

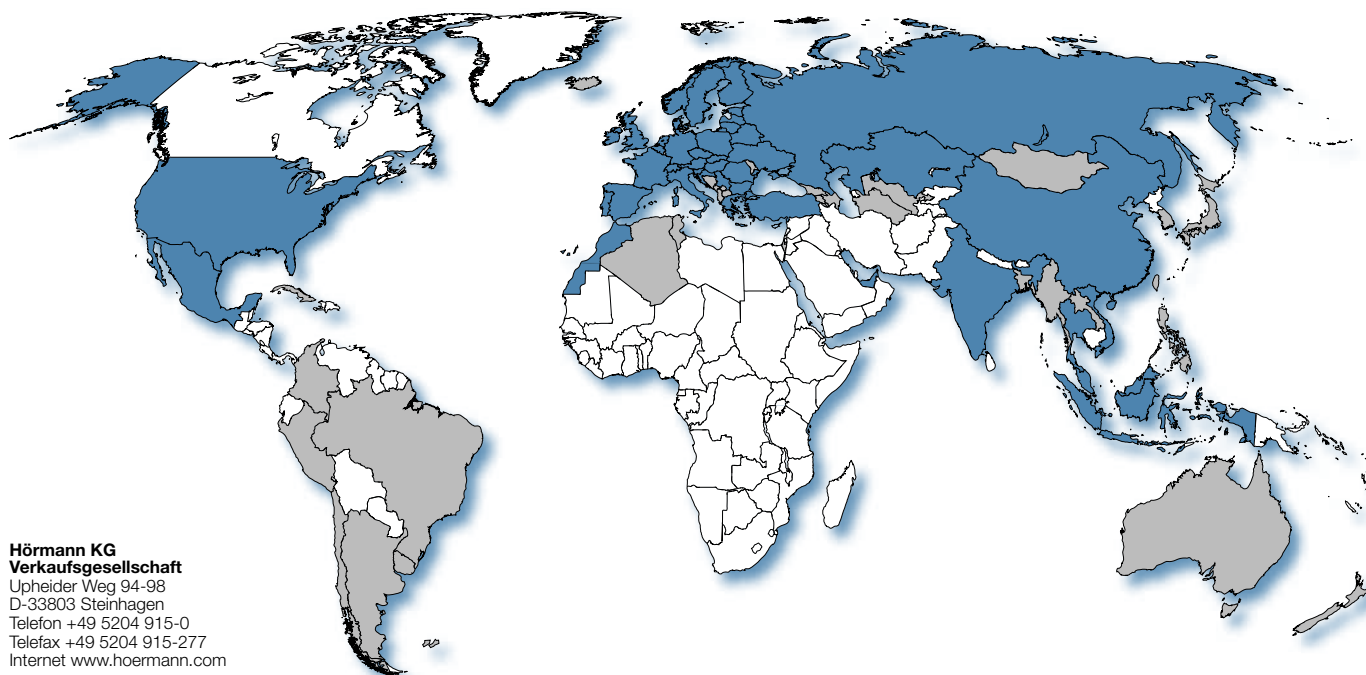
**Price list 01-23 C**

**Valid from 01.06.2023**

# Part C

**Hollow profiled section doors**

# Hörmann international sales companies and sales partners



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**Hörmann international sales companies**

**International sales partners**

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## International sales partners

Albania	Bangladesh	Cuba	Laos	Myanmar	The Philippines
Algeria	Bosnia-Herzegovina	Georgia	Luxembourg	New Zealand	Tunisia
Argentina	Brazil	Iceland	Malta	North Macedonia	Turkmenistan
Armenia	Cambodia	Israel	Moldova	Peru	Uruguay
Australia	Chile	Japan	Mongolia	South Korea	Uzbekistan
Azerbaijan	Colombia	Kosovo	Montenegro	Taiwan	

For more information on our sales companies and sales partners, visit [www.hoermann.com](http://www.hoermann.com).

Our General terms and conditions of sale and delivery valid at the time of the order apply.

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Good reasons to try Hörmann  
steel and aluminium tubular frame  
construction project doors

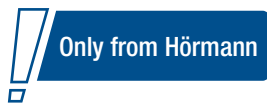


Maximum clear passage width

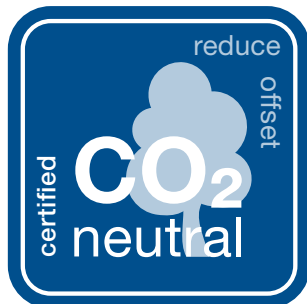
**Steel profile frame**

\* compared to door version with fascia frame

**HÖRMANN**



**WE ACT GREEN.** Our climate protection strategy is based on the annual calculation of the CO<sub>2</sub> balance at our sites, which includes the products they manufacture. And we have been reducing our emissions wherever possible for years. This means we are taking various steps, big and small, to reduce our carbon footprint. We offset the remaining CO<sub>2</sub> emissions through climate protection projects. This makes us the first and only construction component manufacturer to offer CO<sub>2</sub>-neutral garage doors, entrance doors and residential internal doors.



# As standard

For all garage doors, operators, entrance doors, residential internal doors, steel frames, steel doors for residential construction as well as storage space systems



**ClimatePartner**  
**zertifiziertes Produkt**  
[climate-id.com/XNEBKC](https://climate-id.com/XNEBKC)



CO<sub>2</sub>  
berechnen  
reduzieren  
beitragen

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<b>Product descriptions for tubular frame parts made of aluminium</b>	<b>23</b>
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► Please also note the other parts of our dealer price list

**Part A** • Up-and-over garage doors • Sectional doors • Side sliding sectional doors • RollMatic roller garage doors • Door operators  
• ThermoPro entrance doors / ThermoPlus entrance doors • Aluminium entrance doors

**Part B** Sheet steel fire protection • Sheet steel smoke protection • Sheet steel acoustic insulation • Sheet steel security doors • Sheet steel multi-purpose doors • Glazing and top parts for steel doors • Fittings for steel doors • Fitting variants (fixing material) for steel doors • Internal doors • Steel frames  
• Visibility windows

**Part D** Residential internal doors

# Good reasons to try Hörmann aluminium tubular frame construction project doors



Elegant door view without visible frame face

## Frame without face

\* compared to door version with fascia frame

# HÖRMANN

# Tubular frame parts

Made of aluminium and steel

## Technical product overviews

Product overview – aluminium tubular frame parts				From page
T30 / EI <sub>230</sub>				
	HE 311	Single-leaf	Fire-retarding	4
	HE 321	Double-leaf	Fire-retarding	6
	F30 transom lights and side elements HE 331		Fire-retarding and smoke-tight	6
T60				
	HE 611	Single-leaf	High fire resistance	8
	HE 621	Double-leaf	High fire resistance	
	F60 transom lights and side elements HE 631		High fire resistance and smoke-tight	
T90				
	HE 911	Single-leaf	Fire-proof	8
	HE 921	Double-leaf	Fire-proof	
	F90 transom lights and side elements HE 931		Fire-proof and smoke-tight	
Smoke-tight door assemblies				
	A / RS 150	Single-leaf	Smoke-tight	10
	A / RS 250	Double-leaf	Smoke-tight	
	A / RS 350 glazing		Smoke-tight	
Insulated smoke-tight door assemblies				
	A / RS 100	Single-leaf	Insulated and smoke-tight	11
	A / RS 200	Double-leaf	Insulated and smoke-tight	
	A / RS 300 glazing		Insulated and smoke-tight	
Product overview – steel tubular frame parts				From page
T30				
	T30-1 door HL 310 N- and S-Line	Single-leaf	Fire-retarding and smoke-tight	14
	T30-2 door HL 320 N- and S-Line	Double-leaf	Fire-retarding and smoke-tight	15
	F30 transom lights and side elements HL 330		Fire-retarding and smoke-tight	
T90				
	T90-1 door HL 910 F	Single-leaf	Fire-proof and smoke-tight	16
	T90-2 door HL 920 F	Double-leaf	Fire-proof and smoke-tight	
	F90 transom lights and side elements HL 930 F		Fire-proof and smoke-tight	
Smoke-tight door assemblies				
	S / RS 100 door N- and S-Line	Single-leaf	Smoke-tight	17
	S / RS 200 door N- and S-Line	Double-leaf	Smoke-tight	
	S / RS 300 glazing		Smoke-tight	
Classification				From page
Classification / performance characteristics				18

# Aluminium fire-rated doors

With extensive glazing

## T30 product overview, single-leaf

T30






Subject to changes

### Aluminium fire-rated doors

Fire-retarding ready-to-fit door sets, tested and officially approved

#### Resistance class

Type	HE 311 Aluminium	HE 311 with aluminium frame without face, 2-part	HE 311 Aluminium
			
Fire resistance class	T30	T30	EI <sup>2</sup> 30
Application area	<b>Interior</b>	<b>Interior</b>	<b>Exterior</b>
Approval number	Z-6.20-1898	Z-6.20-1898	0761 - CPR - 0560
Weight	39 kg/m <sup>2</sup>	39 kg/m <sup>2</sup>	54 kg/m <sup>2</sup>
Depth	80 mm		
Viewed width of frame / leaf	150 mm	122.5 mm	150 mm
Viewed width of standard bottom section	150 mm		
Optional bottom section height	105 mm		
Rails	100 mm		
Crossed rails	○	○	○
Extension profiles	25, 50, 100, 150 mm	–	25, 50, 100, 150 mm

#### Size range

Nominal size (for version with frame)	Width	535 – 1430 mm	–	–
	Height	1705 – 2965 mm	–	–
Overall frame dimension	Width	605 – 1500 mm	788 – 1415 mm	605 – 1500 mm
	Height	1740 – 3920 mm	1710 – 2500 mm	1740 – 3000 mm
Clear passage	Height	1670 – 3850 mm	1667 – 2457 mm	1670 – 2930 mm
	(90° opening) Width	391 – 1286 mm	634 – 1261 mm	391 – 1286 mm
	(180° opening) Width	465 – 1360 mm	465 – 1330 mm	465 – 1360 mm

#### Approved for fitting to

Brickwork	≥ 115	≥ 115	≥ 115
Concrete	≥ 100	≥ 100	≥ 100
Gas concrete	≥ 150	≥ 150	≥ 150
Partition walls	≥ 100	≥ 100	On request

#### Fittings

Overhead door closer TS 5000 with slide rail	From RAM width 1271 mm	–	From RAM width 1271 mm
Overhead door closer HDC 35 with slide rail	Up to RAM width 1270 mm	–	Up to RAM width 1270 mm
Integrated ITS 96 with slide rail	○	●	○
Aluminium 3-way adjustable hinges, 2-part	2	–	2
Aluminium 3-way adjustable hinges, 3-part	○	–	○
Hörmann guide rollers HRB	○	2	○
Aluminium lever handle set D116	●	●	●
Aluminium lever / knob handle set D116 with knob K117	○	○	○
Cylinder	○	○	○
Retractable bottom seal	○	○	○

#### Infills

F30 glass	●	●	–
F30 insulated glass	○	○	●
Panel	○	○	○
Glass / panel combination	○	○	○

#### In this price list from page

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# Aluminium fire-rated doors

With extensive glazing

## T30 product overview, single-leaf

T30






Subject to changes

### Aluminium fire-rated doors

Fire-retarding ready-to-fit door sets, tested and officially approved

#### Resistance class

Type	HE 311 Aluminium	HE 311 with aluminium frame without face, 2-part	HE 311 Aluminium
			
Fire resistance class	T30	T30	T30
Application area	Interior	Interior	Exterior
<b>Performance characteristics according to EN 14351-1 / optional extras (see also page 54)</b>			
Smoke protection acc. to DIN 18095	○	○	○
Break-in resistance equipment	RC 2, RC 3	RC 2, RC 3	RC 2, RC 3
Acoustic insulation	$R_{w,P}$ up to 42 dB	$R_{w,P}$ up to 42 dB	$R_{w,P}$ up to 42 dB
Escape door function	○	○	○
Escape door function with break-in resistance equipment RC2 / RC3	○	–	○
Thermal insulation (in $W/m^2 \cdot K$ )			Up to 1.6 $W/m^2 \cdot K$ *
Resistance under wind load			Class C3 / B3
Water tightness under heavy rain			Up to class 5A
Air permeability			Up to Class 3
Differential climate behaviour			Class 2(d) / 2(e)
Operating forces			Up to Class 3
<b>In this price list from page</b>	70		

\* depending on size and glazing

#### Notice:

- Doors with steel frame or frame without face are only possible with the glazing bead arrangement on the hinge side (opening inwards)!

- = Optional
- = Standard

#### ● Fast-track programme for HE 311 doors:

- Standard version in surface finish White (RAL 9016), optional surface finishes available in DB 703, E6 / EV 1, RAL 7016, RAL 9005, RAL 9006 and RAL 9007
- With standard glazing and silver-coloured standard fittings
- Max. element height 2620 mm (with solid transom light 3000 mm)
- Max. element width 1500 mm, with 1 side element 2480 mm, with 2 side elements 3460 mm
- Marked accessories

#### ● Fast-track programme for HE 331 transom lights and side elements:

- Transom lights max. 2600 × 1000 mm
- Side elements max. 1480 × 2620 mm as a single door set
- Transom lights delivered as a door set, side elements unconstructed:
  - Standard version in surface finish White (RAL 9016), optional surface finishes available in DB 703, E6 / EV 1, RAL 7016, RAL 9005, RAL 9006 and RAL 9007
  - With standard glazing and silver-coloured standard fittings
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm
- Marked accessories

# Aluminium fire-rated doors

With extensive glazing

## T30 product overview, double-leaf and fixed glazing

T30



F30



Subject to changes

### Aluminium fire-rated doors

Fire-retarding ready-to-fit door sets, tested and officially approved

#### Resistance class

Type	HE 321 Aluminium	HE 321 with aluminium frame without face, 2-part	HE 321 Aluminium	HE 331 Aluminium
Fire resistance class	T30	T30	EI <sup>2</sup> 30	T30
Application area	Interior	Interior	Exterior	Interior
Approval number	Z-6.20-1898	Z-6.20-1898	0761 - CPR - 0560	Z-19.14-1091
Weight	39 kg/m <sup>2</sup>	39 kg/m <sup>2</sup>	54 kg/m <sup>2</sup>	39 kg/m <sup>2</sup>
Depth	80 mm			
Viewed width of frame / leaf	150 mm	122.5 mm	150 mm	70 mm
Viewed width of standard bottom section	150 mm			
Optional bottom section height	105 mm			70, 105 mm
Rails	100 mm			
Crossed rails	○	○	○	○
Extension profiles	25, 50, 100, 150 mm	–	25, 50, 100, 150 mm	25, 50, 100, 150 mm

#### Size range

Nominal size (for version with frame)	Width	1285–2930 mm	–	–	–
	Height	1705–2965 mm	–	–	–
Overall frame dimension	Width	1355–3000 mm	1538–2810 mm	1355–3000 mm	Unlimited
	Height	1740–4000 mm	1710–2500 mm	1740–3000 mm	max. 4960 mm max. 4500 mm (with door)
Clear passage	Height	1670–3930 mm	1667–2457 mm	1670–2930 mm	–
	(90° opening) Width	1067–2712 mm	1316–2588 mm	1670–2712 mm	–
	(180° opening) Width	1215–2860 mm	1215–2725 mm	1215–1860 mm	–

#### Approved for fitting to

Brickwork	≥ 115	≥ 115	≥ 115	≥ 115
Concrete	≥ 100	≥ 100	≥ 100	≥ 100
Gas concrete	≥ 150	≥ 150	≥ 150	≥ 150
Partition walls	≥ 100	≥ 100	On request	≥ 100

#### Fittings

Overhead door closer TS 5000 with slide rail	●	–	●	–
Overhead door closer HDC 35 with slide rail	–	–	–	–
Integrated ITS 96 with slide rail	○	●	○	–
Aluminium 3-way adjustable hinges, 2-part	4	–	4	–
Aluminium 3-way adjustable hinges, 3-part	○	–	○	–
Hörmann guide rollers HRB	○	4	○	–
Aluminium lever handle set D116	●	●	●	–
Aluminium lever / knob handle set D116 with knob K117	○	○	○	–
Cylinder	○	○	○	–
Retractable bottom seal	○	○	○	–

#### Infills

F30 glass	●	●	–	●
F30 insulated glass	○	○	●	○
Panel	○	○	○	○
Glass / panel combination	○	○	○	○

#### In this price list from page

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# Aluminium fire-rated doors

With extensive glazing

## T30 product overview, double-leaf and fixed glazing



Subject to changes

Aluminium fire-rated doors				
Fire-retarding ready-to-fit door sets, tested and officially approved				
Resistance class				
Type	HE 321 Aluminium	HE 321 with aluminium frame without face, 2-part	HE 321 Aluminium	HE 331 Aluminium
Fire resistance class	T30	T30	T30	T30
Application area	Interior	Interior	Exterior	Interior
Performance characteristics according to EN 14351-1 / optional extras (see also page 54)				
Smoke protection acc. to DIN 18095	○	○	○	○
Break-in resistance equipment	RC2	RC2	RC2	RC 2, RC 3
Acoustic insulation	$R_{w,P}$ up to 42 dB	$R_{w,P}$ up to 42 dB	$R_{w,P}$ up to 42 dB	$R_{w,P}$ up to 44 dB
Escape door function	○	○	○	–
Escape door function with break-in resistance equipment RC 2	○	–	○	–
Thermal insulation (in $W/m^2 \cdot K$ )			Up to 1.6 $W/m^2 \cdot K$ *	
Resistance under wind load			Class C2 / B2	
Water tightness under heavy rain			Up to class 3A	
Air permeability			Up to Class 3	
Differential climate behaviour			Class 2(d) / 2(e)	
Operating forces			Class 2	–
In this price list from page		74		84

\* depending on size and glazing

### Notice:

- Doors with steel frame or frame without face are only possible with the glazing bead arrangement on the hinge side (opening inwards)!

- = Optional
- = Standard

### ● Fast-track programme for HE 321 doors:

- Standard version in surface finish White (RAL 9016), optional surface finishes available in DB 703, E6 / EV 1, RAL 7016, RAL 9005, RAL 9006 and RAL 9007
- With standard glazing and silver-coloured standard fittings
- Max. element height 2620 mm (with solid transom light 3000 mm)
- Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm
- Marked accessories

### ● Fast-track programme for HE 331 transom lights and side elements:

- Transom lights max. 2600 × 1000 mm
- Side elements max. 1480 × 2620 mm as a single door set
- Transom lights delivered as a door set, side elements unconstructed:
  - Standard version in surface finish White (RAL 9016), optional surface finishes available in DB 703, E6 / EV 1, RAL 7016, RAL 9005, RAL 9006 and RAL 9007
  - With standard glazing and silver-coloured standard fittings
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm
- Marked accessories

# Aluminium fire-rated doors

With extensive glazing

## Product overview



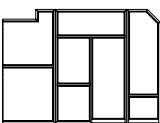


Subject to changes

### Aluminium fire-rated doors

Fire-retarding ready-to-fit door sets, tested and officially approved

#### Resistance class

Type	HE 611, HE 911 Aluminium	HE 621 / HE 921 Aluminium	HE 631 / HE 931 Aluminium
			
Fire resistance class	T60 / T90	T60 / T90	F60 / F90
Application area	<b>Interior</b>	<b>Interior</b>	<b>Interior</b>
Approval number	T60 Z-6.20-1839 T90 Z-6.20-1966	Z-6.20-1839 Z-6.20-1966	Z-19.14-1667 Z-19.14-1591
Weight	T60: 57 kg/m², T90: 65 kg/m²		
Depth	80 mm		
Viewed width of frame / leaf	150 mm	150 mm	70 mm
Viewed width of standard bottom section	150 mm		
Optional bottom section height	105 mm	105 mm	70, 105 mm
Rails	100 mm		
Crossed rails	–		
Extension profiles	25, 50, 100, 150 mm	25, 50, 100, 150 mm	25, 50, 100, 150 mm

#### Size range

Overall frame dimension	Width	605 – 1500 mm	1355 – 2850 mm	Unlimited
	Height	1740 – 2800 mm	1740 – 2800 mm	max. 4500 mm max. 4000 mm (with door)
Clear passage	Height	1670 – 2730 mm	1670 – 2730 mm	–
	(90° opening) Width	391 – 1286 mm	1067 – 2562 mm	–
	(180° opening) Width	465 – 1360 mm	1215 – 2710 mm	–

#### Approved for fitting to

Brickwork	≥ 240	≥ 240	≥ 240
Concrete	≥ 140	≥ 140	≥ 140
Gas concrete	≥ 240	≥ 240	≥ 240
F90 partition walls	≥ 100	≥ 100	≥ 100

#### Fittings

Overhead door closer TS 5000 with slide rail	From RAM width 1271 mm	●	–
Overhead door closer HDC 35 with slide rail	Up to RAM width 1270 mm	–	–
Aluminium 3-way adjustable hinges, 2-part	–	–	–
Aluminium 3-way adjustable hinges, 3-part	3	6	–
Hörmann guide rollers HRB	○	○	–
Aluminium lever handle set D116	●	●	–
Aluminium lever / knob handle set D116 with knob K117	○	○	–
Cylinder	○	○	–
Retractable bottom seal	○	○	–

#### Infills

F60 / F90 glass	●	●	●
F60 / F90 panel	○	○	○
Glass / panel combination	○	○	○

#### Performance characteristics / optional extras

Smoke protection acc. to DIN 18095	○	○	–
Break-in resistance equipment	RC 2, RC 3	RC2	RC 2, RC 3
Acoustic insulation	R <sub>w,P</sub> up to 43 dB	R <sub>w,P</sub> up to 45 dB	R <sub>w,P</sub> up to 43 dB
Escape door function	○	○	–
Escape door function with break-in resistance equipment RC 2	○	○	–
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# Good reasons to try Hörmann steel tubular frame construction project doors



Particularly narrow door view

## **S-Line system**

**HÖRMANN**

# Aluminium smoke-tight door assemblies

With extensive glazing

## Product overview



Subject to changes

### Aluminium smoke-tight door assemblies

Smoke-tight, ready-to-fit door sets DIN 18095

#### Resistance class

Type	A / RS 150 Aluminium	A / RS 250 Aluminium	A / RS 350 Aluminium
Application area	Interior	Interior	Interior
Weight	20 kg/m²		
Depth	50 mm		
Viewed width of frame / leaf	150 mm	150 mm	70 mm
Viewed width of standard bottom section	150 mm		
Optional bottom section height	105 mm	105 mm	70, 105 mm
Rails	100 mm		
Crossed rails	○	○	○
Extension profiles	25, 50 mm	25, 50 mm	25, 50 mm

#### Size range

Nominal size	Width	535 – 1430 mm	1285 – 2930 mm	–
	Height	1705 – 2965 mm	1705 – 2965 mm	–
Overall frame dimension	Width	605 – 1500 mm	1355 – 3000 mm	Unlimited max. 4500 mm
	Height	1740 – 3000 mm	1740 – 3000 mm	
Clear passage	Height	1670 – 2930 mm	1670 – 2930 mm	–
	(90° opening) Width	421 – 1316 mm	1127 – 2772 mm	–
	(180° opening) Width	465 – 1360 mm	1215 – 2860 mm	–

#### Approved for fitting to

Brickwork	≥ 115	≥ 115	≥ 115
Concrete	≥ 100	≥ 100	≥ 100
Gas concrete	≥ 150	≥ 150	≥ 150
Partition wall	≥ 100	≥ 100	≥ 100

#### Fittings

Overhead door closer TS 5000 with slide rail	From RAM width 1271 mm	●	–
Overhead door closer HDC 35 with slide rail	Up to RAM width 1270 mm	–	–
Integrated ITS 96 with slide rail	○	○	–
Aluminium 3-way adjustable hinges, 2-part	2	4	–
Aluminium 3-way adjustable hinges, 3-part	○	○	–
Hörmann guide rollers HRB	○	○	–
Aluminium lever handle set D116	●	●	–
Aluminium lever / knob handle set D116 with knob K117	○	○	–
Cylinder	○	○	–
Retractable bottom seal	●	●	–

#### Infills

Laminated safety glass, 6 or 8 mm	●	●	●
Insulated glass	○	○	○
Panel	○	○	○
Glass / panel combination	○	○	○

#### Optional extras

Acoustic insulation	R <sub>w,P</sub> up to 37 dB	R <sub>w,P</sub> up to 38 dB	R <sub>w,P</sub> up to 42 dB
Escape door function	○	○	○
In this price list from page	110	114	122



# Aluminium smoke-tight door assemblies

With extensive glazing, insulated

## Product overview



Subject to changes

Aluminium smoke-tight door assemblies				
Smoke-tight, ready-to-fit door sets DIN 18095				
Resistance class				
Type	A / RS 100 Aluminium 		A / RS 100 with aluminium frame without face, 2-part 	
Application area	Interior	Exterior	Interior	
Weight	35 kg/m²			
Depth	80 mm			
Viewed width of frame / leaf	150 mm	150 mm	122.5 mm	
Viewed width of standard bottom section	150 mm			
Optional bottom section height	105 mm			
Rails	100 mm			
Crossed rails	○	○	○	
Extension profiles	25, 50, 100, 150 mm	25, 50, 100, 150 mm	–	
Size range				
Nominal size (for version with frame)	Width	535 – 1430 mm	–	–
	Height	1705 – 2965 mm	–	–
Overall frame dimension	Width	605 – 1500 mm	605 – 1500 mm	788 – 1415 mm
	Height	1740 – 3000 mm	1740 – 3000 mm	1710 – 2500 mm
Clear passage	Height	1670 – 2930 mm	1670 – 2930 mm	1667 – 2457 mm
	(90° opening) Width	391 – 1286 mm	391 – 1286 mm	634 – 1261 mm
	(180° opening) Width	465 – 1360 mm	465 – 1360 mm	465 – 1330 mm
Approved for fitting to				
Brickwork	≥ 115	≥ 115	≥ 115	
Concrete	≥ 100	≥ 100	≥ 100	
Gas concrete	≥ 150	≥ 150	≥ 150	
Partition wall	≥ 100	On request	≥ 100	
Fittings				
Overhead door closer TS 5000 with slide rail	From RAM width 1271 mm	From RAM width 1271 mm	–	
Overhead door closer HDC 35 with slide rail	Up to RAM width 1270 mm	Up to RAM width 1270 mm	–	
Integrated ITS 96 with slide rail	○	○	●	
Aluminium 3-way adjustable hinges, 2-part	2	2	–	
Aluminium 3-way adjustable hinges, 3-part	○	○	–	
Hörmann guide rollers HRB	○	○	2	
Aluminium lever handle set D116	●	●	●	
Aluminium lever / knob handle set D116 with knob K117	○	○	○	
Cylinder	○	○	○	
Retractable bottom seal	●	●	●	
Infills				
Insulated glass	●	●	●	
Panel	○	○	○	
Glass / panel combination	○	○	○	
Performance characteristics in accordance with EN 14351-1 / optional extras				
Break-in resistance equipment	RC 2, RC 3	RC 2, RC 3	RC 2, RC 3	
Acoustic insulation	R <sub>w,P</sub> up to 38 dB	R <sub>w,P</sub> up to 38 dB	R <sub>w,P</sub> up to 38 dB	
Escape door function	○	○	○	
Escape door function with break-in resistance equipment RC 2 / RC3	○	○	–	
Thermal insulation (in W/m²·K)		Up to 1.6 W/m²·K *		
Resistance under wind load		Class C3 / B3		
Water tightness under heavy rain		Up to class 5A		
Air permeability		Class 3		
Differential climate behaviour		Class 2(d) / 2(e)		
Operating forces		Class 3		
In this price list from page			130	

# Aluminium smoke-tight door assemblies

With extensive glazing, insulated

## Product overview



Subject to changes

### Aluminium smoke-tight door assemblies

Smoke-tight, ready-to-fit door sets DIN 18095

#### Resistance class

Type	A / RS 200 Aluminium		A / RS 200 with aluminium frame without face, 2-part	A / RS 300 Aluminium
Application area	Interior	Exterior	Interior	Interior
Weight	35 kg/m²			
Depth	80 mm			
Viewed width of frame / leaf	150 mm	150 mm	122.5 mm	70 mm
Viewed width of standard bottom section	150 mm			
Optional bottom section height	105 mm			70, 105 mm
Rails	100 mm			
Crossed rails	○	○	○	○
Extension profiles	25, 50, 100, 150 mm	25, 50, 100, 150 mm	–	25, 50, 100, 150 mm

#### Size range

Nominal size	Width	1285 – 2930 mm	–	–	–
(for version with frame)	Height	1705 – 2965 mm	–	–	–
Overall frame dimension	Width	1355 – 3000 mm	1355 – 3000 mm	1538 – 2810 mm	Unlimited max. 4500 mm
	Height	1740 – 3000 mm	1740 – 3000 mm	1710 – 2500 mm	
Clear passage	Height	1670 – 2930 mm	1670 – 2930 mm	1667 – 2457 mm	–
(90° opening)	Width	1067 – 2712 mm	1067 – 2712 mm	1316 – 2588 mm	–
(180° opening)	Width	1215 – 2860 mm	1215 – 2860 mm	1215 – 2725 mm	–

#### Approved for fitting to

Brickwork	≥ 115	≥ 115	≥ 115	≥ 115
Concrete	≥ 100	≥ 100	≥ 100	≥ 100
Gas concrete	≥ 150	≥ 150	≥ 150	≥ 150
Partition wall	≥ 100	On request	≥ 100	≥ 100

#### Fittings

Overhead door closer TS 5000 with slide rail	●	●	–	–
Overhead door closer HDC 35 with slide rail	–	–	–	–
Integrated ITS 96 with slide rail	○	○	●	–
Aluminium 3-way adjustable hinges, 2-part	4	4	–	–
Aluminium 3-way adjustable hinges, 3-part	○	○	–	–
Hörmann guide rollers HRB	○	○	4	–
Aluminium lever handle set D116	●	●	●	–
Aluminium lever / knob handle set D116 with knob K117	○	○	○	–
Cylinder	○	○	○	–
Retractable bottom seal	●	●	●	–

#### Infills

Insulated glass	●	●	●	●
Panel	○	○	○	○
Glass / panel combination	○	○	○	○

#### In this price list on page

134

144

#### Notice:

- Doors with steel frame or frame without face are only possible with the glazing bead arrangement on the hinge side (opening inwards)!

○ = Optional  
● = Standard

# Aluminium smoke-tight door assemblies

With extensive glazing, insulated

## Product overview






Subject to changes

### Aluminium smoke-tight door assemblies

Smoke-tight, ready-to-fit door sets DIN 18095

#### Resistance class

Type	A / RS 200 Aluminium		A / RS 200 with aluminium frame without face, 2-part	A / RS 300 Aluminium
				
Application area	Interior	Exterior	Interior	Interior
Performance characteristics in accordance with EN 14351-1 / optional extras				
Break-in resistance equipment	RC2	RC2	RC2	RC 2, RC 3
Acoustic insulation	R <sub>w,P</sub> up to 40 dB	R <sub>w,P</sub> up to 40 dB	R <sub>w,P</sub> up to 40 dB	R <sub>w,P</sub> up to 45 dB
Escape door function	○	○	○	–
Escape door function with break-in resistance equipment RC 2	○	○	–	–
Thermal insulation (in W/m²·K)		Up to 1.6 W/m²·K *		
Resistance under wind load		Class C2 / B2		
Water tightness under heavy rain		Up to class 3a		
Air permeability		Class 3		
Differential climate behaviour		Class 2(d) / 2(e)		
Operating forces		Class 2		
In this price list on page	134			144

#### Notice:

- Doors with steel frame or frame without face are only possible with the glazing bead arrangement on the hinge side (opening inwards)!

○ = Optional  
● = Standard

\* depending on size and glazing

# Steel fire-rated doors





With extensive glazing

## Product overview

T30



Subject to changes

Steel fire-rated doors				
Fire-retarding and smoke-tight, ready-to-fit door sets, tested and officially approved				
Resistance class	T30 fire-retarding and smoke-tight			
Type	HL 310 Steel	HL 310 S-Line	HL 320 Steel	HL 320 S-Line
Doors with glazing and / or panels	Steel profiles Galvanized		Steel profiles Galvanized	
				
Rails	Glass-dividing 105	90	105	90
Extensions	63, 127, 190	59, 116, 174	63, 127, 190	59, 116, 174
Size range				
Nominal size (With frame type)	Width	499 – 1485 mm	499 – 1485 mm	1249 – 2844 mm
	Height	1687 – 2278 mm	1687 – 2278 mm	1687 – 2278 mm
Overall frame dimension	Width	605 – 1600 mm	567 – 1562 mm	1355 – 3050 mm
	Height	1740 – 3020 mm	1721 – 3001 mm	1740 – 3020 mm
Clear passage	Width	437 – 1432 mm	437 – 1432 mm	1187 – 2882 mm
	Height	1656 – 2936 mm	1656 – 2930 mm	1656 – 2836 mm
Approved for fitting to				
Brickwork	≥ 115	≥ 115	≥ 115	≥ 115
Concrete	≥ 100	≥ 100	≥ 100	≥ 100
Gas concrete	≥ 150	≥ 150	≥ 150	≥ 150
F90 partition walls	≥ 100	≥ 100	≥ 100	≥ 100
Door bottom edge				
Semi-circular threshold	●	●	●	●
Retractable bottom seal	●	●	●	●
Additional functions				
Smoke-tight acc. to DIN 18095	○	○	○	○
Acoustic-rated acc. to DIN EN ISO 140-3, 717-1	$R_{w,P} = 42 \text{ dB}$	$R_{w,P} = 42 \text{ dB}$	$R_{w,P} = 42 \text{ dB}$	$R_{w,P} = 42 \text{ dB}$
Break-in-resistant according to DIN EN 1627	RC 2	RC 2	RC 2	RC 2
Infills				
Glass	●	●	●	●
Panel	●	●	●	●
Glass / panel combination	●	●	●	●
Approval number				
	Z-6.20-2148	Z-6.20-2148	Z-6.20-2148	Z-6.20-2148
In this price list from page		242	244	

- = Optional  
● = Standard



# Steel fire-rated doors

With extensive glazing

## Product overview

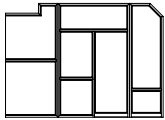
F30

g30



Subject to changes

Hollow profiled  
section doors overview

Steel fire-rated doors			
Fire-retarding and smoke-tight, ready-to-fit door sets, tested and officially approved			
Resistance class		F30 fire-retarding and smoke-tight	
Type		HL 330 Steel	HL 330 S-Line
Doors with glazing and / or panels		Steel profiles Galvanized	Steel profiles Galvanized
			
Rails	Glass-dividing	105	90
Extensions		63, 127, 190	59, 116, 174
Size range			
Nominal size (With frame type)	Width		
	Height	Max. 3500 <sup>1)</sup>	Max. 3500 <sup>1)</sup>
Overall frame dimension	Width	Unlimited	Unlimited
	Height	max. 4500 <sup>2)</sup>	max. 4500 <sup>2)</sup>
Clear passage	Width	–	–
	Height	–	–
Approved for fitting to			
Brickwork		≥ 115	≥ 115
Concrete		≥ 100	≥ 100
Gas concrete		≥ 150	≥ 150
F90 partition walls		≥ 100	≥ 100
Door bottom edge			
Semi-circular threshold		–	–
Retractable bottom seal		–	–
Additional functions			
Smoke-tight acc. to DIN 18095		●	●
Acoustic-rated acc. to DIN EN ISO 140-3, 717-1		R <sub>w,P</sub> = 44 dB	R <sub>w,P</sub> = 44 dB
Break-in-resistant according to DIN EN 1627		RC 2	RC 2
Infills			
Glass		●	●
Panel		●	●
Glass / panel combination		●	●
Approval number			
		Z-19.14-1037	Z-19.14-1037
In this price list on page		250	

1) Door with top part

2) As glazing without door 4960 mm RAM, as glazing with door 4500 mm RAM

○ = Optional

● = Standard

### Note:

Maximum profile length for vertical / horizontal profile constructions is 5800 mm

# Steel fire-rated doors

With extensive glazing

## Product overview

T90

F90



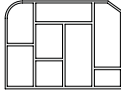
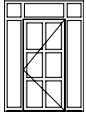
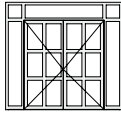
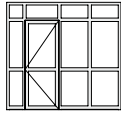


Subject to changes

### Steel fire-rated doors

Fire-proof and smoke-tight, ready-to-fit door sets, tested and officially approved.

#### Resistance class T90 / F90 fire-proof

Type	HL 910 F Steel	HL 920 F Steel	HL 930 F Steel
Doors and fixed elements with glazing			
Doors can be combined with fixed elements, with any rail division			
Chamfers	–	–	●
Norman arches	–	–	●
Recesses	–	–	●
Angles	–	–	–
Extensions	●	●	●
<b>Size range</b>			
Nominal size	Width	1600	2530
	Width with side element	3540	4540
	Height	2590	2610
	Height with transom light	4020	4020
	Height with transom light and side element	3520	3520
Overall frame dimension	Width	700 – 1560	1400 – 2490
	Width with side element	3500	4500
	Height	2570	2570
	Height with transom light	4000	4000
	Height with transom light and side element	3500	3500
Clear passage	Width	560 – 1400	1260 – 2350
	Height	1655 – 2500	1655 – 2500
<b>Door leaf</b>			
Depth	70	70	70
View	130	130 / 150	70 / 90
Bottom section height	70 – 190	70 – 190	70 – 190
<b>Approved for fitting to</b>			
Brickwork	≥ 240	≥ 240	≥ 240
Concrete	≥ 140	≥ 140	≥ 140
Gas concrete	≥ 240	≥ 240	≥ 240
F90 partition walls	≥ 100	≥ 100	≥ 100
<b>Infills</b>			
Pyrostop max. 90 – 102	1354 × 2370	1354 × 2370	1350 × 2800
Pyrostop Aestuvert panel (only for door leaf)	1304 × 2184	1304 × 2184	
Glass insert	Wet glazing NV	●	●
	Dry glazing TV	●	●
<b>Approval number</b>			
	Z-6.20-1881	Z-6.20-1881	Z-19.14-1973
<b>In this price list from page</b>		260	264

○ = Optional

● = Standard





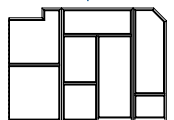
# Steel smoke-tight door assemblies

With extensive glazing

## Product overview



Subject to changes

Steel smoke-tight door assemblies							
Smoke-tight, ready-to-fit door sets DIN 18095							
Type		S / RS 100 Steel	S / RS 100 S-Line	S / RS 200 Steel	S / RS 200 S-Line	S / RS 300 Steel	S / RS 300 S-Line
Doors with glazing and / or panels		Galvanized steel profiles	Galvanized steel profiles	Galvanized steel profiles	Galvanized steel profiles	Steel profiles Galvanized	Steel profiles Galvanized
							
Rails	Glass-dividing	105	90	105	90	105	90
Chamfers, recesses, angles		–	–	–	–	•	•
Extensions		63, 127, 190	59, 116, 174	63, 127, 190	59, 116, 174	63, 127, 190	59, 116, 174
Size range							
Nominal size (mm) (With frame type)	Width	539 – 1434	539 – 1434	1251 – 2786	1251 – 2786	–	
	Height	1707 – 2968	1707 – 2968	1707 – 2968	1707 – 2968	4000 *	
Overall frame dimension (mm)	Width	643 – 1538	605 – 1500	1355 – 2890	1317 – 2852	Unlimited	
	Height	1759 – 3020	1740 – 3001	1759 – 3020	1740 – 3001	Observe statics	
Clear passage (mm)	Width	475 – 1370	475 – 1370	1187 – 2722	1187 – 2722	–	
Fascia frame	Height	1675 – 2936	1675 – 2936	1675 – 2936	1675 – 2936	–	
Clear passage (mm)	Width	475 – 1370	475 – 1370	1187 – 2722	1187 – 2722	–	
Steel frame	Height	1675 – 2936	1675 – 2936	1675 – 2936	1675 – 2936	–	
For fitting to							
Brickwork		≥ 115	≥ 115	≥ 115	≥ 115	≥ 115	≥ 115
Concrete		≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
Gas concrete		≥ 150	≥ 150	≥ 150	≥ 150	≥ 150	≥ 150
F 90 partition walls		≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
Door bottom edge							
Semi-circular threshold		•	•	•	•	–	–
Retractable bottom seal		•	•	•	•	–	–
Additional functions							
Acoustic-rated DIN EN ISO 140-3, 717-1		R <sub>w,P</sub> = 42 dB	R <sub>w,P</sub> = 42 dB	R <sub>w,P</sub> = 42 dB	R <sub>w,P</sub> = 42 dB	R <sub>w,P</sub> = 44 dB	R <sub>w,P</sub> = 44 dB
Break-in-resistant DIN EN 1627		RC 2	RC 2	RC 2	RC 2	RC 2	RC 2
Infills							
Glass		•	•	•	•	•	•
Panel		•	•	•	•	•	•
Glass / panel combination		•	•	•	•	•	•
In this price list from page		272		274		280	

\* Door with top part

### Note:

Maximum profile length for vertical / horizontal profile constructions is 5800 mm

# Tubular frame construction project doors

## Classification / performance characteristics



Subject to changes

### Performance characteristics and product features

**Fire-rated doors are regulated by the following standards in Germany:**

- Internal doors: DIN 4102 (national regulation)
- External doors: DIN EN 16034 and DIN EN 14351-1 (European regulation)

**Fire resistance classes according to DIN 4102 and DIN EN 13501:**

**Fire-rated doors are classified into fire resistance classes according to their fire resistance duration.**

**The classification rules are currently regulated in Germany by the German standard DIN 4102 and the European standard DIN EN 13501-2.**

Building inspection requirements for door bottom edges	Classification in Germany			European performance characteristics	
	Internal doors			Without Smoke protection	with Smoke protection
	Fire resistance duration (minutes)	Fire resistance class (DIN 4102)	Smoke protection (DIN 18095)		
Fire-retarding	≥ 30	T30	–	El <sub>2</sub> 30-S <sub>a</sub> -C5	
High fire resistance	≥ 60	T60	–	El <sub>2</sub> 60-S <sub>a</sub> -C5	
Fire-proof	≥ 90	T90	–	El <sub>2</sub> 90-S <sub>a</sub> -C5	
Fire-retarding and smoke-tight	≥ 30	T30	RS		El <sub>2</sub> 30-S <sub>200</sub> -C5
High fire resistance and smoke-tight	≥ 60	T60	RS		El <sub>2</sub> 60-S <sub>200</sub> -C5
Fire-proof and smoke-tight	≥ 90	T90	RS		El <sub>2</sub> 90-S <sub>200</sub> -C5
Sealed			–		S <sub>a</sub>
Sealed and self-closing			–		S <sub>a</sub> -C5
Smoke-tight and self-closing			RS		S <sub>200</sub> -C5

### Classification of European fire-rated doors



El <sub>2</sub> 30-S <sub>a</sub> -C5	Fire protection 30 minutes / sealed / self-closing
El <sub>2</sub> 60-S <sub>a</sub> -C5	Fire protection 60 minutes / sealed / self-closing
El <sub>2</sub> 90-S <sub>a</sub> -C5	Fire protection 90 minutes / sealed / self-closing
El <sub>2</sub> 30-S <sub>200</sub> -C5	Fire protection 30 minutes / smoke-tight / self-closing
El <sub>2</sub> 60-S <sub>200</sub> -C5	Fire protection 60 minutes / smoke-tight / self-closing
El <sub>2</sub> 90-S <sub>200</sub> -C5	Fire protection 90 minutes / smoke-tight / self-closing

### Note on complete construction product for external doors:

External doors may only be placed on the market as a fully functional product.

A complete product consists of a door set (door leaf + frame) and fittings (hinges, lock, lever handle, profile cylinder, closing devices, seals, lock plate, as well as glazings). If fittings are omitted and the tested performance characteristics required by the respective regulations are not met as a result, the product may not be provided with a "CE marking" and placed on the market.



In the planning, dimensioning and execution of tubular frame construction project doors, building law requirements must be observed which are based on laws and regulations such as the state building regulations (LBO) with lists of technical building regulations.



### Performance characteristics and product features according to DIN 16034



#### Fire protection

- Fire protection is the ability of a door to maintain the partition and thermal insulation for a certain period of time in the event of a fire
- The fire resistance duration is determined in tests according to DIN EN 1634-1

Classification takes place according to DIN EN 13501-2 with the following designations:

Classification	Description
<b>E</b>	<b>Partition</b>
<b>I<sub>2</sub></b>	<b>Thermal insulation (for fire-rated doors with index 2)</b>
<b>30 / 60 / 90</b>	<b>Resistance in minutes</b>

#### Partition (E)

- Ability of the fire protection element to prevent the passage of flames

#### Thermal insulation (I)

- Ability of the fire protection element to limit the surface temperature rise in relation to the initial temperature on the side facing away from the fire to max. 140 K on average at certain measuring points or max. 180 K/360 K at individual measuring points.
- The indices, e.g. 2, stand for the different positions of the evaluated measuring point.



#### Smoke-tightness

- Smoke tightness refers to the ability of the smoke protection element to reduce the passage of smoke with an air pressure of up to 50 Pa to an approved leakage rate.
- The leakage rate is the essential parameter for the tightness of a smoke-tight door and must not exceed 20 m³/h for single-leaf doors and 30 m³/h for double-leaf doors.

Classification takes place according to DIN EN 13501-2 with the following designations:

Classification	Description	Testing
<b>S<sub>a</sub></b>	<b>Sealed by seal arranged on 3 sides</b>	<b>Testing at room temperature</b>
<b>S<sub>200</sub></b>	<b>Smoke protection by seal arranged on 4 sides (Bottom weather seal)</b>	<b>Testing at room temperature and at 200°C Flue gas temperature in the test chamber.</b>

- If smoke protection is required, please specify on the order.
- Use a locking cylinder



#### Self-closing (C)

- Self-closing is the ability of an open door to close fully and automatically using stored energy. Self-closing may also be carried out by an electrical current if this is backed up with stored energy in the event of a power failure.
- The property should be classified as "C"
- Depending on the result of a test of the durability of the self-closing function against quality loss, the classification can be supplemented by a number from 0 to 5.


# Tubular frame construction project doors

## Notes



Subject to changes

### Performance characteristics and product features according to DIN 14351-1

 The performance characteristics only apply with the corresponding equipment!

The use of tubular frame construction project doors as an external door is possible. However, project-related performance characteristics, e.g. with regard to resistance to wind, water tightness under heavy rain, transmission of heat, differential climate behaviour, ability to release and air permeability, may not be met depending on the equipment, accessories and door version!

Performance characteristics can therefore only be specified to a limited extent.

In many cases, construction measures (e.g. protected fitting position due to canopy and / or side fascia, walkway or without direct weathering) can be used to reduce the requirement profile of external doors.

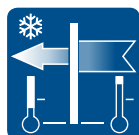
#### Fitting position

- No weathering (e.g. underground garage, stairwells in multi-storey car parks, ...)
- Protected fitting position – door is protected against the weather due to a canopy and / or side fascia, walkway
- Unprotected fitting position – door is directly exposed to the weather



#### Water tightness under heavy rain

- Tested in accordance with DIN 1027
- The water tightness under heavy rain is described with classes 1A to a maximum of 9A
- The higher the class, the higher the tightness of external doors against rainwater penetrating the room side
- Bottom edge mandatory for water tightness under heavy rain



#### Thermal insulation

- The  $U_D$  value is the thermal insulation value in  $W/(m^2 \cdot K)$  and describes the transmission heat losses via the door
- All specified values according to DIN ISO 10077-1
- For thermal insulation, bottom edge and profile cylinder are mandatory

#### Differential climate behaviour

- External doors are subject to differential climatic loads due to their intended use, i.e. different climatic conditions prevail on the outside and inside of the component.
- Furthermore, higher component temperatures can cause moisture to escape in the form of increased water vapour volumes or liquid.
- The moisture does not only escape from the surfaces, but can also accumulate on the construction itself, usually at the interfaces between different materials, for example on metal separating layers or plastic films.



#### Resistance under wind load

- Tested in accordance with EN 12211
- External doors should also be able to withstand strong wind. The higher the door, the higher the wind load. The wind load to which an external door is exposed also depends on the location of the building.
- Doors are classified according to their wind resistance by means of a combination of letters and numbers, with the letter representing the relative frontal deflection class and the number representing the wind load class.
- For resistance to wind load, a bottom edge is mandatory

#### Air permeability

- The information on air-tightness of external doors enables determining the ventilation heat losses of buildings in the course of thermal proof.
- Local leaks are not assessed separately according to the test standard
- Bottom edge and profile cylinder are mandatory!



#### Operating forces

- Depending on their intended use, external doors must also be able to be operated by children, elderly people or handicapped persons without any difficulty, i.e. they must be able to be opened and closed. For this reason, suitable measures must be taken to ensure that the operating forces or the occurring torques are permanently guaranteed.
- The operating force describes the forces and torques required for opening and closing doors as well as the torque required for locking and closing the door sets by actuating the lock. For doors this can be the knob, in the case of manual operation the lever handle and in the case of finger operation the key shaft (grip of the key).
- Profile cylinder mandatory!



#### Mechanical strength

- Tested in accordance with DIN EN 14608 and DIN EN 14609
- The mechanical strength results from the vertical load and static distortion. This includes unintentionally applying a load to the door leaf, for example by holding it in place during cleaning.
- Torsional loads caused by stopping, trapped or blocked door leaves are also taken into account.



## Notes

Subject to changes

### Important notes for fire-rated doors with further performance characteristics

**dB**

#### Acoustic-rated door sets in accordance with DIN EN ISO 717-1

- Acoustic insulation is only possible with correct planning and version. The overall acoustic insulation is dependent on the surrounding structural components.
- Use a locking cylinder.
- The acoustic insulation of the wall and door must be derived separately for the required and expected acoustic insulation of the component on-site, as it cannot be assumed from the assessed acoustic rating  $R_W$  or  $R$  of the door alone.
- All of the indicated acoustic insulation values are laboratory values.
- Calculation for acoustic rating achievable on-site: laboratory value – 5 dB for doors / – 2 dB for fixed glazing.
- The stated values are only possible if fitted correctly in accordance with the current version of the fitting instructions.
- Threshold rails with seal are not approved for escape and rescue routes and cannot be used in hospitals and nursing homes.

**RC**

#### Break-in-resistant door sets according to DIN EN 1627

##### RC 2

Resistance time: 3 minutes

The burglar uses additional simple tools, such as screwdriver, pliers and wedge, to break open the closed and locked door.

##### RC 3

Resistance time: 5 minutes

The perpetrator also tries to break open the closed and locked door with a second screwdriver and crowbar.



#### Important!

An overhead door closer is mandatory for smoke-tight doors! (If not already included). Selection of a bottom edge is mandatory for smoke protection and acoustic insulation!

# Good reasons to try Hörmann steel loft doors



Industrial style for living areas and workspaces

**Large glazings with  
high-quality steel profiles**

**HÖRMANN**



# Product descriptions

for aluminium tubular frame parts

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# Aluminium fire-rated tubular frame construction project doors

## Hollow profiled section doors – for interior use

### Product description HE 311 (single-leaf) and HE 321 (double-leaf)

#### ● Fast-track programme for aluminium fire-rated tubular frame construction project doors:

- Standard version with white surface (RAL 9016), optional surface finishes anodised EV 1, RAL 7016, RAL 9005, RAL 9006, RAL 9007 and DB 703, with standard glazing and silver-coloured standard fittings.
- Marked accessories
- HE 311 (single-leaf):
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 1500 mm, with 1 side element 2480 mm, with 2 side elements 3460 mm
- HE 321 (double-leaf):
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm

**Note: max. delivery time 15 business days**

#### Product description HE 311 (single-leaf) and HE 321 (double-leaf)

Fire-retarding and ready-to-fit door set for **interiors**. Tested and officially approved for fitting to brickwork, concrete, gas concrete and partition walls.

Each door assembly will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Aluminium 3-way adjustable hinges, 2-part version, three-way adjustable, single-leaf: min. 2 units, double-leaf: min. 4 units
- Security bolt: single-leaf: 2 units, double-leaf: 4 units
- Single-leaf: overhead door closer with slide rail acc. to DIN EN 1154  
Double-leaf: 2 overhead door closers with slide rail acc. to DIN EN 1154 with integrated door leaf selector

#### ② Fittings

- Tubular frame mortice lock prepared for profile cylinder (31.5 / 65.5), rose escutcheon thickness 7 mm
- With aluminium lever handle set offset on both sides, with steel core, including lever handle rose escutcheons
- For double-leaf doors: fixed leaf with rebate locking bolt and switch latch (at top)

#### ③ Seals

- All-round door seals on 3 sides
- All-round glazing seals in glass rebate

#### ④ Design

- Aluminium tubular frame made of extrusion profiles according to DIN 1725
- Double-shell with thermal insulation through a quality-assured, shear-resistant composite of 6.6 polyamide, 25 % fibre glass-reinforced

#### ⑤ Visible surfaces

- Aluminium profiles powder-coated or anodised
- Flush-fitting
- Viewed width of frame and leaf 150 mm
- Bottom section height 150 mm, optional 105 mm
- Depth 80 mm

#### ⑥ Glazing

- Fire-proof glass F30, suitable as standard for internal applications
- Glazing bead on hinge side, on request on opposite hinge side
- Weight with standard glazing approx. 39 kg/m²

#### Size range (overall frame dimensions)

##### Single-leaf:

- Min. 605 × 1740 mm
- Max. 1500 × 3920 mm

##### Double-leaf:

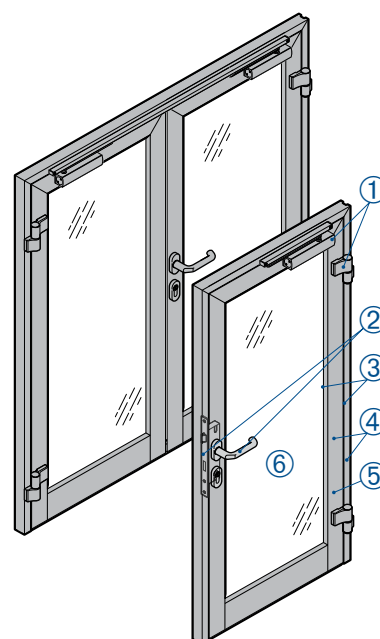
- Min. 1355 × 1740 mm
- Max. 3000 × 3920 mm
- Traffic leaf division dimensions 750 – 1500 mm
- Fixed leaf division dimensions 500 – 1500 mm

#### ► Note the minimum overall width!

#### Notice:

Doors with RAM height > 2352 mm require a fourth fixing point. From RAM height > 3000 mm top locking is required.

Max. 4 horizontal rails possible.



RS	dB	RC 2	RC 3	Optional performance characteristics (Optional extras required in some cases here)	Accessories required for performance characteristic
				Smoke protection acc. to DIN 18095	Optional Bottom seals, see from page 24
				Acoustic insulation	R <sub>w,P</sub> up to 42 dB Glass, see page 24
				Break-in resistance equipment	RC 2, RC 3 RC 2, RC 3 security features, see from page 24
				Accessories	From page 24
				Escape door function	Optional Accessories from page 24
				Escape door function with break-in resistance equipment RC2/RC3	Optional RC 2 security features from page 24

# Technical drawings HE 311 and HE 321

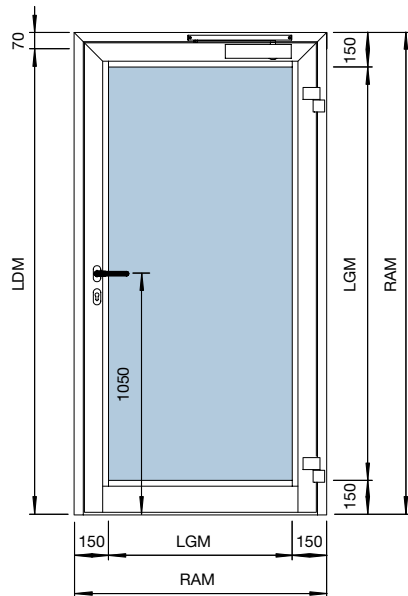
Hollow profiled section doors – for interior use

T30

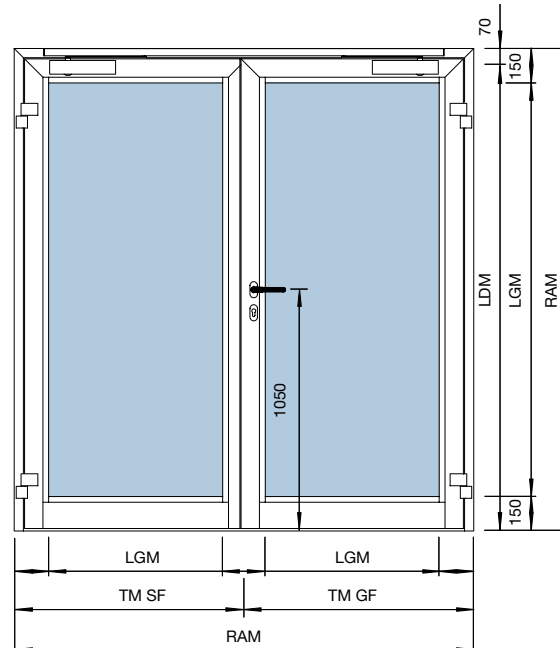


Subject to changes

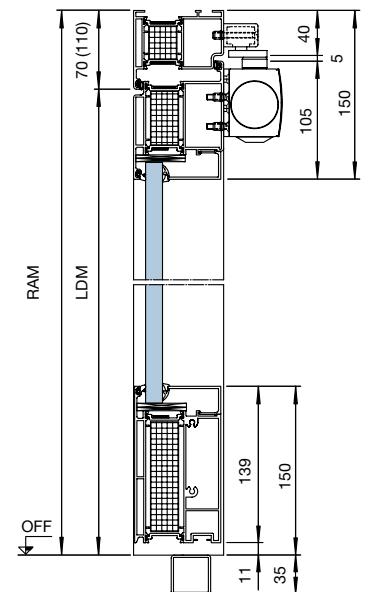
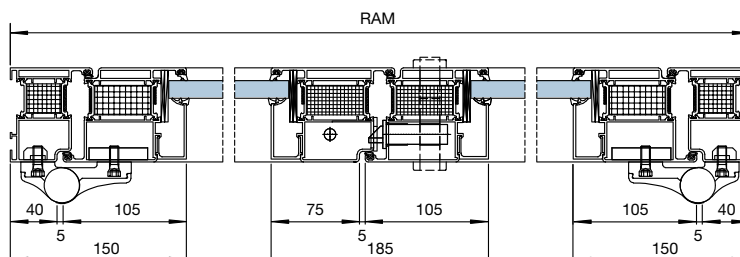
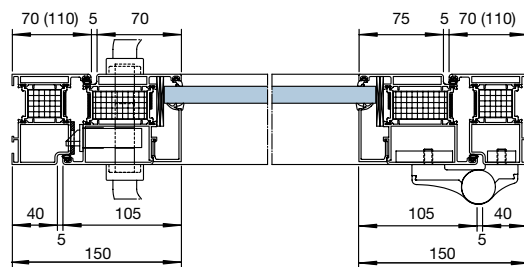
HE 311 aluminium



HE 321 aluminium



HE 311/321 aluminium



## Technical drawings

- Deduction dimensions for calculating the clear passage
- Fitting methods for brickwork, concrete, gas concrete, partition walls

See page 48

See from page 50

<b>LDM</b>	Clear passage dimension
<b>LGM</b>	Clear glass dimensions
<b>OFF</b>	Finished floor level
<b>RAM</b>	Overall frame dimension

# Aluminium fire-rated tubular frame construction project doors

Hollow profiled section doors – for exterior use

## Product description HE 311 (single-leaf) and HE 321 (double-leaf)



### Product description HE 311 (single-leaf) and HE 321 (double-leaf)

Fire-retarding and smoke-tight, ready-to-fit door set for **external applications**. Tested and officially approved for fitting to brickwork, concrete, gas concrete and partition walls.

Each door assembly will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Aluminium 3-way adjustable hinges, 2-part version, three-way adjustable, single-leaf: min. 2 units, double-leaf: min. 4 units
- Security bolt: single-leaf: 2 units, double-leaf: 4 units
- Single-leaf: overhead door closer with slide rail acc. to DIN EN 1154
- Double-leaf: 2 overhead door closers with slide rail acc. to DIN EN 1154 with integrated door leaf selector

#### ② Fittings

- Tubular frame mortice lock prepared for profile cylinder (31.5 / 65.5), rose escutcheon thickness 7 mm
- With aluminium lever handle set offset on both sides, with steel core, including lever handle rose escutcheons
- For double-leaf doors:  
Fixed leaf: rebate locking bolt and switch latch, locking at top and bottom as standard, two electric strikes required if necessary  
Traffic leaf: From RAM > 2150 mm with top locking, alternatively multiple-point locking (automatic)

#### ③ Seals

- All-round door seals on 3 sides
- All-round glazing seals in glass rebate
- Threshold rail with thermal break with double lip seal in floor area

#### ④ Design

- Aluminium tubular frame made of extrusion profiles acc. to DIN 1725
- Double-shell with thermal insulation through a quality-assured, shear-resistant composite of 6.6 polyamide, 25 % fibre glass-reinforced, as well as through inserted silicate boards

#### ⑤ Visible surfaces

- Aluminium profiles powder-coated or anodised
- Flush-fitting
- Viewed width of frame and leaf 150 mm
- Bottom section height 150 mm, optionally 105 mm (105 mm bottom section height not possible with threshold with thermal break)
- Depth 80 mm

#### ⑥ Glazing

- Insulated fire-proof glass F30, suitable as standard for outdoor use
- Glazing bead on hinge side, on request on opposite hinge side
- Weight with standard glazing approx. 54 kg/m²

#### Size range (overall frame dimensions)

##### Single-leaf:

- Min. 605 × 1740 mm
- Max. 1500 × 3000 mm

##### Double-leaf:

- Min. 1355 × 1740 mm
- Max. 3000 × 3000 mm
- Traffic leaf division dimensions 750 – 1500 mm
- Fixed leaf division dimensions 500 – 1500 mm

► **Hold-open devices and operators are not possible for external doors!**

► **Note the minimum overall width!**

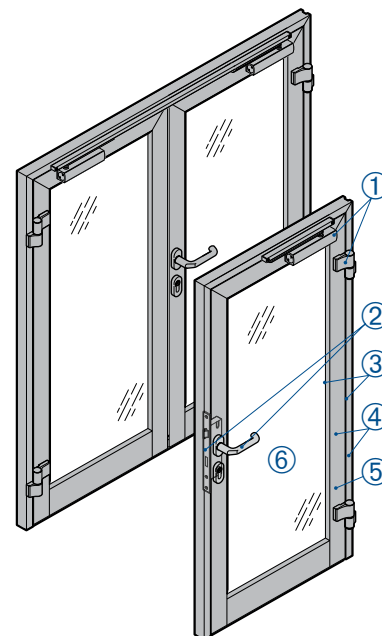
#### Notice:

For doors with RAM height > 2150 mm, the traffic leaf must be equipped with top locking.

If the traffic leaf is equipped with a lock (multiple-point locking, automatic), top locking is not required.

A fourth fixing point is required from a door height of RAM 2352 mm.

Max. 2 horizontal rails possible



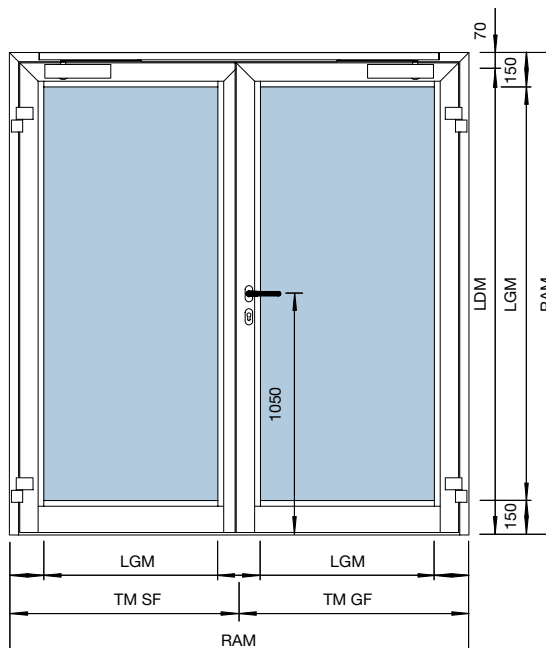
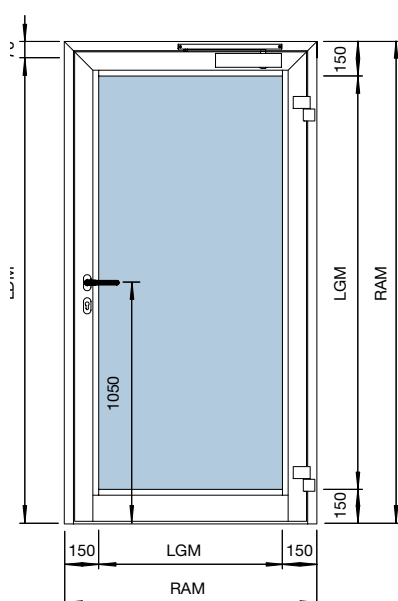
RS	dB	RC 2	RC 3	Optional performance characteristics (Optional extras required in some cases here)	Accessories required for performance characteristic
				Smoke protection acc. to DIN 18095	Optional
				Acoustic insulation	Bottom seals, see from page 179
				Thermal insulation	Up to 1.6 W/m²K
				Water tightness under heavy rain	Up to class 5A
				Break-in resistance equipment	RC 2, RC 3
				Accessories	RC 2, RC 3 security features, see from page 180
				Escape door function	Optional
				Escape door function with break-in resistance equipment RC 2	Optional
					From page 173
					Accessories from page 181
					RC 2 security features from page 181

### Hollow profiled section doors – for exterior use

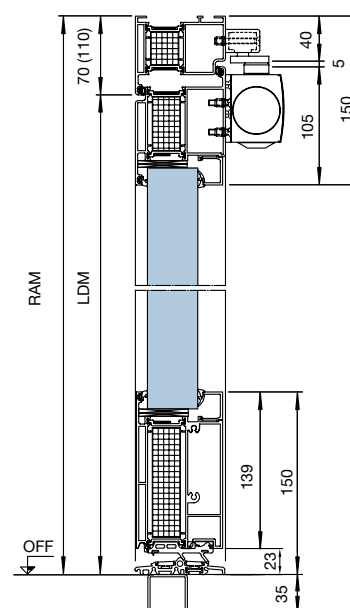
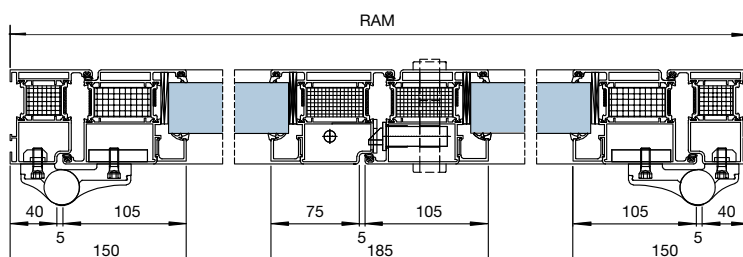
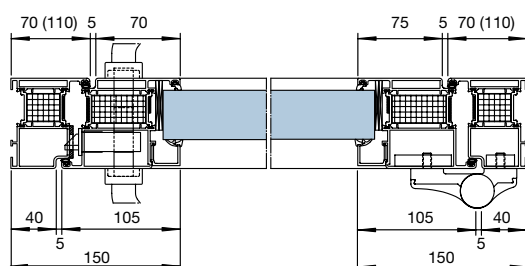


### Product description

## HE 321 aluminium



## HE 311 / 321 aluminium



- Deduction dimensions for calculating the clear passage
- Fitting methods for brickwork, concrete, gas concrete, partition walls

See page 48

See from page 50

<b>LDM</b>	Clear passage dimension
<b>LGM</b>	Clear glass dimensions
<b>OFF</b>	Finished floor level
<b>RAM</b>	Overall frame dimension

**TM GF** Traffic leaf division  
**TM SF** Fixed leaf division

# Aluminium fire-rated tubular frame construction project doors

With steel frame, for interior use

## Product description HE 311 (single-leaf) and HE 321 (double-leaf)



### Product description HE 311 (single-leaf) and HE 321 (double-leaf)

Fire-retarding and ready-to-fit door set for **interiors**. Tested and officially approved for fitting to brickwork, concrete, gas concrete and partition walls.

Each door assembly will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Aluminium 3-way adjustable hinges, 2-part version, three-way adjustable, single-leaf: min. 2 units, double-leaf: min. 4 units
- Security bolt: single-leaf: 2 units, double-leaf: 4 units
- Single-leaf: overhead door closer with slide rail acc. to DIN EN 1154  
Double-leaf: 2 overhead door closers with slide rail acc. to DIN EN 1154 with integrated door leaf selector

#### ② Fittings

- Tubular frame mortice lock prepared for profile cylinder (31.5 / 65.5), rose escutcheon thickness 7 mm
- With aluminium lever handle set offset on both sides, with steel core, including lever handle rose escutcheons
- For double-leaf doors: fixed leaf with rebate locking bolt and switch latch (at top)

#### ③ Seals

- All-round door seals on 3 sides
- All-round glazing seals in glass rebate

#### ④ Design

- Leaf made of aluminium extrusion profiles acc. to DIN 1725, frame made of steel
- Double-shell leaf profile with thermal insulation through a quality-assured, shear-resistant composite of 6.6 polyamide, 25 % fibre glass-reinforced, as well as through inserted silicate boards
- Frame type can be corner frame or double-shell profile frame
- Mortar-free fitting

#### ⑤ Visible surfaces

- Aluminium profiles powder-coated or anodised, frame primed in colour based on RAL 7035 (optionally powder-coated)
- Flush-fitting on hinge side
- Viewed width of frame and leaf 160 mm
- Bottom section height 150 mm, optional 105 mm
- Leaf depth 80 mm

#### ⑥ Glazing

- Fire-proof glass F30, suitable as standard for internal applications
- Glazing bead on hinge side, on request on opposite hinge side
- Weight with standard glazing approx. 39 kg/m<sup>2</sup>

#### Size range (overall frame dimensions)

##### Single-leaf:

- Min. 535 × 1705 mm
- Max. 1430 × 2965 mm
- Including transom light max. 1430 × 3500 mm

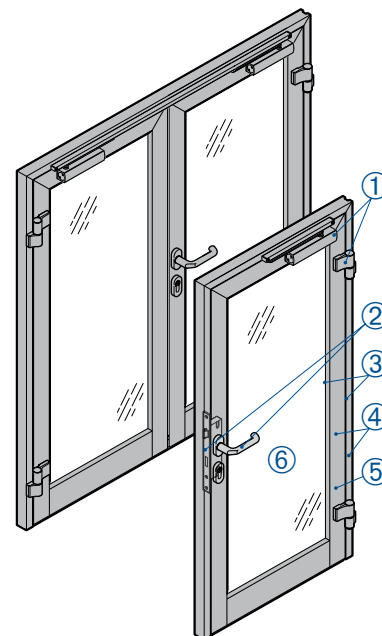
##### Double-leaf:

- Min. 1285 × 1705 mm
- Max. 2930 × 2965 mm
- Traffic leaf division dimensions 750 – 1465 mm
- Fixed leaf division dimensions 500 – 1465 mm
- Including transom light max. 2930 × 3500 mm

#### ► Note the minimum overall width!

#### Notice:

Max. 2 horizontal rails possible



RS	dB	RC 2	RC 3		Optional performance characteristics (Optional extras required in some cases here)	Accessories required for performance characteristic
					Smoke protection acc. to DIN 18095	Optional
					Acoustic insulation	R <sub>w,P</sub> up to 42 dB
					Break-in resistance equipment	RC 2, RC 3
					Escape door function	Optional
					Escape door function with break-in resistance equipment RC2/RC3	Optional
					Accessories	
						Bottom seals, see from page 179
						Glass, see page 175
						RC 2, RC 3 security features, see from page 180
						Accessories from page 181
						RC 2, RC 3 security features, see from page 181
						From page 173

# Technical drawings HE 311 and HE 321

With steel frame

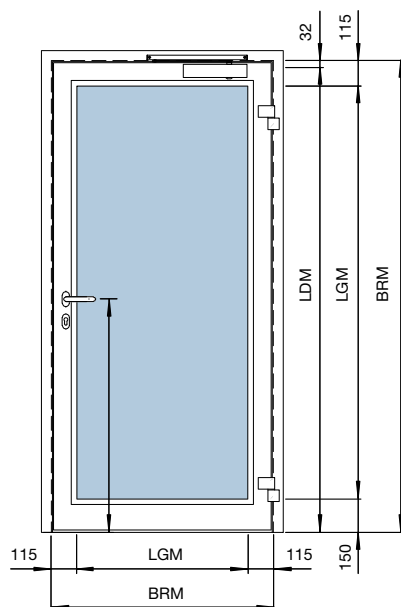
T30



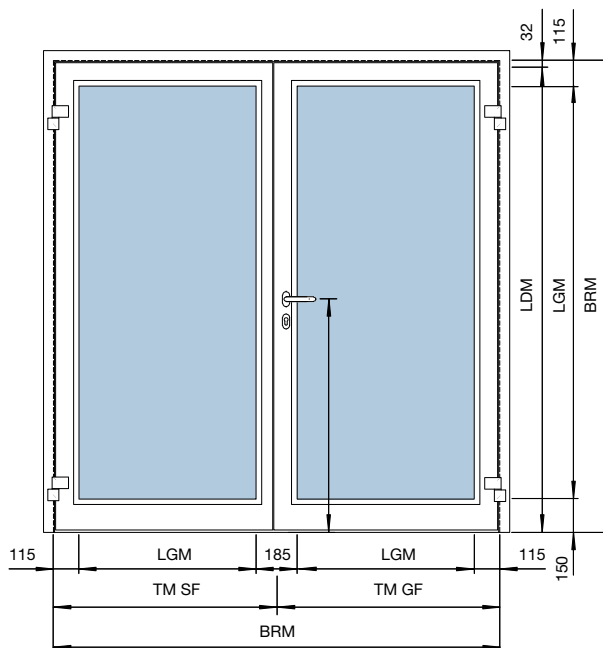
Subject to changes

Product description  
Aluminium

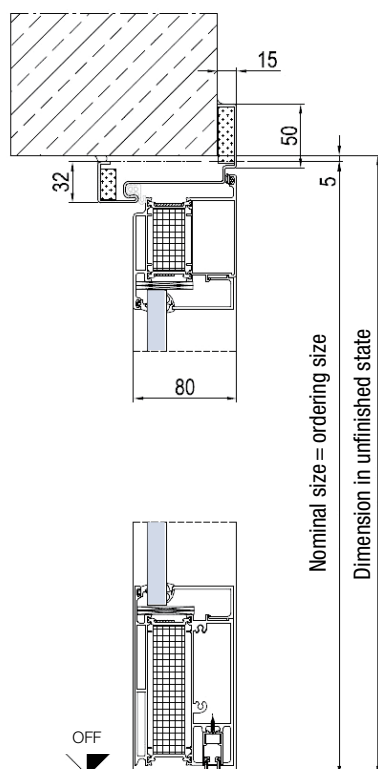
HE 311 aluminium



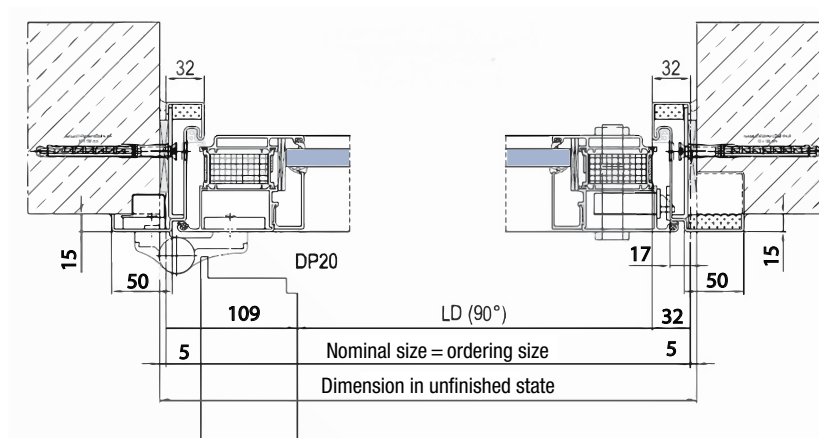
HE 321 aluminium



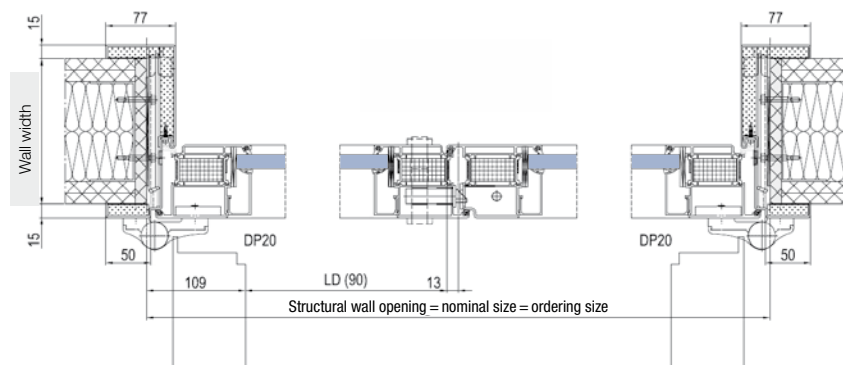
HE 311 / 321 aluminium  
(Corner frame)



HE 311 aluminium  
(Corner frame)



HE 321 aluminium  
(Double-shell profile frame)



**LDM** Clear passage dimension  
**LGM** Clear glass dimensions  
**MW** Wall width  
**OFF** Finished floor level

**RAM** Overall frame dimension  
**TM GF** Traffic leaf division  
**TM SF** Fixed leaf division

# Aluminium fire-rated tubular frame construction project doors

With frame without face, for interior use

## Product description HE 311 (single-leaf) and HE 321 (double-leaf)



### Product description HE 311 (single-leaf) and HE 321 (double-leaf)

Fire-retarding and ready-to-fit door set for **interiors**. Tested and officially approved for fitting to brickwork, concrete, gas concrete and partition walls.

Each door assembly will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Stainless steel guide rollers, two-way adjustable, single-leaf: min. 2 units, double-leaf: min. 4 units
- Security bolt: single-leaf: 2 units, double-leaf: 4 units
- Single-leaf: concealed overhead door closer with slide rail acc. to DIN EN 1154
- Double-leaf: 2 concealed overhead door closers with slide rail acc. to DIN EN 1154 with integrated door leaf selector

#### ② Fittings

- Tubular frame mortice lock prepared for profile cylinder (31.5/65.5), rose escutcheon thickness 7 mm
- With aluminium lever handle set offset on both sides, with steel core, including lever handle rose escutcheons
- For double-leaf doors: fixed leaf with rebate locking bolt and switch latch (at top)

#### ③ Seals

- All-round door seals on 3 sides
- All-round glazing seals in glass rebate

#### ④ Design

- Aluminium tubular frame made of extrusion profiles acc. to DIN 1725
- Double-shell leaf profile with thermal insulation through a quality-assured, shear-resistant composite of 6.6 polyamide, 25 % fibre glass-reinforced

#### ⑤ Visible surfaces

- Aluminium profiles powder-coated or anodised
- Flush-fitting on hinge side
- Viewed width of frame and leaf 122 mm
- Bottom section height 150 mm, optional 105 mm
- Leaf depth 80 mm

#### ⑥ Glazing

- Fire-proof glass F30, suitable as standard for internal applications
- Glazing bead on hinge side
- Weight with standard glazing approx. 39 kg/m<sup>2</sup>

#### Size range (overall frame dimensions)

##### Single-leaf:

- Min. 788 × 1710 mm
- Max. 1415 × 2500 mm
- Including transom light max. 1415 × 3000 mm

##### Double-leaf:

- Min. 1538 × 1710 mm
- Max. 2810 × 2500 mm
- Traffic leaf division dimensions 750 – 1405 mm
- Fixed leaf division dimensions 500 – 1405 mm
- Including transom light max. 2810 × 3000 mm

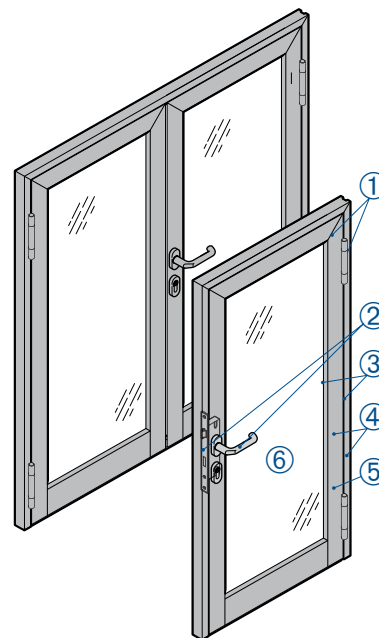
#### ► Note the minimum overall width!

#### Notice:

Max. 2 horizontal rails possible

Surface-mounted closers can be used for elements with transom light.

An additional top part of 9.5 mm in the lintel area must be observed for double-leaf doors without transom light.



RS	dB	RC 2	RC 3	Optional performance characteristics (Optional extras required in some cases here)	Accessories required for performance characteristic
				Smoke protection acc. to DIN 18095	Optional
				Acoustic insulation	Bottom seals, see from page 30
				Break-in resistance equipment	Glass, see page 30
				Escape door function	RC 2, RC 3 security features, see from page 30
				Accessories	Accessories from page 30
					From page 30



# Technical drawings HE 311 and HE 321

With frame without face

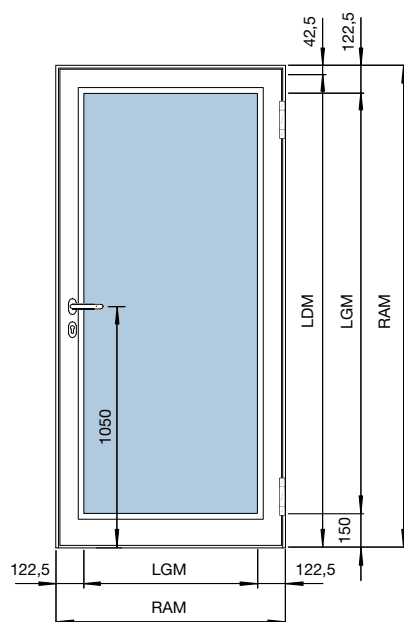
T30



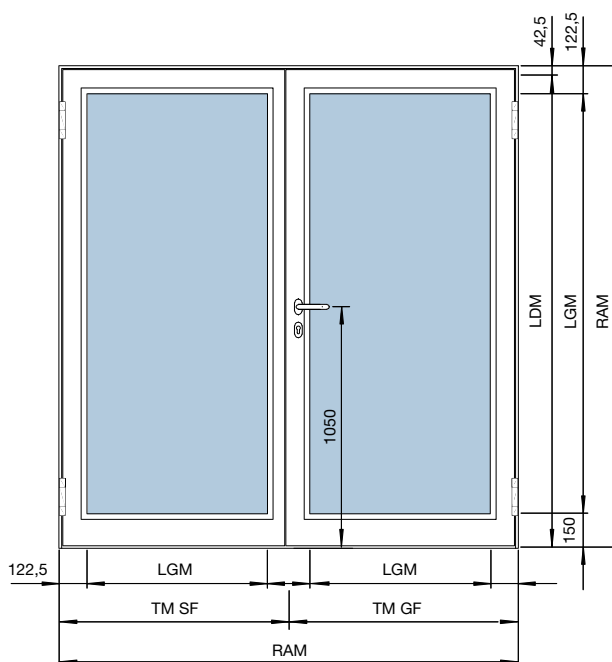
Subject to changes

Product description  
Aluminium

HE 311 aluminium

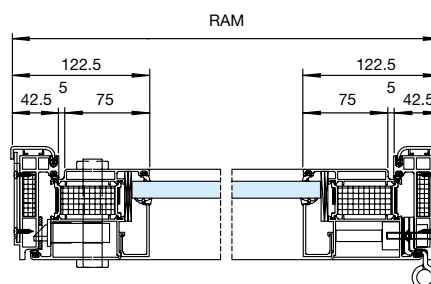
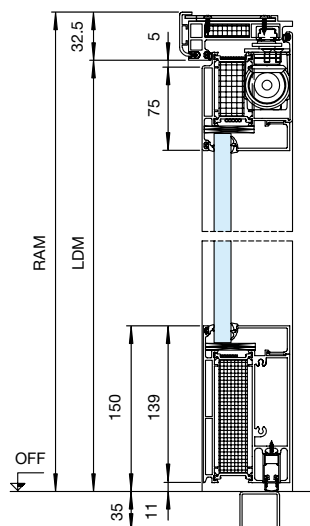


HE 321 aluminium

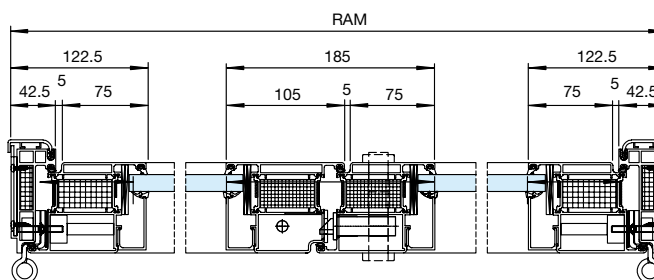


HE 311/321 aluminium

HE 311 aluminium



HE 321 aluminium



## Technical drawings

- Deduction dimensions for calculating the clear passage
- Fitting methods for brickwork, concrete, gas concrete, partition walls

See page 48

See from page 50

<b>BRM</b>	Nominal size
<b>LDM</b>	Clear passage dimension
<b>LGM</b>	Clear glass dimensions
<b>MW</b>	Wall width
<b>OFF</b>	Finished floor level

<b>RAM</b>	Overall frame dimension
<b>TM GF</b>	Traffic leaf division
<b>TM SF</b>	Fixed leaf division

# Aluminium fire protection fixed glazings

For use as transom light, side element or fixed glazing in interiors and exteriors

## Product description HE 331

### Fast-track programme for aluminium fire-rated tubular frame construction project doors for fixed glazing (for interior use only):

- Standard version with white surface (RAL 9016), optional surface finishes anodised EV 1, RAL 7016, RAL 9005, RAL 9006, RAL 9007 and DB 703, with standard glazing and silver-coloured standard fittings.
- Max. element height 2620 mm (with solid transom light 3000 mm)
- Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm

- Marked accessories

#### Transom light

- Max. 2600 × 1000 mm

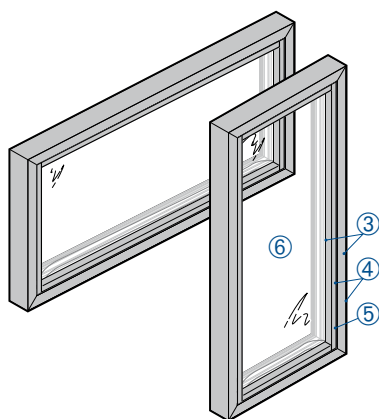
#### Side element

- Max. 1480 × 2620 mm

**Note: max. delivery time 15 business days**

### Product description HE 331 – transom light, side element or fixed glazing

Fire-retarding and smoke-tight F30 glazing for **interiors or exteriors**, depending on equipment. Each glazing element will be individually manufactured according to measurements. Tested and officially approved for fitting to brickwork, concrete, gas concrete and partition walls.



#### Size range for interiors (overall frame dimensions)

##### Interior

- Min. 300 × 300 mm
- Max. 5800 × 4960 mm
- Depending on the selected glazing, glass-dividing rails must be taken into account.

**Larger RAM in width and height on request.**

**With a glass ratio of > 1:10,  
a glass-dividing rail is required.**

#### Size range for exteriors (overall frame dimensions)

##### External transom light

- Max. 3000 × 1580 mm

##### External side element

- Max. 1400 × 3100 mm

**Larger RAM in width and height on request.**

Depending on the selected glazing, glass-dividing rails must be taken into account.

**With a glass ratio of > 1:10,  
a glass-dividing rail is required.**

#### Notice:

Exclusive fixed glazings (without door) are available up to a max. RAM of 1500 × 2500 mm as a single element or a max. RAM of 4500 × 2500 mm as a post / horizontal profile or coupling construction.

#### Standard version

(Special equipment subject to surcharge)

##### ① Seals

- All-round glazing seals in glass rebate

##### ② Design

- Aluminium tubular frame made of extrusion profiles acc. to DIN 1725
- Double-shell with thermal insulation through a quality-assured, shear-resistant composite of 6.6 polyamide, 25 % fibre glass-reinforced, as well as through inserted silicate boards

##### ③ Visible surfaces

- Aluminium profiles powder-coated or anodised
- Flush-fitting
- Viewed frame width 70 mm
- Depth 80 mm
- Bottom section height for use as side element: 150 mm, optionally 105 mm.

##### ④ Glazing

##### Interior

- Fire-proof glass F30, suitable as standard for internal applications
- Weight with standard glazing approx. 39 kg/m<sup>2</sup>

##### Exterior

- Insulated fire-proof glass F30, suitable as standard for outdoor use
- Weight with standard glazing approx. 54 kg/m<sup>2</sup>

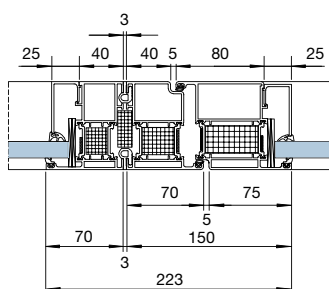
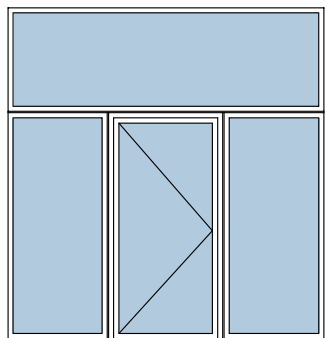


## Design variants

Subject to changes

The configuration of the elements should be adapted to the individual fitting situation and space available on site.

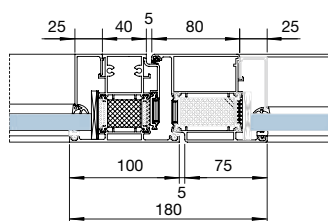
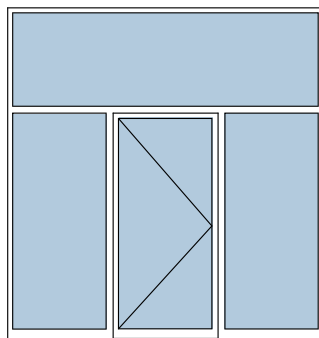
### HE 331 coupling construction



Advantage:

- Individual elements (doors, side elements, transom lights) are easy and convenient to transport
- Can be used if limited space is available

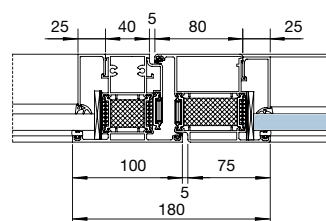
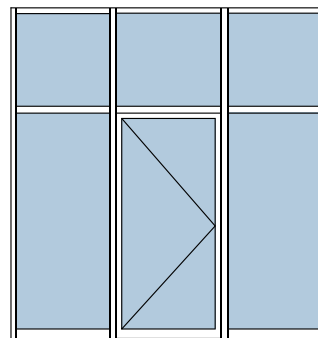
### HE 331 vertical / horizontal profile construction



Advantage:

- One complete element for quick and easy fitting on site
- Mitre cut
- High transparency due to narrow profile views

### HE 331 plug-in system

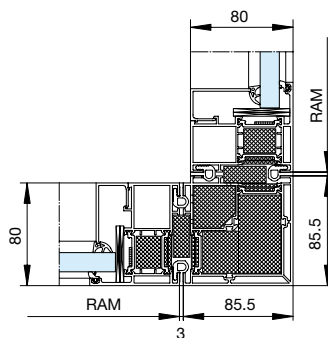


Advantage:

- Individual elements for easy transport due to butted cut of profiles
- High transparency due to narrow profile views

Further design variants such as 97 horizontal profile / 97 vertical profile can be created via the Hörmann configurator.

### Corner profile construction 90°



#### Notice:

Flexible corner profiles from 20°-180° on request

**RAM** Overall frame dimension

#### Technical drawings

- Deduction dimensions for calculating the clear passage
- Fitting methods for brickwork, concrete, gas concrete, partition walls

See page 48

See from page 50

# Aluminium fire-rated doors

With extensive glazing for interior use

## Product description HE 611, HE 911 and HE 621, HE 921

### ● Fast-track programme for aluminium fire-rated tubular frame construction project doors:

- Standard version with white surface (RAL 9016), optional surface finishes anodised EV 1, RAL 7016, RAL 9005, RAL 9006, RAL 9007 and DB 703, with standard glazing and silver-coloured standard fittings.
- Marked accessories
- HE 611 (single-leaf):
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 1500 mm, with 1 side element 2480 mm, with 2 side elements 3460 mm
- HE 621 (double-leaf):
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm

**Note: max. delivery time 20 business days**

### Product description HE 611, HE 911 (single-leaf) and HE 621, HE 921 (double-leaf)

Fire-proof and ready-to-fit door set for **interiors**. Tested and officially approved for fitting to brickwork, concrete, gas concrete and partition walls.

Each door assembly will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Aluminium 3-way adjustable hinges, 3-part version, three-way adjustable, single-leaf: min. 3 units, double-leaf: min. 6 units
- Security bolt:
  - up to 2500 mm RAM height: single-leaf: 2 units, double-leaf: 4 units
  - from 2501 mm RAM height: single-leaf: 4 units, double-leaf: 8 units
- Overhead door closers
  - Single-leaf: overhead door closer with slide rail acc. to DIN EN 1154
  - Double-leaf: 2 overhead door closers with slide rail acc. to DIN EN 1154 with integrated door leaf selector

#### ② Fittings

- Tubular frame mortice lock prepared for profile cylinder (31.5 / 65.5), rose escutcheon thickness 7 mm
- With aluminium lever handle set offset on both sides, with steel core, including lever handle rose escutcheons
- For double-leaf doors: fixed leaf with rebate locking bolt and switch latch (at top)

#### ③ Seals

- All-round door seals on 3 sides
- All-round glazing seals in glass rebate

#### ④ Design

- Aluminium tubular frame made of extrusion profiles acc. to DIN 1725
- Double-shell with thermal insulation through a quality-assured, shear-resistant composite of 6.6 polyamide, 25 % fibre glass-reinforced

#### ⑤ Visible surfaces

- Aluminium profiles powder-coated or anodised
- Flush-fitting
- Viewed width of frame and leaf 150 mm
- Bottom section height 150 mm
- Depth 80 mm

#### ⑥ Glazing

- Fire-proof glass F60 (HE 611) or F90 (HE 911), suitable as standard for internal applications
- Glazing bead on hinge side, on request on opposite hinge side
- Weight with standard glazing approx. 65 kg/m<sup>2</sup>

#### Size range (overall frame dimensions)

##### Single-leaf:

- Min. 605 × 1740 mm
- Max. 1500 × 2800 mm

► **Note the minimum overall width!**

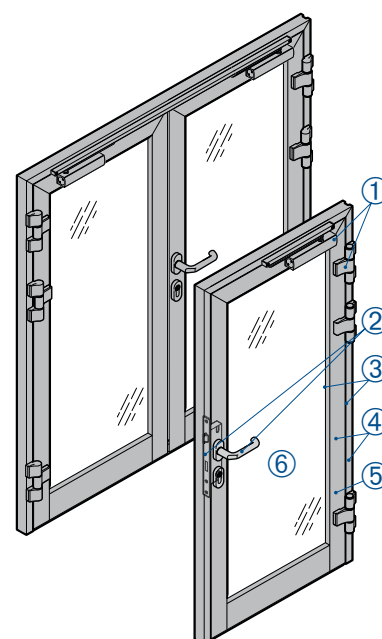
##### Double-leaf:

- Min. 1355 × 1740 mm
- Max. 2850 × 2800 mm
- Traffic leaf division dimensions 750 – 1425 mm
- Fixed leaf division dimensions 500 – 1425 mm

► **Note the minimum overall width!**

► **Door set divided symmetrically. Observe the minimum division dimensions!**

► **Indicate division of leaves on order if asymmetrically divided leaves are required!**



#### Notice:

A fourth fixing point is required from a door height of 2352 mm.

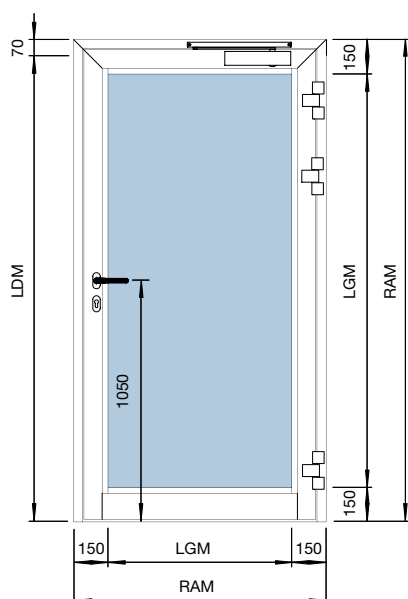
Max. 4 horizontal rails possible

RS	dB	RC 2	RC 3	Optional performance characteristics (Optional extras required in some cases here)	Accessories required for performance characteristic
				Smoke protection acc. to DIN 18095	Optional
				Acoustic insulation	Bottom seals, see from page 179
				Break-in resistance equipment	Glass, see page 175
				Escape door function	RC 2, RC 3 security features, see from page 180
				Escape door function with break-in resistance equipment RC 2	Optional
					Accessories from page 181
					RC 2 security features from page 181

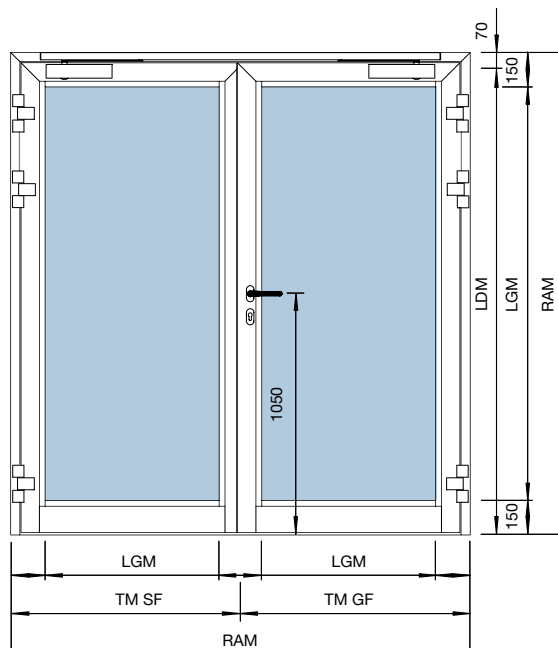


Subject to changes

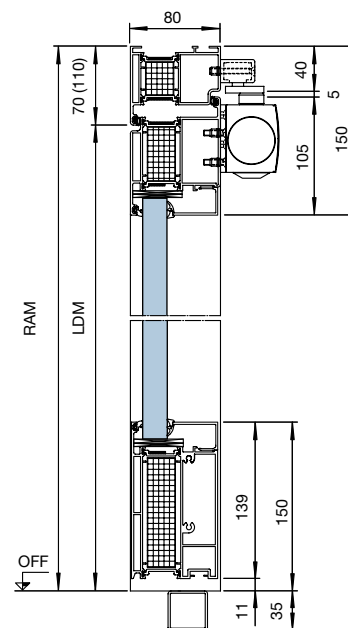
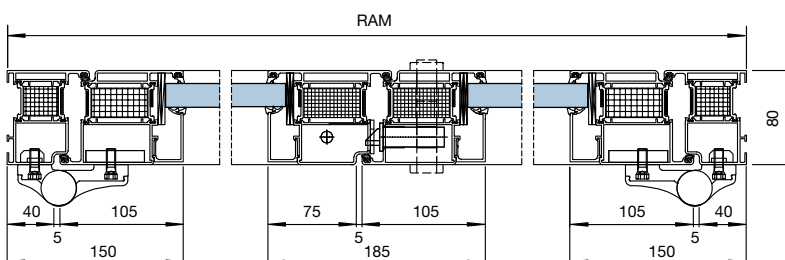
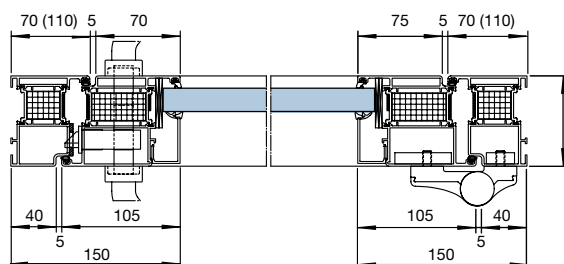
HE 611, HE 911 aluminium



HE 621, HE 921 aluminium



HE 611, 911 / 621, 921 aluminium



## Technical drawings

- Deduction dimensions for calculating the clear passage
- Fitting methods for brickwork, concrete, gas concrete, partition walls

See page 48

See from page 50

<b>LDM</b>	Clear passage dimension
<b>LGM</b>	Clear glass dimensions
<b>OFF</b>	Finished floor level
<b>RAM</b>	Overall frame dimension

# Aluminium smoke-tight door assemblies

Hollow profiled section doors – for interior use

## Product description A / RS 150, A / RS 250



Subject to changes

### ● Fast-track programme for A / RS 150 and A / RS 250 smoke-tight doors made from aluminium:

- Standard version with white surface (RAL 9016), optional surface finishes anodised EV 1, RAL 7016, RAL 9005, RAL 9006, RAL 9007 and DB 703, with standard glazing and silver-coloured standard fittings.
- Marked accessories
- A / RS 150 (single-leaf)
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 1500 mm, with 1 side element 2480 mm, with 2 side elements 3460 mm
- A / RS 250 (double-leaf)
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm

**Note: max. delivery time 15 business days**

### Product description A / RS 150 – single-leaf and A / RS 250 – double-leaf

Smoke-tight, ready-to-fit door set for interiors.

Each door assembly will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Aluminium 3-way adjustable hinges, 2-part version, three-way adjustable, single-leaf: 2 units, double-leaf: 4 units
- Overhead door closer with slide rail acc. to DIN EN 1154 (integrated door leaf selector with double-leaf doors)

#### ② Fittings

- Tubular frame mortice lock prepared for profile cylinder (31.5/35.5), rose escutcheon thickness 7 mm
- With aluminium round lever handle set offset on both sides, with steel core, including cylinder rose escutcheons
- For double-leaf doors: fixed leaf with rebate locking bolt and switch latch (at top)

#### ③ Seals

- All-round EPDM door seal
- All-round sealing in glass rebate
- Door bottom edge with retractable bottom seal

#### ④ Design

- Aluminium tubular frame made of extrusion profiles according to DIN 1725

#### ⑤ Visible surfaces

- Aluminium profiles powder-coated or anodised
- Flush-fitting
- Viewed width of frame and leaf 150 mm
- Depth 50 mm
- Bottom section height 150 mm, optionally 105 mm

#### ⑥ Glazing

- Laminated safety glass 6 mm
- Glazing bead on hinge side, on request on opposite hinge side
- Weight with standard glazing approx. 20 kg/m<sup>2</sup>

#### Size range (overall frame dimensions)

##### Single-leaf

- With fascia frame:
  - Min. 605 × 1740 mm
  - Max. 1500 × 3000 mm
- With steel frame:
  - Min. 535 × 1705 mm
  - Max. 1430 × 2965 mm

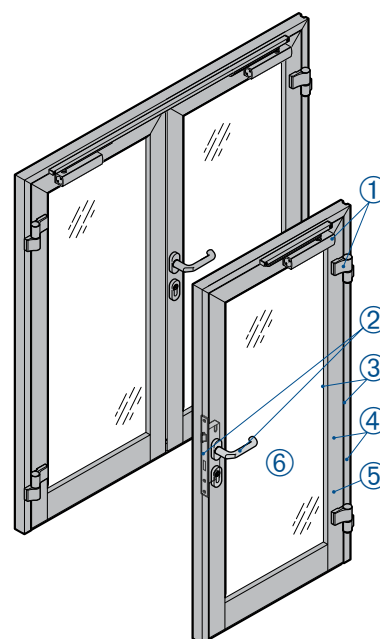
##### Double-leaf:

- With fascia frame:
  - Min. 1355 × 1740 mm
  - Max. 3000 × 3000 mm
  - Traffic leaf division dimensions 750 – 1500 mm
  - Fixed leaf division dimensions 500 – 1500 mm
- With steel frame:
  - Min. 1285 × 1705 mm
  - Max. 2930 × 2965 mm
  - Traffic leaf division dimensions 750 – 1465 mm
  - Fixed leaf division dimensions 500 – 1465 mm

► **Note the minimum overall width!**

**Larger RAM on request**

Max. 4 horizontal rails possible



#### Optional performance characteristics (Optional extras required in some cases here)

Accessories required for performance characteristic

Acoustic insulation	R <sub>w,P</sub> up to 38 dB	Glass, see page 175
Escape door function	Optional	Accessories from page 181

# Technical drawings

for A / RS 150, A / RS 250

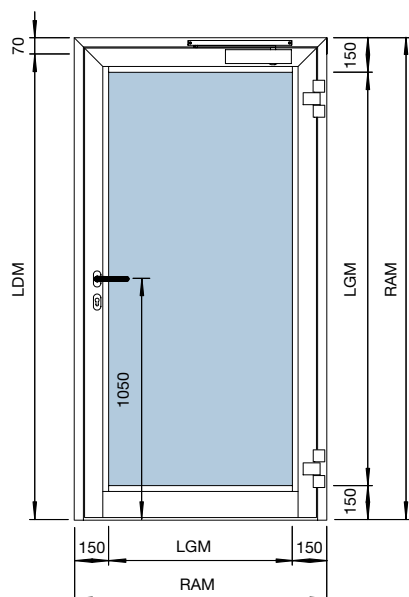
RS



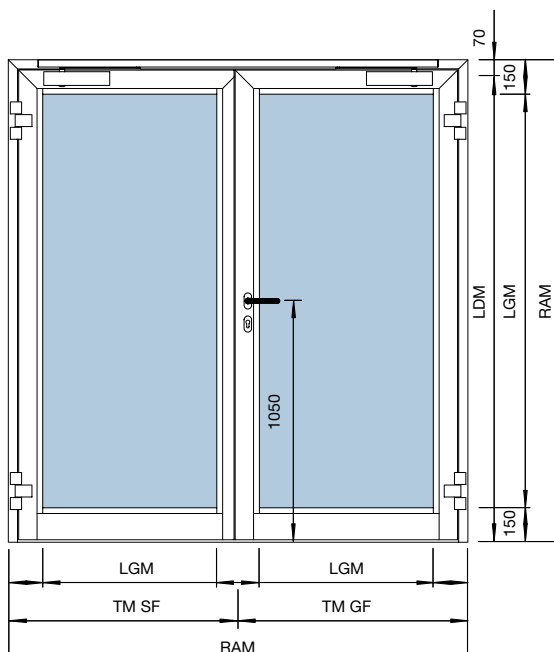
Subject to changes

Product description  
Aluminium

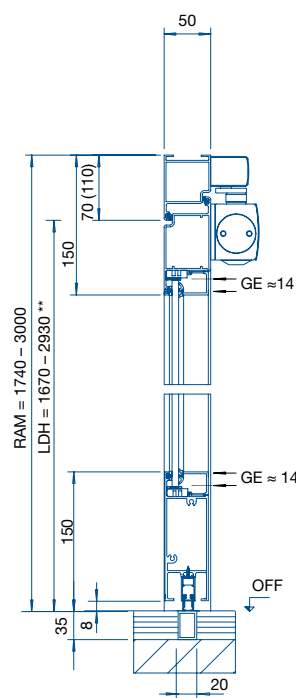
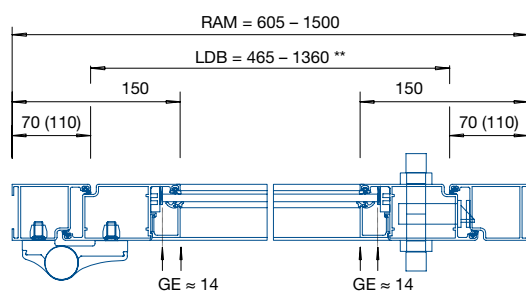
A / RS 150



A / RS 250



A / RS 150 / 250 aluminium



## Technical drawings

- Deduction dimensions for calculating the clear passage
- Fitting methods for brickwork, concrete, gas concrete, partition walls

See page 48

See from page 50

**LDM** Clear passage dimension  
**LGM** Clear glass dimensions  
**OFF** Finished floor level  
**RAM** Overall frame dimension

**TM GF** Traffic leaf division  
**TM SF** Fixed leaf division

# Aluminium smoke-tight fixed glazings

for use as transom light, side element or fixed glazing in interiors

## Product description A / RS 350

RS



Subject to changes

### ● Fast-track programme for A / RS 350 transom lights and side elements made from aluminium:

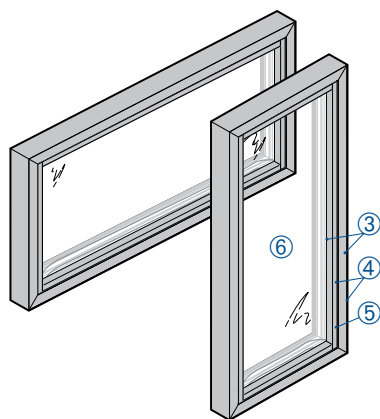
- Standard version with white surface (RAL 9016), optional surface finishes anodised EV 1, RAL 7016, RAL 9005, RAL 9006, RAL 9007 and DB 703, with standard glazing and silver-coloured standard fittings.
- Marked accessories
- A / RS 350 (transom lights):
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm
- A / RS 350 (side elements):
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm

**Note: max. delivery time 15 business days**

### Product description side element / transom light A / RS 350 and ES 350

Ready-to-fit fixed element for interiors.

Each glazing element will be individually manufactured according to measurements.



#### Notes:

##### Side element A / RS 350

Max. 4 horizontal rails and 3 vertical rails are possible

##### Transom light A / RS 350

Max. 2 horizontal rails and 3 vertical rails are possible

#### Standard version

(Special equipment subject to surcharge)

##### ① Seals

- All-round EPDM glazing seal

##### ② Design

- Tubular frame made of anodised or powder-coated aluminium profiles

##### ③ Visible surfaces

- Flush-fitting
- Viewed width 70 mm
- Depth 50 mm
- Bottom section height for use as side element: 150 mm, optionally 105 mm

##### ④ Glazing

- Laminated safety glass 6 mm
- Weight with standard glazing approx. 20 kg/m<sup>2</sup>

#### Size range (overall frame dimensions)

- Min. 300 x 300 mm
- Max. depending on glass type
- Depending on the selected glazing, glass-dividing rails must be taken into account

#### Technical drawings

- Deduction dimensions for calculating the clear passage
- Fitting methods for brickwork, concrete, gas concrete, partition walls

See page 48

See from page 50



Good reasons to try Hörmann  
steel and aluminium tubular frame  
construction project doors



Maximum clear passage width

**Steel profile frame**

\* compared to door version with fascia frame

**HÖRMANN**

# Aluminium smoke-tight door assemblies with thermal insulation

Hollow profiled section doors with thermal break – for interior use

## Product description A / RS 100, A / RS 200



Subject to changes

### ● Fast-track programme for A / RS 100 and A / RS 200 smoke-tight doors with thermal insulation made from aluminium:

- Standard version with white surface (RAL 9016), optional surface finishes anodised EV 1, RAL 7016, RAL 9005, RAL 9006, RAL 9007 and DB 703, with standard glazing and silver-coloured standard fittings.
- Marked accessories
- A / RS 100 (single-leaf)
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 1500 mm, with 1 side element 2480 mm, with 2 side elements 3460 mm
- A / RS 200 (double-leaf)
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm

**Note: max. delivery time 15 business days**

### Product description A / RS 100 – single-leaf and A / RS 200 – double-leaf

Smoke-tight, ready-to-fit door set, tested in accordance with DIN 18095 for interiors.

Each door assembly will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Aluminium 3-way adjustable hinges, 2-part version, three-way adjustable, single-leaf: 2 units, double-leaf: 4 units
- Overhead door closer with slide rail acc. to DIN EN 1154 (integrated door leaf selector with double-leaf doors)

#### ② Fittings

- Tubular frame mortice lock prepared for profile cylinder (31.5 / 65.5), rose escutcheon thickness 7 mm
- With aluminium round lever handle set offset on both sides, with steel core, including cylinder rose escutcheons
- For double-leaf doors: fixed leaf with rebate locking bolt and switch latch (at top)

#### ③ Seals

- All-round EPDM door seal
- All-round sealing in glass rebate
- Door bottom edge with retractable bottom seal

#### ④ Design

- Aluminium tubular frame made of extrusion profiles acc. to DIN 1725
- Double-shell with thermal insulation through a quality-assured, shear-resistant composite of 6.6 polyamide, 25 % fibre glass-reinforced

#### ⑤ Visible surfaces

- Aluminium profiles powder-coated or anodised
- Flush-fitting
- Viewed width (frame and leaf) 150 mm
- Bottom section height 150 mm (optional 105 mm)
- Depth 80 mm

#### ⑥ Glazing

- Insulated laminated safety glass 24 mm
- Glazing bead on hinge side, on request on opposite hinge side
- Weight with standard glazing approx. 35 kg/m<sup>2</sup>

#### Size range (overall frame dimensions)

##### Single-leaf

- With fascia frame:
  - Min. 605 × 1740 mm
  - Max. 1500 × 3000 mm
- With steel frame:
  - Min. 535 × 1705 mm
  - Max. 1430 × 2965 mm

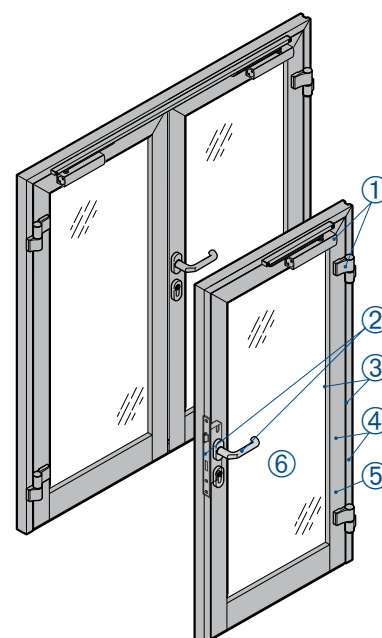
##### Double-leaf:

- With fascia frame:
  - Min. 1355 × 1740 mm
  - Max. 3000 × 3000 mm
  - Traffic leaf division dimensions 750 – 1500 mm
  - Fixed leaf division dimensions 500 – 1500 mm
- With steel frame:
  - Min. 1285 × 1705 mm
  - Max. 2930 × 2965 mm
  - Traffic leaf division dimensions 750 – 1465 mm
  - Fixed leaf division dimensions 500 – 1465 mm

► **Note the minimum overall width!**

#### Larger RAM on request

Max. 4 horizontal rails possible



RS	dB	RC 2	RC 3		Optional performance characteristics (Optional extras required in some cases here)	Accessories required for performance characteristic
					Acoustic insulation	R <sub>w,P</sub> up to 38 dB Glass, see page 175
					Break-in resistance equipment	RC 2, RC 3 RC 2, RC 3 security features, see from page 180
					Escape door function	Optional Accessories from page 181
					Escape door function with break-in resistance equipment RC 2	Optional RC 2 security features, see from page 181

# Technical drawings

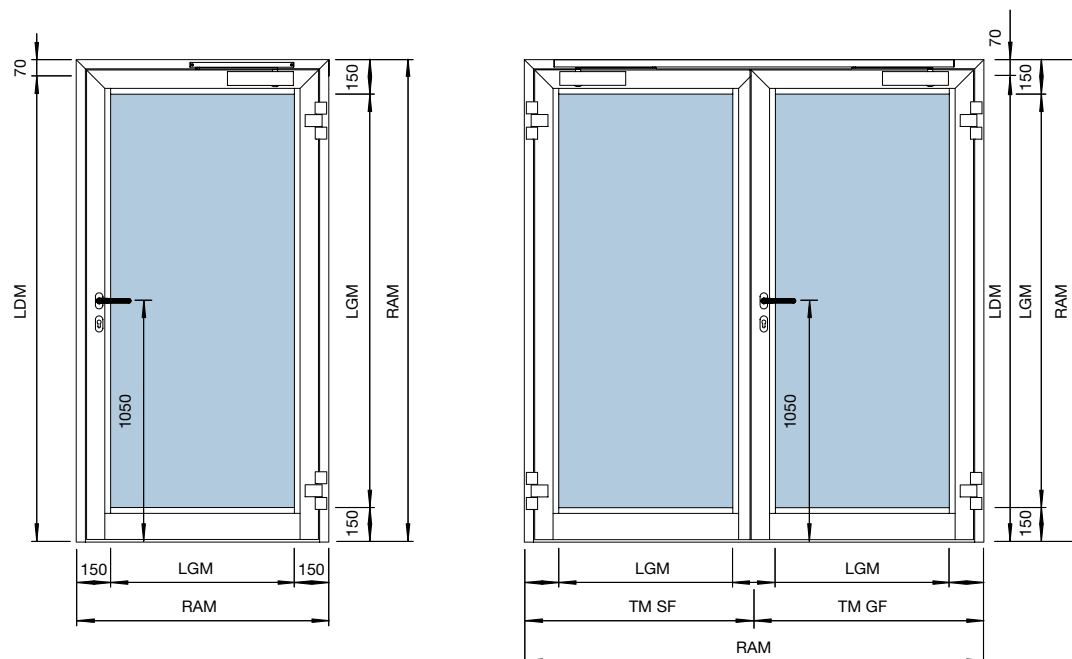
for A / RS 100, A / RS 200

RS

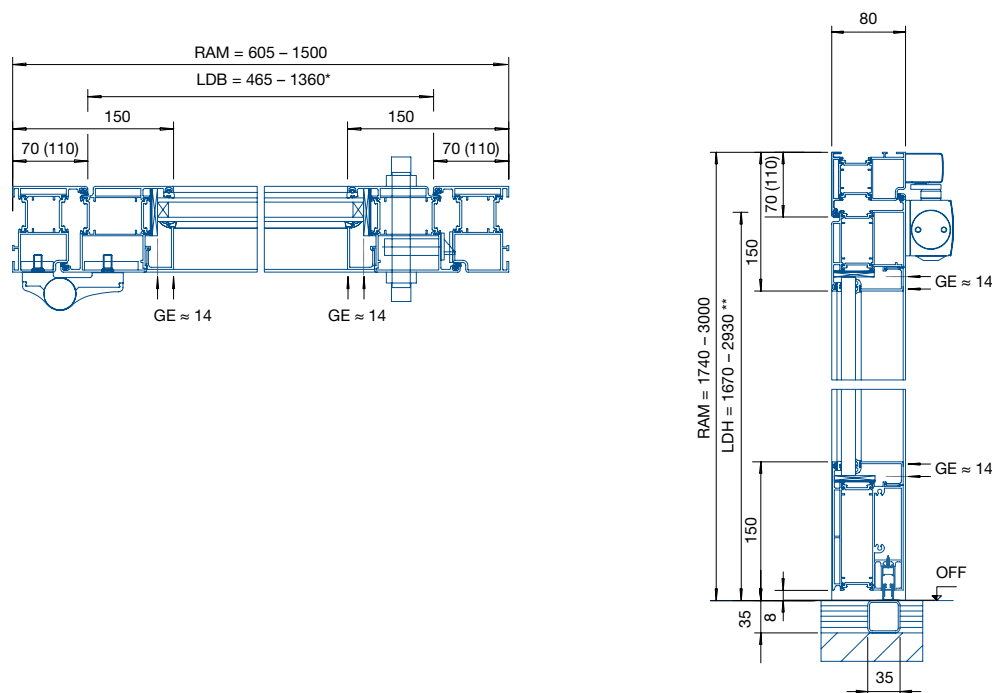


Subject to changes

## A / RS 100/200 aluminium



## A / RS 100/200 aluminium



### Technical drawings

- Deduction dimensions for calculating the clear passage
- Fitting methods for brickwork, concrete, gas concrete, partition walls

See page 48

See from page 50

**LDM** Clear passage dimension  
**LGM** Clear glass dimensions  
**OFF** Finished floor level  
**RAM** Overall frame dimension

**TM GF** Traffic leaf division  
**TM SF** Fixed leaf division

# Smoke-tight door assemblies with thermal insulation

For use as transom light, side element or fixed glazing in interiors and exteriors

## Product description A / RS 300

RS



Subject to changes

### ● Fast-track programme for A / RS 300 transom lights and side elements made from aluminium for interiors

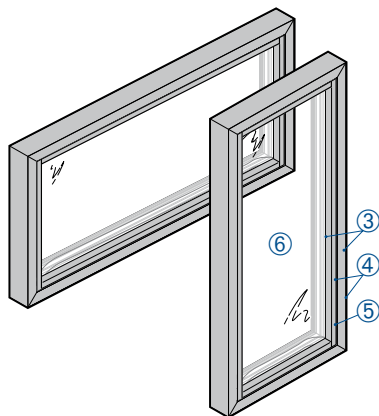
- Standard version with white surface (RAL 9016), optional surface finishes anodised EV 1, RAL 7016, RAL 9005, RAL 9006, RAL 9007 and DB 703, with standard glazing and silver-coloured standard fittings.
- Marked accessories
- A / RS 300 (transom lights):
  - Max. 2600 × 1000 mm
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm
- A / RS 300 (side elements):
  - Max. 1480 × 2620 mm
  - Max. element height 2620 mm (with solid transom light 3000 mm)
  - Max. element width 2500 mm, with 1 side element 3500 mm, with 2 side elements 4500 mm

**Note: max. delivery time 15 business days**

### Product description side element / transom light A / RS 300 – single-leaf and double-leaf

Smoke-tight, ready-to-fit fixed element with thermal insulation for interior and exterior use.

Each glazing element will be individually manufactured according to measurements.



#### Standard version

(Special equipment subject to surcharge)

#### ① Seals

- All-round glazing seal in the glass rebate

#### ② Design

- Aluminium tubular frame made of extrusion profiles acc. to DIN 1725
- Double-shell with thermal insulation through a quality-assured, shear-resistant composite of 6.6 polyamide, 25 % fibre glass-reinforced

#### ③ Visible surfaces

- Aluminium profiles powder-coated or anodised
- Flush-fitting
- Viewed frame width 70 mm
- Depth 80 mm
- Bottom section height for use as side element: 150 mm (70 mm, 105 mm)

#### ④ Glazing

##### Interior

- Insulated laminated safety glass, 24 mm
- Weight with standard glazing approx. 35 kg/m<sup>2</sup>

##### Exterior

- Insulated laminated safety glass, 24 mm
- Weight with standard glazing approx. 35 kg/m<sup>2</sup>

#### Size range for interiors (overall frame dimensions)

##### Interior

- Min. 300 × 300 mm
- Max. 5800 × 4960 mm
- Depending on the selected glazing, glass-dividing rails must be taken into account.

**Larger RAM in width and height on request.**

**With a glass ratio of > 1:10,  
a glass-dividing rail is required.**

#### Size range for exteriors (overall frame dimensions)

##### External transom light

- Max. 3000 × 1580 mm

##### External side element

- Max. 1400 × 3100 mm

**Larger RAM in width and height on request.**

Depending on the selected glazing, glass-dividing rails must be taken into account.

**With a glass ratio of > 1:10,  
a glass-dividing rail is required.**

#### Notice:

Exclusive fixed glazings (without door) are available up to a max. RAM of 1500 × 2500 mm as a single element or a max. RAM of 4500 × 2500 mm as a post / horizontal profile or coupling construction.

#### Notes:

##### Side element A / RS 300

Max. 4 horizontal rails and 3 vertical rails are possible

##### Transom light A / RS 300

Max. 2 horizontal rails and 3 vertical rails are possible

### Technical drawings

- Deduction dimensions for calculating the clear passage
- Fitting methods for brickwork, concrete, gas concrete, partition walls

See page 48

See from page 50

# Good reasons to try Hörmann steel loft doors



Industrial style for living areas and workspaces

**Large glazings with  
high-quality steel profiles**

**HÖRMANN**

# Aluminium smoke-tight door assemblies with thermal insulation

Hollow profiled section doors with thermal break – for exterior use

## Product description A / RS 100, A / RS 200

**Product description A / RS 100 – single-leaf and A / RS 200 – double-leaf**

Smoke-tight, ready-to-fit door set, tested in accordance with DIN 18095 for **exteriors**.

Each door assembly will be individually manufactured according to measurements.

### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Aluminium 3-way adjustable hinges, 2-part version, three-way adjustable, single-leaf: min. 2 units, double-leaf: min. 4 units
- Security bolt: single-leaf: 2 units, double-leaf: 4 units
- Single-leaf: overhead door closer with slide rail acc. to DIN EN 1154
- Double-leaf: 2 overhead door closers with slide rail acc. to DIN EN 1154 with integrated door leaf selector

#### ② Fittings

- Tubular frame mortice lock prepared for profile cylinder (31.5 / 65.5), rose escutcheon thickness 7 mm
- With aluminium lever handle set offset on both sides, with steel core, including lever handle rose escutcheons
- For double-leaf doors:  
Fixed leaf: rebate locking bolt and switch latch, locking at top and bottom as standard, two electric strikes required if necessary  
Traffic leaf: From RAM > 2150 mm with top locking, alternatively multiple-point locking (automatic)

#### ③ Seals

- All-round door seals on 3 sides
- All-round glazing seals in glass rebate
- Threshold rail with thermal break as door bottom edge

#### ④ Design

- Aluminium tubular frame made of extrusion profiles acc. to DIN 1725
- Double-shell with thermal insulation through a quality-assured, shear-resistant composite of 6.6 polyamide, 25 % fibre glass-reinforced

#### ⑤ Visible surfaces

- Aluminium profiles powder-coated or anodised
- Flush-fitting
- Viewed width of frame and leaf 150 mm
- Bottom section height 150 mm, optionally 105 mm (105 mm bottom section height not possible with threshold with thermal break)
- Depth 80 mm

#### ⑥ Glazing

- Insulated laminated safety glass, suitable as standard for outdoor use
- Glazing bead on hinge side, on request on opposite hinge side
- Weight with standard glazing approx. 35 kg/m<sup>2</sup>

### Size range (overall frame dimensions)

#### Single-leaf:

- Min. 605 × 1740 mm
- Max. 1500 × 3000 mm

#### Double-leaf:

- Min. 1355 × 1740 mm
- Max. 3000 × 3000 mm
- Traffic leaf division dimensions 750 – 1500 mm
- Fixed leaf division dimensions 500 – 1500 mm

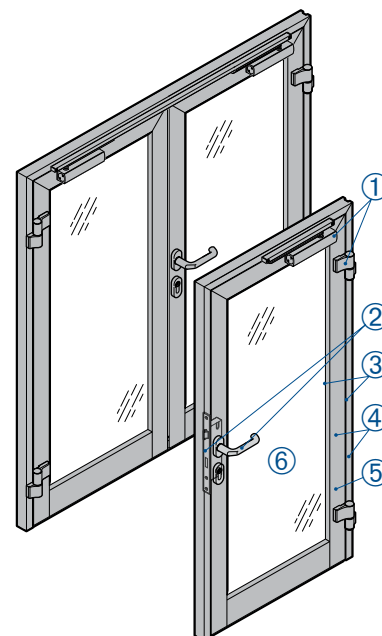
► **Hold-open devices and operators are not possible for external doors!**

► **Note the minimum overall width!**

#### Notice:

For doors with RAM height > 2150 mm, the traffic leaf must be equipped with top locking. If the traffic leaf is equipped with a lock (multiple-point locking, automatic), top locking is not required.

Max. 2 horizontal rails possible



RS	dB	RC 2	RC 3	Optional performance characteristics (Optional extras required in some cases here)	Accessories required for performance characteristic
				$R_{w,P}$ up to 40 dB	Glass, see page 175
				Up to 1.6 W/m <sup>2</sup> K	Insulated glass panes, see from page 174
				Up to class 5A	Threshold rail with thermal break, page 179
				RC 2, RC 3	RC 2, RC 3 security features, see from page 180
					From page 173
				Optional	Accessories from page 181
				Optional	RC 2 security features, see from page 181

# Technical drawings

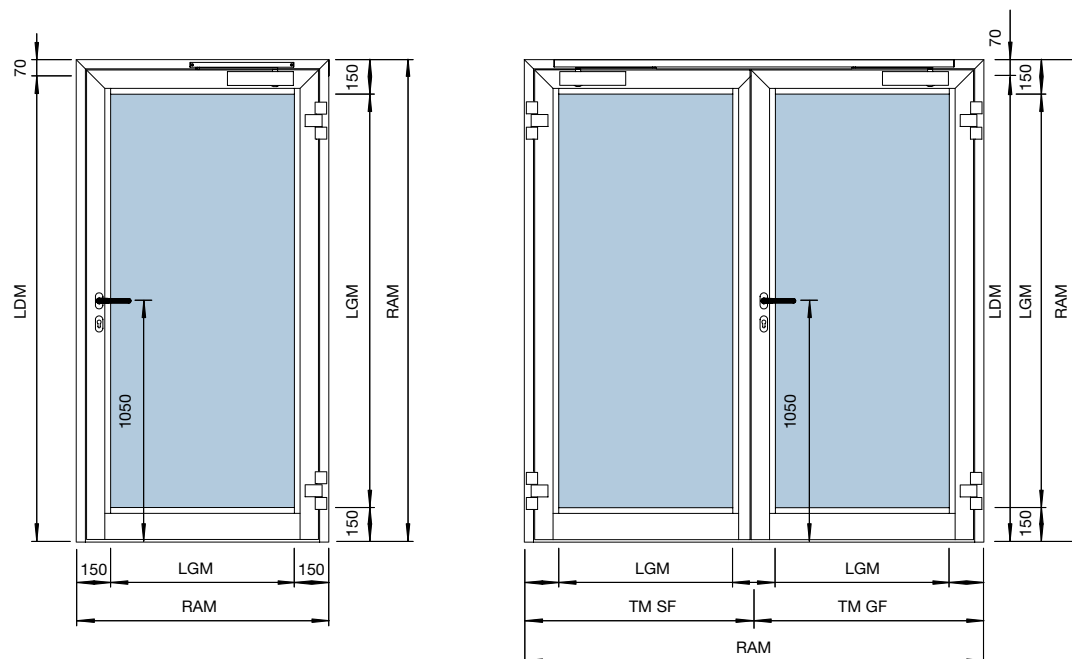
for A / RS 100, A / RS 200

RS

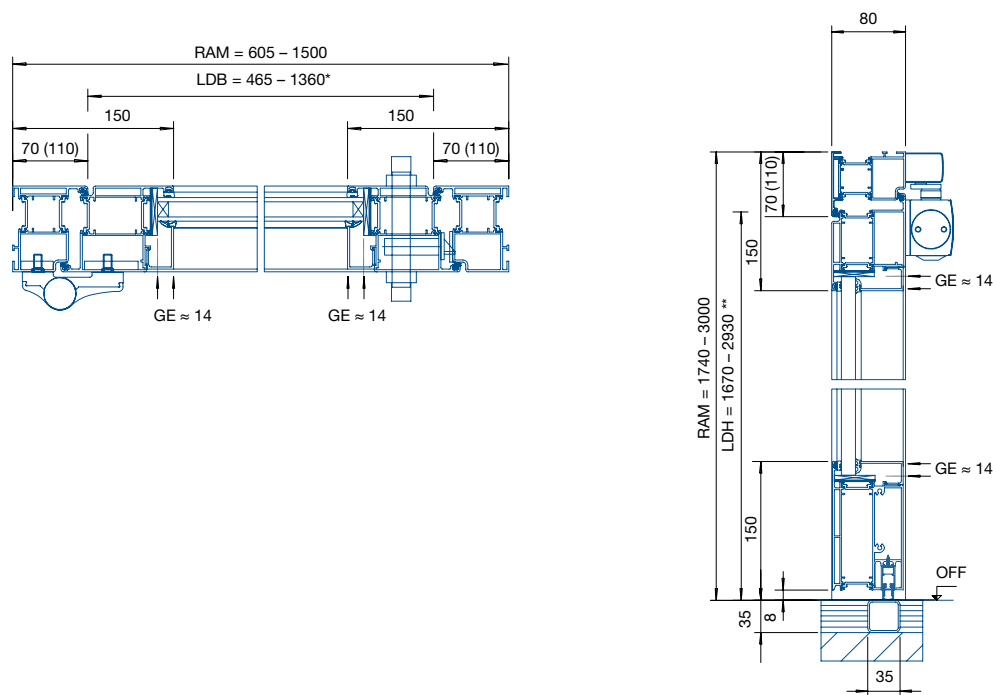


Subject to changes

## A / RS 100/200 aluminium



## A / RS 100/200 aluminium



### Technical drawings

- Deduction dimensions for calculating the clear passage
- Fitting methods for brickwork, concrete, gas concrete, partition walls

See page 48

See from page 50

**LDM** Clear passage dimension  
**LGM** Clear glass dimensions  
**OFF** Finished floor level  
**RAM** Overall frame dimension

**TM GF** Traffic leaf division  
**TM SF** Fixed leaf division



# Aluminium smoke-tight door assemblies

With frame without face – for interior use

## Product description A / RS 100, A / RS 200



Subject to changes

### Product description A / RS 100 – single-leaf and A / RS 200 – double-leaf

Smoke-tight, ready-to-fit door set for **interiors**.

Each door assembly will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Stainless steel guide rollers, two-way adjustable, single-leaf: min. 2 units, double-leaf: min. 4 units
- Security bolt: single-leaf: 2 units, double-leaf: 4 units
- Single-leaf: concealed overhead door closer with slide rail DIN EN 1154
- Double-leaf: concealed overhead door closer with slide rail DIN EN 1154 and integrated door leaf selector

#### ② Fittings

- Tubular frame mortice lock prepared for profile cylinder (31.5 / 65.5), rose escutcheon thickness 7 mm
- With aluminium lever handle set offset on both sides, with steel core, including lever handle rose escutcheons
- For double-leaf doors:  
Fixed leaf: rebate locking bolt and switch latch (top)

#### ③ Seals

- All-round door seals on 3 sides
- All-round glazing seals in glass rebate
- Door bottom edge with retractable bottom seal

#### ④ Design

Frame:

- Aluminium frame, two-part

Door leaf:

- Aluminium tubular frame made of extrusion profiles acc. to DIN 1725

Leaf profile:

- Double-shell with thermal insulation through a quality-assured, shear-resistant composite of 6.6 polyamide, 25 % fibre glass-reinforced

#### ⑤ Visible surfaces

- Aluminium profiles powder-coated or anodised
- Flush-fitting on hinge side
- Viewed width of frame and leaf 122.5 mm
- Bottom section height 150, 105 mm
- Wall width 100-200 mm

#### ⑥ Glazing

- Insulated laminated safety glass
- Glazing bead on hinge side
- Weight with standard glazing approx. 35 kg/m<sup>2</sup>

#### Size range (overall frame dimensions)

##### Single-leaf:

- Min. 788 × 1710 mm
- Max. 1415 × 2500 mm
- RAM including transom light max. 1415 × 3000 mm

##### Double-leaf:

- Min. 1538 × 1710 mm
- Max. 2810 × 2500 mm
- The minimum division dimension is 750 mm
- RAM including transom light max. 2810 × 3000 mm

#### ► Note the minimum overall width!

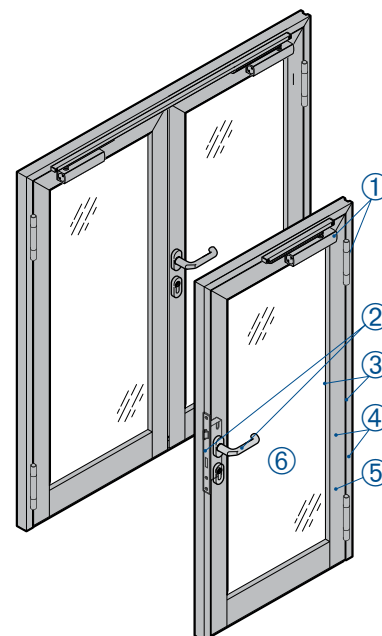
#### Notice:

Operators can be used for elements with transom light.

An additional top part of 9.5 mm in the lintel area must be observed for double-leaf doors without transom light. (Identical construction to HE 321.)

Doors with frame without face are only possible with the glazing bead arrangement on the hinge side (opening inwards).

Max. 2 horizontal rails possible

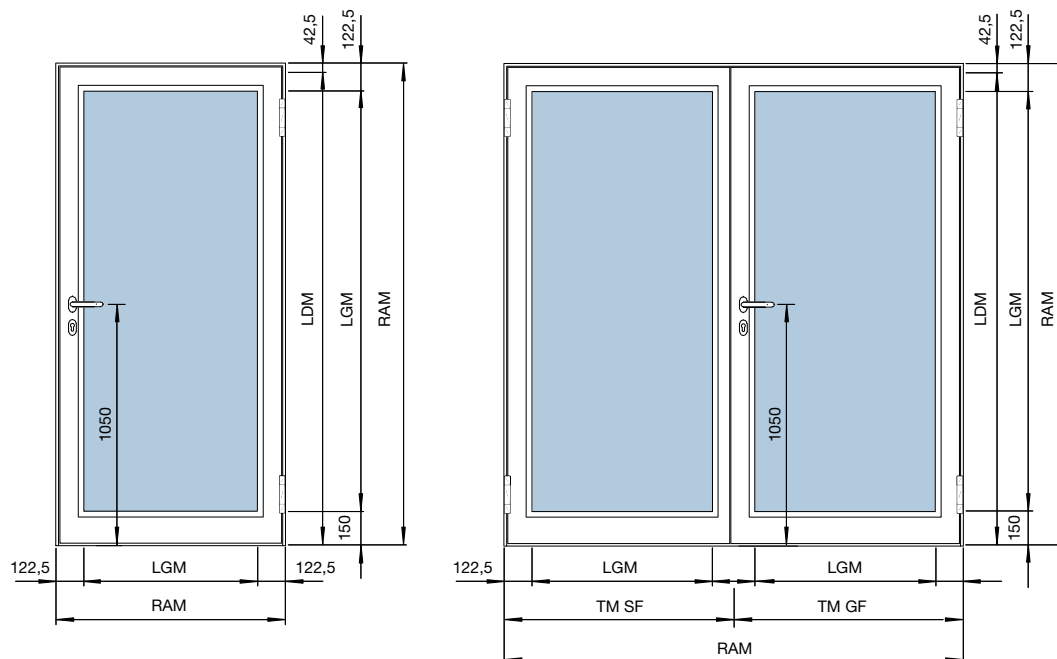


RS	dB	RC 2	RC 3		Optional performance characteristics	
					(Optional extras required in some cases here)	
					Acoustic insulation	R <sub>w,P</sub> up to 42 dB
					Break-in resistance equipment	RC 2, RC 3
					Escape door function	Optional
					Accessories required for performance characteristic	
						Glass, see page 175
						RC 2, RC 3 security features, see from page 180
						See page 181

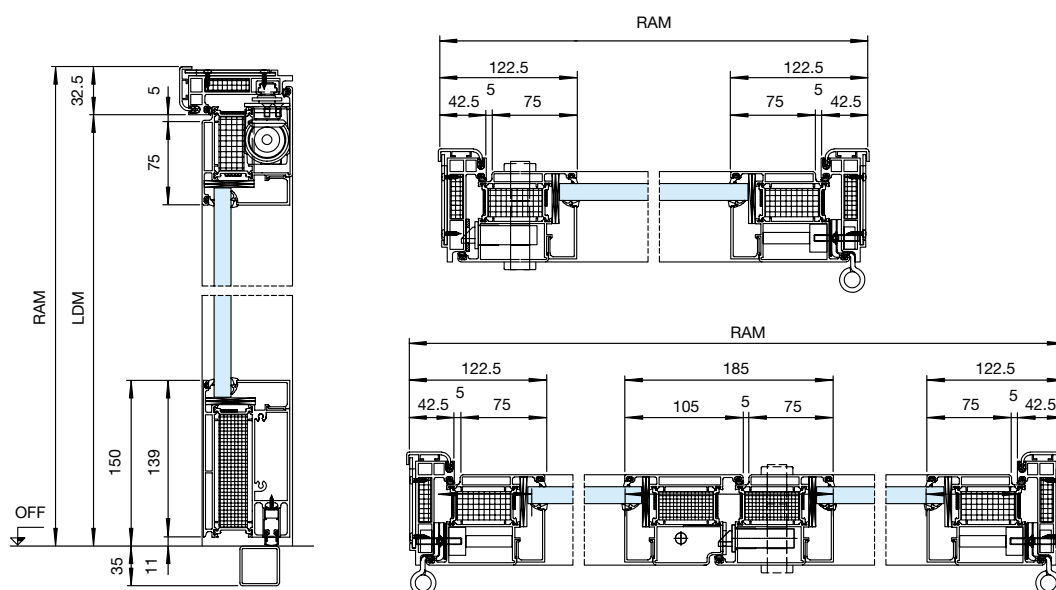




## A / RS 100/200 aluminium



## A / RS 100/200 aluminium



### Notice:

Illustrations based on T30 doors. No profile infill is required in the case of RS doors.

### Technical drawings

- Deduction dimensions for calculating the clear passage
- Fitting methods for brickwork, concrete, gas concrete, partition walls

See page 48

See from page 50

**LDM** Clear passage dimension  
**LGM** Clear glass dimensions  
**OFF** Finished floor level  
**RAM** Overall frame dimension

**TM GF** Traffic leaf division  
**TM SF** Fixed leaf division

# T30 / T60 / T90 aluminium fire-rated doors

With extensive glazing

## Technical drawings

T30

T60

T90



Subject to changes

### Deduction dimensions for calculating the clear passage

HE 3x1, HE 6x1, HE 9x1, A / RS x00 and OT80 – deduction dimensions for clear passage width at 90° open door leaf without handles and lever handles								
	Single-leaf Door	Double-leaf Door	Single-leaf Door		Double-leaf Door		Double-leaf traffic leaf	Double-leaf traffic leaf vertical profile construction
			Vertical profile construction One-sided	On both sides	Vertical profile construction One-sided	On both sides		One-sided
	(= RAM minus dim. stated below)		(= division dim. minus dim. stated below)					
Aluminium door hinge with 20 mm pivot point	– 214 mm	– 288 mm	– 194 mm	– 174 mm	– 268 mm	– 248 mm	– 157 mm	– 137 mm
Aluminium door hinge with pivot point 36 mm	– 230 mm	– 320 mm	– 210 mm	– 190 mm	– 300 mm	– 280 mm	– 173 mm	– 153 mm
Hörmann guide roller, 17 mm pivot point	– 210 mm	– 280 mm	– 190 mm	– 170 mm	– 260 mm	– 240 mm	– 153 mm	– 133 mm
Additional deduction for vertical profile construction opening outwards			– 60 mm	– 60 mm	– 60 mm	– 60 mm		– 30 mm

- The values for the vertical profile constructions are based on a **100 mm** vertical rail

### A / RS-x50, ES50 – deduction dimensions for clear passage width at 90° open door leaf without handles and lever handles

	Single-leaf Door	Double-leaf Door	Single-leaf door		Double-leaf door		Double-leaf traffic leaf	Double-leaf traffic leaf vertical profile construction
			Vertical profile construction One-sided	On both sides	Vertical profile construction One-sided	On both sides		One-sided
	(= RAM minus dim. stated below)		(= division dim. minus dim. stated below)					
Aluminium door hinge with 20 mm pivot point	– 184 mm	– 228 mm	– 164 mm	– 144 mm	– 208 mm	– 188 mm	– 127 mm	– 107 mm
Aluminium door hinge with pivot point 36 mm	– 200 mm	– 260 mm	– 180 mm	– 160 mm	– 240 mm	– 220 mm	– 143 mm	– 123 mm
Hörmann guide roller, 17 mm pivot point	– 180 mm	– 220 mm	– 160 mm	– 140 mm	– 200 mm	– 240 mm	– 118 mm	– 98 mm
Additional deduction for vertical profile construction opening outwards			– 60 mm	– 60 mm	– 60 mm	– 60 mm		– 30 mm

- The values for the vertical profile constructions are based on a **100 mm** vertical rail

### HE 3x1, HE 6x1, HE 9x1, A / RS-x00, A / RS-x50, ES50 – deduction dimensions for clear passage height

Calculation with retractable bottom seal	Single-leaf Door	Double-leaf Door	Single-leaf Door	Double-leaf Door
			Horizontal profile construction	Horizontal profile construction
	(= RAM minus dim. stated below)		(= division dim. minus dim. stated below)	
Opening inwards	– 70 mm	– 70 mm	– 50 mm	– 50 mm
Opening outwards	– 70 mm	– 70 mm	– 80 mm	– 80 mm

Good reasons to try Hörmann  
steel and aluminium tubular frame  
construction project doors



Maximum clear passage width

**Steel profile frame**

\* compared to door version with fascia frame

**HÖRMANN**

# T30 / T60 / T90 aluminium fire-rated doors

With extensive glazing

## Fitting methods

T30

T60

T90



Subject to changes

Fitting methods for brickwork, concrete, gas concrete, partition walls (see the fitting instructions for further fitting methods)

Wall connections		Aluminium tubular frame construction project doors			
	Function	T30	T60	T90	RS
<b>Brickwork</b>					
1	Plug-and-screw fitting	•	•	•	•
2	Anchor fitting	•			•
3	Fitting by welding	•	•	•	•
<b>Partition wall</b>					
4	Screw fixing, flush with wall	•	•	•	•
5	Screw fixing, timber	•	•		•
6	Fitting with UA profile	•			•
7	Fitting by welding	•	•	•	•

• = Standard

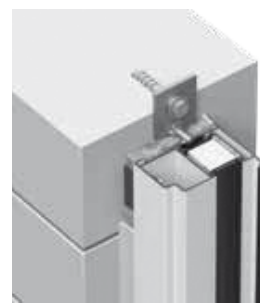
1



2



3



4



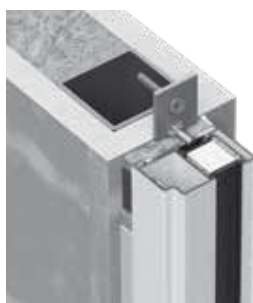
5



6



7



### Notice:

The illustrations apply to all product groups.

# T30 / T60 / T90 aluminium fire-rated doors

With extensive glazing

## Fitting methods

T30

T60

T90



Subject to changes

### Mixed connections

#### Notice:

Various wall types such as brickwork (1), concrete (2) or partition walls (3) may be used in construction projects depending on the intended use.

All Hörmann aluminium hollow profiled section doors can even be flexibly fitted in situations with different wall types to the left and right of the door and above it. For example, in a concrete wall with a lintel made from a partition wall.

To ensure professional installation, the fire protection requirements must be fulfilled with regard to the permitted wall connections.



# Aluminium smoke-tight door assemblies

With extensive glazing

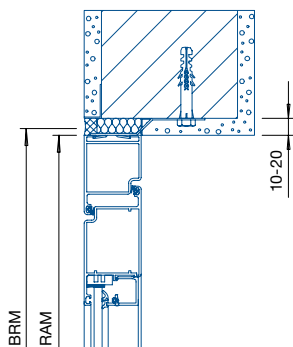
## Technical drawings



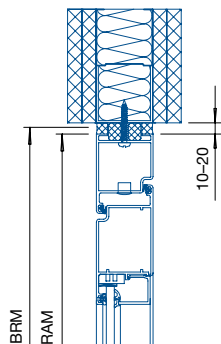
**Fitting methods for brickwork, concrete, gas concrete, partition walls** (see the fitting instructions for further fitting methods)

### A / RS 150 / 250 / 350 aluminium

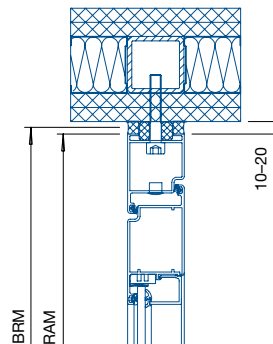
(Structural gap dimensions are recommendations)



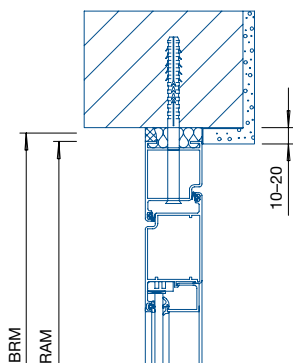
Anchor fitting  
with dowel bracket



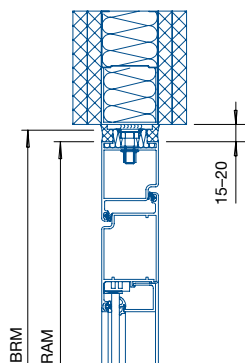
Screw fixing  
Prefabricated walls



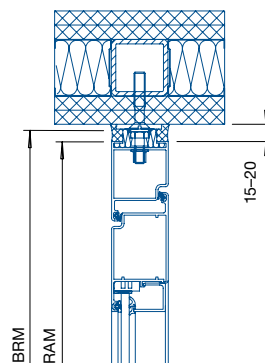
Screw fixing  
Prefabricated walls



Through-plug fitting  
Interior plaster



Fitting by welding  
Prefabricated walls



Fitting by welding  
Prefabricated walls

# Good reasons to try Hörmann steel tubular frame construction project doors



Particularly narrow door view

## **S-Line system**

**HÖRMANN**

# Powder coating on fire-rated doors

## Available surface finishes



### Standard colour

Powder-coated interior and exterior in RAL 9016 Traffic white or anodised E6 / EV 1

### Preferred colours

Powder-coated interior and exterior in the following listed surface finishes:

- RAL 3000 Fire red
- RAL 7016 Anthracite grey
- RAL 9005 Jet black
- RAL 9006 White aluminium
- RAL 9007 Grey aluminium
- DB 703 Anthracite

### RAL to choose

Powder-coated interior and exterior in RAL to choose

### Special colours

IGP and NCS surface finishes, Sikkens colours, pearl-effect colours.

### Notes:

#### Multi-colour systems

Multi-colour systems are charged the respective surcharge of the price category.

Example: interior RAL to choose, exterior special colour. 1 × surcharge for RAL to choose and 1 × surcharge for special colour.

#### Gloss levels:

- All colours are delivered in matt (gloss level  $35 \pm 5$ ) as standard
- Special gloss levels (gloss level  $75 \pm 10$ ) or high-gloss (gloss level  $> \text{approx. } 85$ , gloss points according to ISO 2813, 60 degree measuring angle) are available to order

Colouring of aluminium hollow profiled section doors			
Colour version	Colour version for supplied standard accessories		
Door	Overhead door closers	Hinges	Lever handles
RAL 9016	Silver-coloured	E6 / EV 1	Aluminium
E6 / EV 1	Silver-coloured	E6 / EV 1	Aluminium
RAL and special colours	Silver-coloured	E6 / EV 1	Aluminium

(Deviations from the standard are available for a surcharge)



# Good reasons to try Hörmann aluminium tubular frame construction project doors



Up to  
**55** mm  
wider clear  
passage width

Elegant door view without visible frame face

## Frame without face

\* compared to door version with fascia frame

# HÖRMANN

# General order information door closer systems / colour of fittings



## General information

### General order information

- All door assemblies are made to order.
- Doors and side element or transom light combinations are designed as a coupling construction and open inwards as standard (glazing beads on the hinge side). Please note any surcharges.
- The ordering size is always the overall frame dimension (RAM).
- The prices indicated in this price list are generally surcharges and are only valid in conjunction with a door order.
- The glass is supplied separate as standard but optional fitting of the infill in the leaf at the factory is possible at a surcharge. An additional delivery time of 1 week must be taken into account in this case.
- Double-leaf doors with frame without face are only supplied without glass (glass separate).
- The maximum loading size of a door assembly (incl. fitting / surface-mounted profiles) must not exceed 2700 mm on one side. If both sides of a door assembly are > 2500 mm, an extra charge of 50 euros must be taken into account due to the complex handling.

### Duty categories of doors

DIN EN 1192	<b>Class 3</b>	Doors – classification of strength requirements	<b>Usage category: high to extreme</b>
DIN EN 12217	<b>Class 3</b>	Doors – operating forces – requirements and classification	
DIN EN 12400	<b>Class 6</b>	Windows and doors – mechanical load	<b>Load: frequent</b>
DIN EN 13049	<b>Class 1</b>	Load with a soft, heavy impact	
DIN EN 1935	<b>Class 14</b>	Building hardware – single axis door and window hinges	<b>Usage: very high</b> (Dr. Walter Hahn hinges)

### Notes on door closers

- The surcharges listed for door closers are only valid in conjunction with a door order. Prices for separate delivery on request.

### Notes on door closers as hold-open devices

- Hold-open devices are suitable for holding open single- and double-leaf fire-rated and smoke-tight doors.
- Hold-open devices consist of a locking device, a smoke detector and a release device with power supply.
- The smoke switch control units of the respective manufacturer must be used with hold-open devices.
- Planning for a hold-open device is done in accordance with the DIBt decision-making diagram.
- Use of hold-open devices for fire-rated and smoke-tight doors has to be officially approved by the authorities. An acceptance test must be performed by authorised personnel before initial start-up.
- Depending on local requirements, more than 1 smoke detector may be necessary. These must be additionally ordered.
- All of the following prices for door closers / hinged leaf operators do not include fitting, electric installation or initial start-up. (Prices on request)
- When using hinged leaf operators, a security analysis must be carried out on site in accordance with DIN 18650 / DIN EN 16005. This analysis may determine that optional extras are necessary. An appropriate checklist can be downloaded at [www.hoermann.de](http://www.hoermann.de) or sent on request.
- Fitting parts such as overhead door closers, operators, lever handles and handles are delivered separately

Good reasons to try Hörmann  
steel and aluminium tubular frame  
construction project doors



Maximum clear passage width

**Steel profile frame**

\* compared to door version with fascia frame

**HÖRMANN**

# Statics for aluminium fire-rated door sets

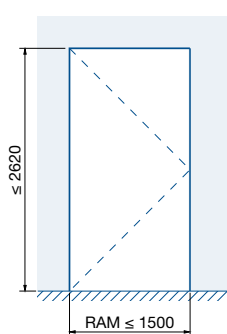
## Notes on assemblies without additional statics profiles

### HE 311, HE 321 and HE 331 – sizes available in the fast-track programme

This page will provide assistance in finding the simplest design for fire protection elements without the need to take statics into account. No fire protection profile H and no statics profile E will be required in the designs shown if the indicated maximum dimensions are complied with.

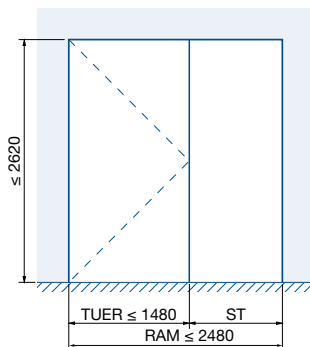
- ▶ ● All designs in compliance with the indicated maximum dimensions (not requiring statics profiles) are available in the fast-track programme
- ▶ Larger dimensions must be checked using the Hörmann statics programme.

#### HE 311 and HE 331 side element (vertical profile construction)



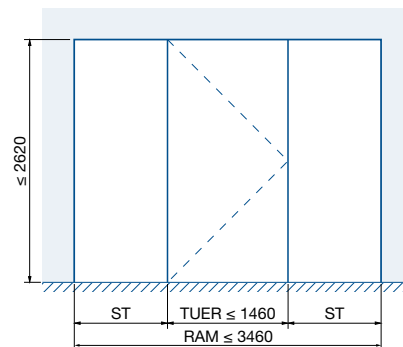
In this version:

- Available in the fast-track programme



In this version:

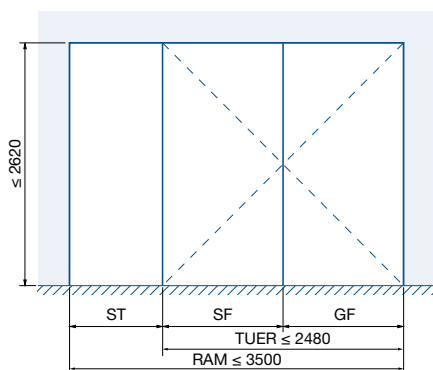
- Fire protection profile H and statics profile E not required
- Dimensions up to an overall width of 4100 mm are possible without statics profile E when coupled
- Available in the fast-track programme



In this version:

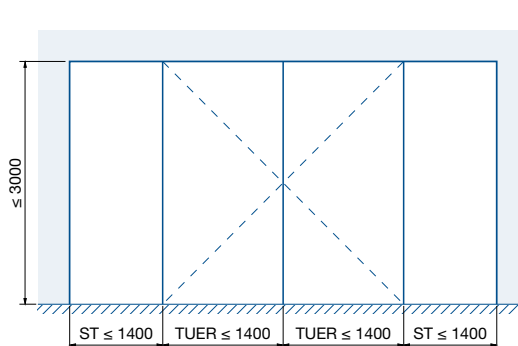
- Fire protection profile H and statics profile E not required
- Dimensions up to an overall width of 6000 mm are possible without statics profile E when coupled
- Available in the fast-track programme

#### HE 321 and HE 331 side element (vertical profile construction)



In these versions:

- Fire protection profile H and statics profile E not required
- Dimensions up to an overall width of 6000 mm are possible without statics profile E when coupled
- Available in the fast-track programme

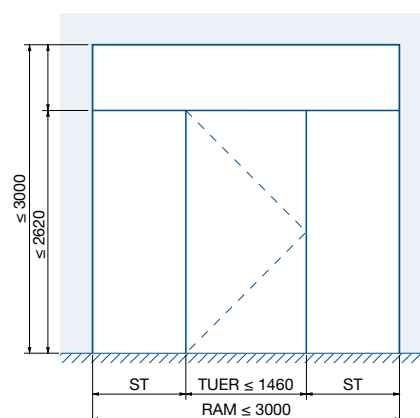
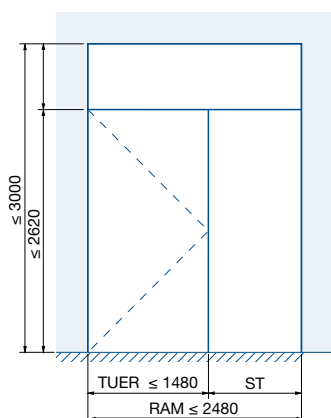


# Statics for aluminium fire-rated door sets

## Notes on assemblies without additional statics profiles

### HE 311, HE 321 and HE 331 – sizes available in the fast-track programme

#### HE 311 and HE 331 side element and HE 331 continuous transom light – (vertical / horizontal profile construction)



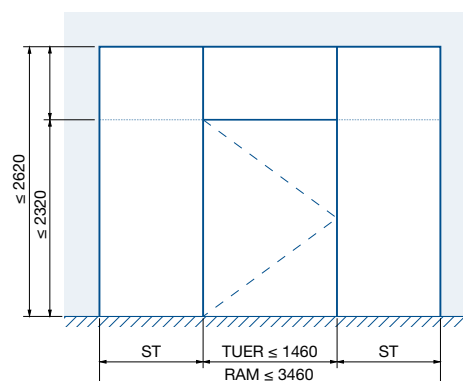
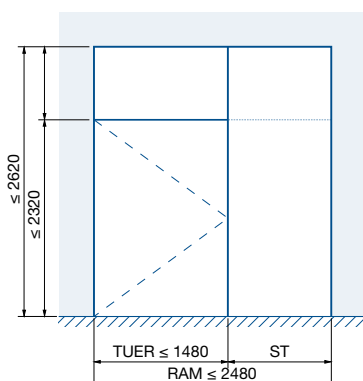
In this version:

- Larger dimensions are possible when coupled
- Max. total element width 3000 mm
- ● Available in the fast-track programme

In this version:

- Fire protection profile H and statics profile E not required
- Max. total element width 3000 mm
- ● Available in the fast-track programme

#### HE 311 and HE 331 continuous side element and HE 331 transom light (vertical / horizontal profile construction)



In these versions:

- Fire protection profile H and statics profile E not required
- Larger dimensions up to a max. total door set width of 4000 mm are possible without a statics profile when coupled
- ● Available in the fast-track programme

**RAM** Overall frame dimension  
**GF** Traffic leaf  
**SF** Fixed leaf  
**ST** Side element

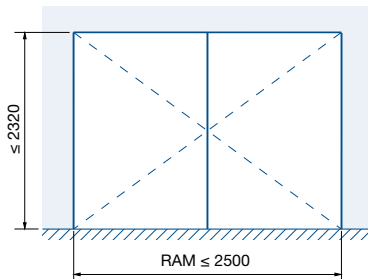
**TUER** Door  
**OL** Transom light

# Statics for aluminium fire-rated door sets

## Notes on assemblies without additional statics profiles

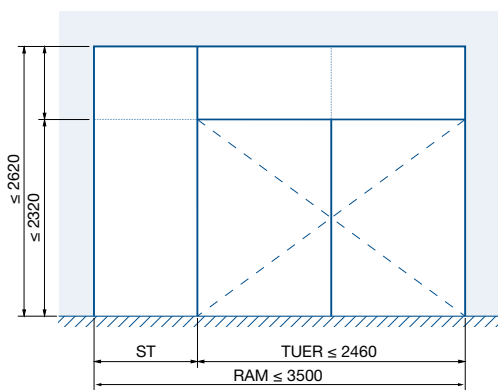
### HE 311, HE 321 and HE 331, sizes available in the fast-track programme

#### HE 321 and HE 331 continuous side element and HE 331 transom light (vertical / horizontal profile construction)



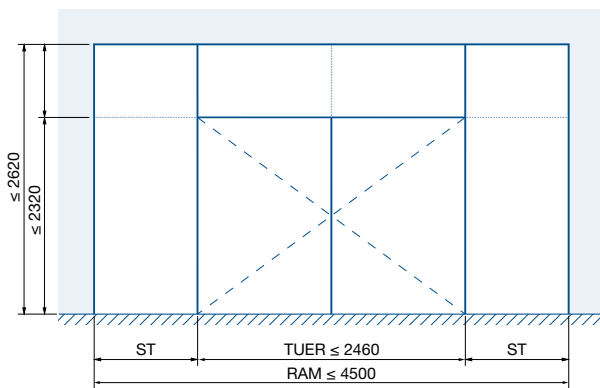
In this version:

- Available in the fast-track programme



In this version:

- Fire protection profile H and statics profile E not required
- Larger dimensions up to a max. total door set width of 4000 mm are possible without a statics profile when coupled
- Available in the fast-track programme



In this version:

- Fire protection profile H and statics profile E not required
- Larger dimensions up to a max. total door set width of 5500 mm are possible without a statics profile when coupled
- Available in the fast-track programme

#### HE 331 continuous side element and HE 331 transom light

- Separate side element max. 1480 × 2620 mm,
  - Available in the fast-track programme
- Separate transom light max. 2500 × 1000 mm,
  - Available in the fast-track programme

#### Optional glass-dividing rails

- Optional rails as a vertical or horizontal profile extension
  - Available in the fast-track programme

**RAM** Overall frame dimension  
**GF** Traffic leaf  
**SF** Fixed leaf  
**ST** Side element

**TUEP** Door  
**OL** Transom light

# Statics for aluminium fire-rated door sets

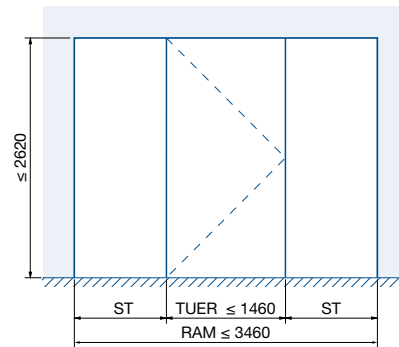
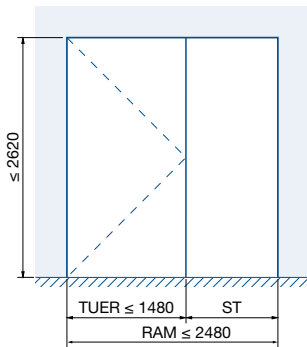
## Notes on assemblies without additional statics profiles

### HE 911, HE 921 and HE 931

This page will provide assistance in finding the simplest design for fire protection elements without the need to take statics into account. If the indicated maximum dimensions are complied with, the specified designs will not require statics profile E. The fire protection profile H is required for horizontal couplings or horizontal profiles > 1500 mm.

► Larger dimensions must be checked using the Hörmann statics programme.

#### HE 911 and HE 931 side element (vertical profile construction)



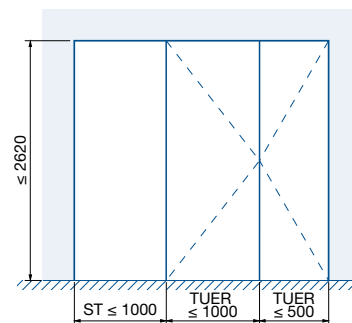
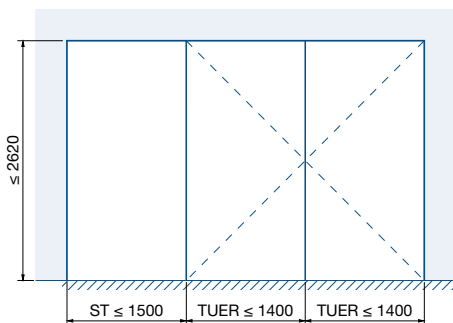
In this version:

- Fire protection profile H and statics profile E not required
- Larger dimensions up to a max. total door set width of 2850 mm are possible without a statics profile when coupled

In this version:

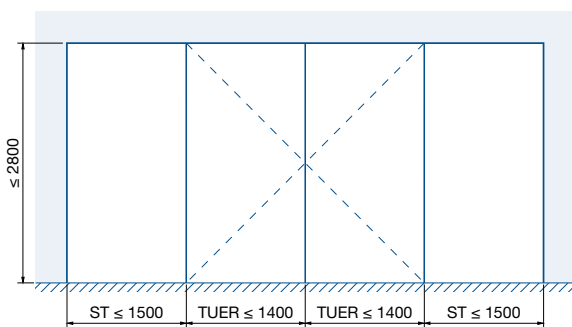
- A fire protection profile H is always required from a total width of 2850 mm

#### HE 911 and HE 931 side element (vertical profile construction)



- A vertical fire protection profile H is required if the total width is > 2850 mm

- No statics required
- A fire protection profile H is always required from a total width of 2850 mm



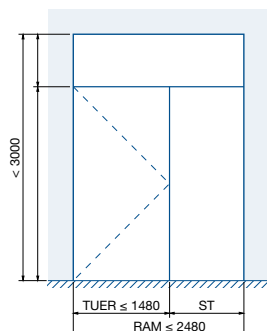
- A fire protection profile H (2 x vertical) is always required, even in the version with coupled side elements

# Statics for aluminium fire-rated door sets

## Notes on assemblies without additional statics profiles

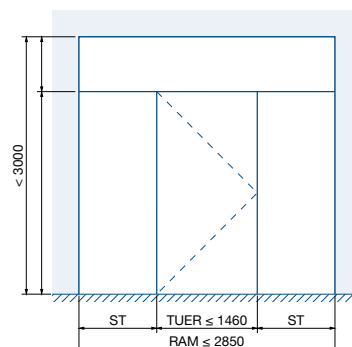
### HE 911, HE 921 and HE 931

#### HE 911 and HE 931 continuous side element and HE 931 transom light (vertical / horizontal profile construction)



In this version:

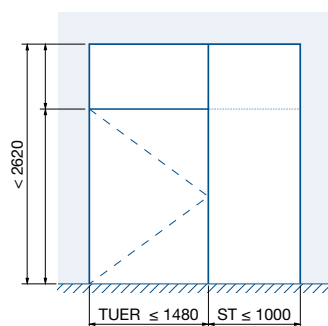
- No vertical statics required, as the total width is < 2850 mm
- Larger dimensions up to a max. total door set width of 2850 mm are possible without a statics profile when coupled



In this version:

- Fire protection profile H required on the horizontal profile from RAM > 2300 mm in width
- The element may not be wider than 2850 mm. A connection with further fire-proof glazing is not possible.

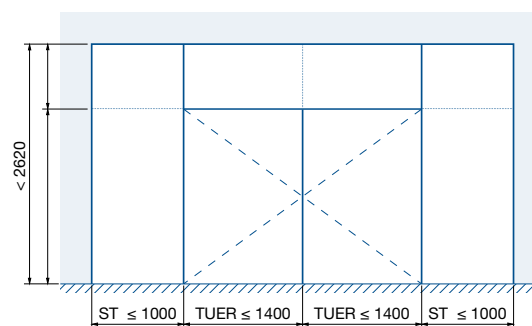
#### HE 911 with continuous side element and transom light



In this version:

- No fire protection profile H required
  - because: horizontal coupling / horizontal profile < 1500 mm
  - because: total width < 2850 mm

#### HE 921 with continuous side element and transom light (vertical / horizontal profile coupling construction)



In this version:

- A fire protection profile H (2 x vertical and 1 x horizontal) is always required, even in the version with coupled side elements
  - because: horizontal coupling / horizontal profile > 1500 mm
  - because: a fire protection profile H is required every 2850 mm
  - because: total width > 2850 mm

**RAM** Overall frame dimension  
**GF** Traffic leaf  
**SF** Fixed leaf  
**ST** Side element

**TUER** Door  
**OL** Transom light

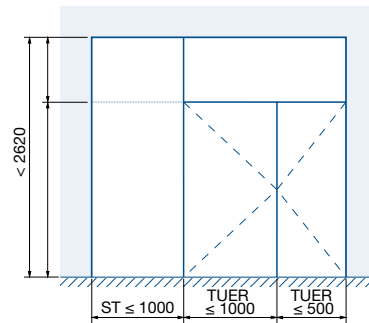
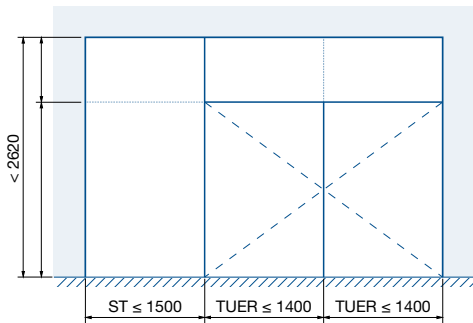


# Statics for aluminium fire-rated door sets

## Notes on assemblies without additional statics profiles

### HE 911, HE 921 and HE 931

#### HE 921 with continuous side element and transom light



In this version:

- Fire protection profile H required (vertical and horizontal), even in the version with coupled side elements
  - when: RAM door  $> 2300$  mm in width (horizontal)
  - when: Overall width  $> 2850$  mm (vertical)

In this version:

- NO fire protection profile H required
  - because: RAM door  $< 2300$  mm in width
  - because: total width  $< 2850$  mm

# Statics for aluminium smoke-tight door sets

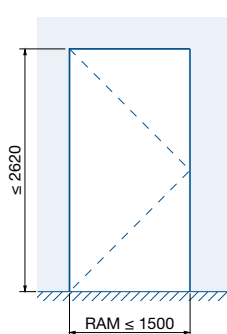
## Notes on assemblies without additional statics profiles

### A / RS-100, A / RS-200 and A / RS-300 – sizes available in the fast-track programme

This page will assist you in finding the simplest design for smoke-tight door sets without the need to take statics into account. No fire protection profile H and no statics profile E will be required in the designs shown if the indicated maximum dimensions are complied with.

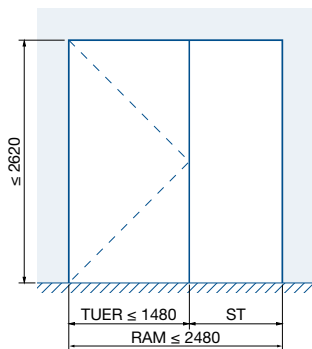
- ▶ **Available in the fast-track programme**
- ▶ **Larger dimensions must be checked using the Hörmann statics programme.**

#### A / RS 100 and A / RS 300 side element (vertical profile construction)



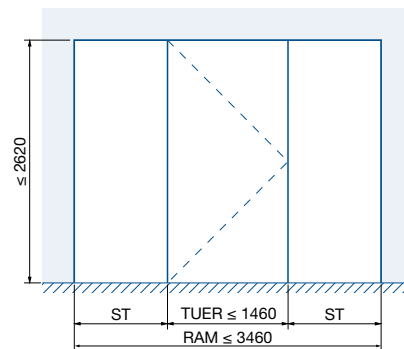
In this version:

- Available in the fast-track programme



In this version:

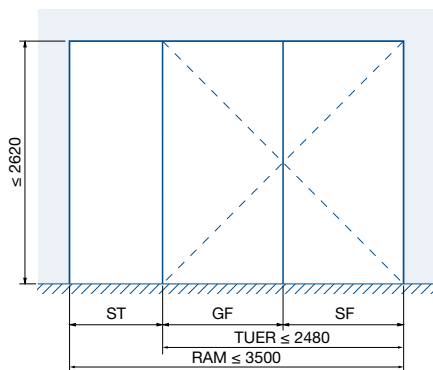
- Statics profile E not required
- Dimensions up to an overall width of 4100 mm are possible without statics profile E when coupled
- Available in the fast-track programme



In this version:

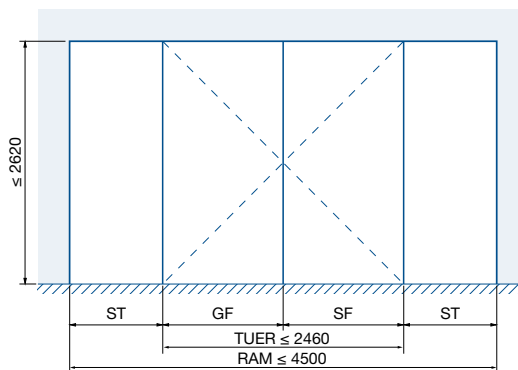
- Statics profile E not required
- Dimensions up to an overall width of 6000 mm are possible without statics profile E when coupled
- Available in the fast-track programme

#### A / RS 200 and A / RS 300 side element (vertical profile construction)



In these versions:

- Statics profile E not required
- Dimensions up to an overall width of 6000 mm are possible without statics profile E when coupled
- Available in the fast-track programme

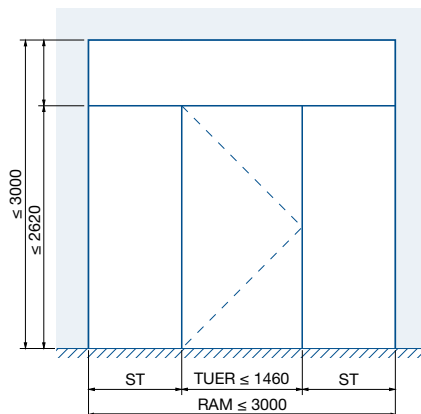
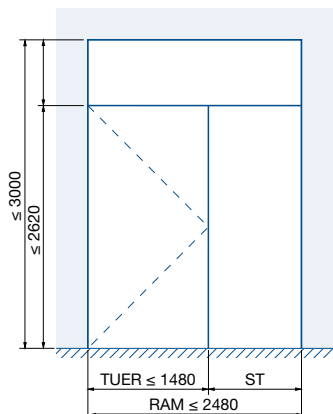


# Statics for aluminium smoke-tight door sets

Notes on assemblies without additional statics profiles

A / RS-100, A / RS-200 and A / RS-300 – sizes available in the fast-track programme

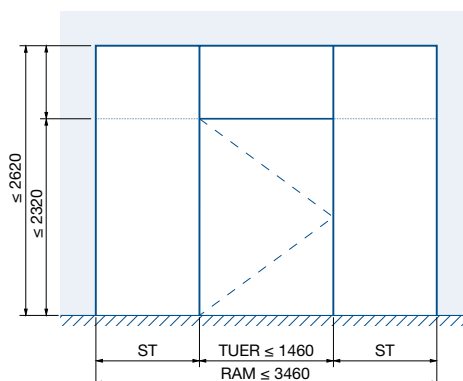
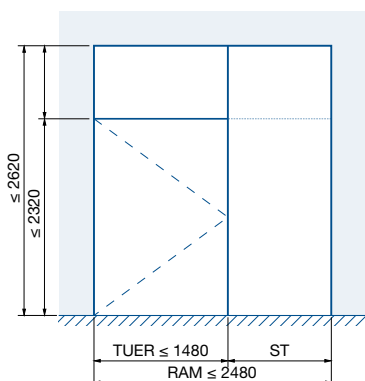
A / RS 100 and A / RS 300 side element and A / RS 300 continuous transom light  
(vertical / horizontal profile construction)



In these versions:

- Statics profile E not required
- Max. total element width 3000 mm
- ● Available in the fast-track programme

A / RS 100 and A / RS 300 continuous side element and A / RS 300 transom light  
(vertical / horizontal profile construction)



In these versions:

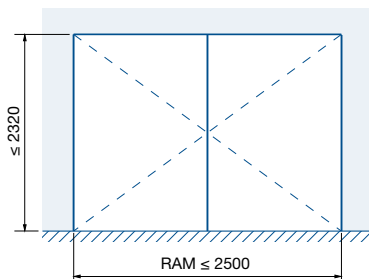
- Statics profile E not required
- Larger dimensions up to a max. total door set width of 4000 mm are possible without a statics profile when coupled
- ● Available in the fast-track programme

# Statics for aluminium fire-rated door sets

## Notes on assemblies without additional statics profiles

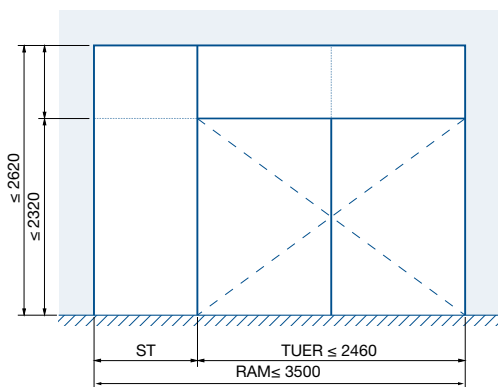
### A / RS-100, A / RS-200 and A / RS-300 – sizes available in the fast-track programme

#### A / RS 200 and A / RS 300 continuous side element and A / RS 300 transom light (vertical / horizontal profile construction)



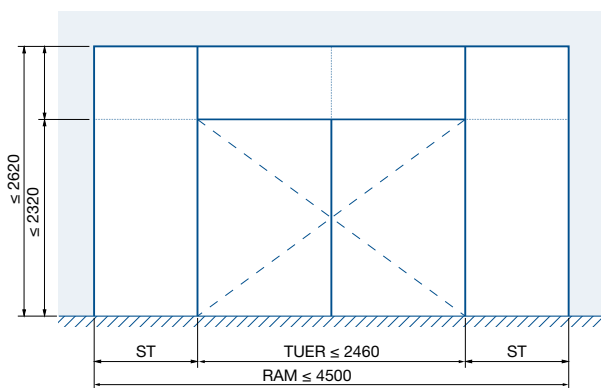
In this version:

- Available in the fast-track programme



In this version:

- Statics profile E not required
- Larger dimensions up to a max. overall door set width of 4000 mm are possible without a statics profile when coupled
- Available in the fast-track programme



In this version:

- Statics profile E not required
- Larger dimensions up to a max. total door set width of 5500 mm are possible without a statics profile when coupled
- Available in the fast-track programme

#### A / RS 300 continuous side element and A / RS 300 transom light

- Separate side element max. 1480 x 2620 mm,
  - Available in the fast-track programme
- Separate transom light max. 2500 x 1000 mm,
  - Available in the fast-track programme

#### Optional glass-dividing rails

- Optional rails as a vertical or horizontal profile extension
  - Available in the fast-track programme

# Good reasons to try Hörmann steel loft doors

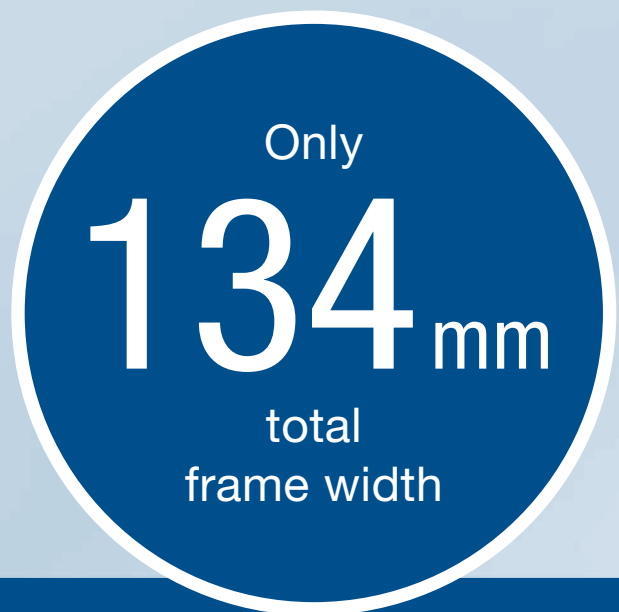


Industrial style for living areas and workspaces

**Large glazings with  
high-quality steel profiles**

**HÖRMANN**

# Good reasons to try Hörmann steel tubular frame construction project doors



Particularly narrow door view

## **S-Line system**

**HÖRMANN**

# Aluminium tubular frame parts

## Contents



Aluminium fire-rated doors				From page
<b>T30 / EI<sub>230</sub></b>				
	HE 311	Single-leaf	Fire-retarding	70
	HE 321	Double-leaf	Fire-retarding	76
	F30 transom lights and side elements HE 331		Fire-retarding and smoke-tight	84
<b>Frames for T30 fire-rated doors</b>				
	Corner and profile frames			90
<b>T60</b>				
	T60-1 door HE 611	Single-leaf	High fire resistance	94
	T60-2 door HE 621	Double-leaf	High fire resistance	96
	F60 transom lights and side elements HE 631		High fire resistance and smoke-tight	102
<b>T90</b>				
	T90-1 door HE 911	Single-leaf	Fire-proof	94
	T90-2 door HE 921	Double-leaf	Fire-proof	96
	F90 transom lights and side elements HE 931		Fire-proof and smoke-tight	102



Aluminium smoke-tight door assemblies				From page
<b>Smoke-tight door assemblies</b>				
	A / RS 150 door	Single-leaf		110
	A / RS 250 door	Double-leaf		114
	A / RS 350 glazing			122
<b>Insulated smoke-tight door assemblies</b>				
	A / RS 100 door	Single-leaf	Insulated	130
	A / RS 200 door	Double-leaf	Insulated	134
	A / RS 300 glazing		Insulated	144
<b>Frames for smoke-tight door assemblies</b>				
	Corner and profile frames			90



Aluminium internal doors				From page
	ES 50 door	Single-leaf		152
		Double-leaf		156
	ES 50 glazing	Side element / fixed glazing		162
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	Corner and profile frames			168

<b>Overhead door closers</b>	From page 196
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<b>Fittings and optional extras</b>	From page 182
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<b>Operators</b>	From page 208
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# HE 311 – aluminium hollow profiled section door

Fire-rated doors T30 / EI<sub>2</sub>30, single-leaf

T30

Approved as	T30 internal door	EI <sub>2</sub> 30 external door	T30 internal door	T30 internal door
	<b>HE 311</b>	<b>HE 311</b>	<b>HE 311</b> With frame without face	<b>HE 311</b> With steel frame
Depth [mm]	80	80	80	80
RAM width (min – max) [mm]	605 – 1500	605 – 1500	788 – 1415	BRM 535 – 1430
RAM height (min – max) [mm]	1740 – 3920	1740 – 3000	1710 – 2500	BRM 1705 – 2965
RAM including transom light max. [mm]			1415 x 3000	BRM 1430 – 3500
Optional additional functions	  RC 2 RC 3 	  RC 2 RC 3  	  RC 2 RC 3 	  RC 2 RC 3 

## Detailed product description

Technical description, fitting instructions, fast-track programme

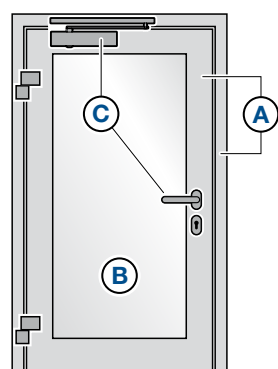
HE 311

HE 311 with frame without face

HE 311 in external applications

HE 311 with steel frame

See page 24



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 x mortice lock BKS 1828
- 2 x 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



## Frame / leaf

Ordering sizes (RAM) up to width x up to height			Frame / door leaf price  HE 311 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1020	x	2010	<b>2977</b>	1,30	146	189	284
		2135	<b>3024</b>	1,39	150	194	292
		2290	<b>3083</b>	1,51	153	199	298
		2385	<b>3119</b>	1,58	157	205	306
		2510	<b>3165</b>	1,67	161	209	314
		2600	<b>3198</b>	1,74	164	212	318
		2710	<b>3239</b>	1,82	165	215	322
		2885	<b>3305</b>	1,95	168	219	328
1145	x	3000	<b>3347</b>	2,04	170	221	332
		2010	<b>3024</b>	1,52	152	198	297
		2135	<b>3070</b>	1,63	156	203	305
		2290	<b>3128</b>	1,76	158	206	308
		2385	<b>3165</b>	1,84	162	211	316
		2510	<b>3212</b>	1,95	165	215	322
		2600	<b>3245</b>	2,03	167	217	325
		2710	<b>3287</b>	2,13	169	220	330
1270	x	2885	<b>3351</b>	2,28	174	226	341
		3000	<b>3395</b>	2,38	180	234	349
		2010	<b>3070</b>	1,73	157	205	306
		2135	<b>3119</b>	1,86	161	209	314
		2290	<b>3176</b>	2,01	165	215	322
		2385	<b>3212</b>	2,11	167	217	325
		2510	<b>3257</b>	2,23	169	220	330
		2600	<b>3292</b>	2,32	171	222	334
		2710	<b>3334</b>	2,43	174	226	341
		2885	<b>3399</b>	2,61	182	236	354
		3000	<b>3442</b>	2,72	184	238	358

► For additional size ranges, see next page

## Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**33**

## Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

**1192**

## HE 311 in external applications



Threshold with thermal break for water tightness under heavy rain (*standard* for outside application)

**115**

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

**449**

F30 insulated glazing (U-value: 1.1)

Per m<sup>2</sup>

**1536**



# Glazings, door fittings, additional functions

## HE 311 – aluminium hollow profiled section door



B	Glazing (standard delivery glass / panel separate)			Surcharge €
	Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications		No.	max. glass dimensions	Per m² €
Standard F30 glazing		893	1400 × 2700 mm	836
F30 glazing with matt PVB plastic film		687	1400 × 2500 mm	1156
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)		502	1200 × 2500 mm	771
For external applications		No.	max. glass dimensions	Per m² €
F30 insulated glazing (as standard for external applications, U-value: 1.1)		407	1250 × 3000 mm	1536
F30 insulated glazing with matt PVB plastic film		555	1250 × 3000 mm	2111

Door fitting / additional function		Surcharge €	
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	Standard	Aluminium 98
			Stainless steel 137
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC		Aluminium 147
			Stainless steel 216
	• <b>HDC 35</b> EN 3 – 5 with slide rail • Fitting on opening side (hinge side) • RAM width min. 605 mm, max. 1270 mm	Standard	Silver-coloured 213
			RAL to choose 276
	• <b>TS 5000</b> EN 2 – 6 with slide rail • Fitting on opening side (hinge side) • RAM width min. 605 mm, max. 1500 mm	Standard	Silver-coloured 308
			RAL to choose 360
	• Mortice lock BKS 1828		Standard
	• Mortice lock BKS 1820 for change-over function B	Anti-panic function, single-leaf / half anti-panic, double-leaf	298
	• Mortice lock BKS 1824 for passage function D	Anti-panic function, single-leaf / half anti-panic, double-leaf	227
	• Mortice lock BKS 1826 for lever / knob function E	Anti-panic function, single-leaf / half anti-panic, double-leaf	144
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1	Standard
		RAL to choose	Per hinge 62
		Stainless steel look	Per hinge 86
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel	Per hinge 175
		RAL to choose	Per hinge 207
		Smoke-tight acc. to DIN 18095 / DIN EN 1634-3	
	<b>Retractable bottom seal</b>		
	• For fitting on a smooth, level floor		Single-leaf 175
	⚠ Limited leak tightness of doors in outside application		
	<b>Delayed retractable bottom seal</b>		
	• Suitable with different pressure ratios (loading houses)		Single-leaf 325
	• For fitting on a smooth, level floor		
	⚠ Limited leak tightness of doors in outside application		
	<b>Floor covering transition profile</b>		
	Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor		Single-leaf 36


















### Accessories

<b>Glazings and infills</b>	See from page 174
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 196
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 90

# HE 311 – aluminium hollow profiled section door

Fire-rated doors T30 / EI<sub>2</sub>30, single-leaf

T30

Approved as	T30 internal door	EI <sub>2</sub> 30 external door	T30 internal door	T30 internal door
	<b>HE 311</b>	<b>HE 311</b>	<b>HE 311</b> With frame without face	<b>HE 311</b> With steel frame
Depth [mm]	80	80	80	80
RAM width (min – max) [mm]	605 – 1500	605 – 1500	788 – 1415	BRM 535 – 1430
RAM height (min – max) [mm]	1740 – 3920	1740 – 3000	1710 – 2500	BRM 1705 – 2965
RAM including transom light max. [mm]			1415 x 3000	BRM 1430 – 3500
Optional additional functions	   	    	   	   

## Detailed product description

Technical description, fitting instructions, fast-track programme

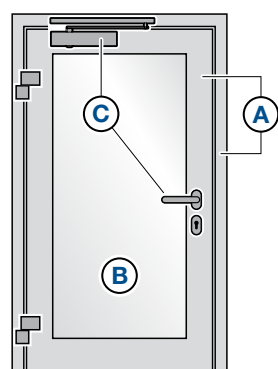
HE 311

HE 311 with frame without face

HE 311 in external applications

HE 311 with steel frame

See page 33



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 x mortice lock BKS 1828
- 2 x 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part





### Frame / leaf

Ordering sizes (RAM) up to width x up to height			Frame / door leaf price  HE 311 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1370	x	2010	<b>3108</b>	1,91	157	205	306
		2135	<b>3155</b>	2,05	161	209	314
		2290	<b>3214</b>	2,22	165	215	322
		2385	<b>3250</b>	2,32	166	216	324
		2510	<b>3295</b>	2,46	169	220	330
		2600	<b>3330</b>	2,56	171	222	334
		2710	<b>3370</b>	2,68	174	226	341
		2885	<b>3437</b>	2,87	183	237	355
		3000	<b>3480</b>	3,00	185	239	359
1500	x	2010	<b>3156</b>	2,13	162	211	316
		2135	<b>3204</b>	2,29	165	215	322
		2290	<b>3261</b>	2,48	169	220	330
		2385	<b>3298</b>	2,59	171	222	334
		2510	<b>3344</b>	2,75	174	226	341
		2600	<b>3378</b>	2,86	180	234	349
		2710	<b>3420</b>	2,99	183	237	355
		2885	<b>3484</b>	3,21	187	242	364
		3000	<b>3529</b>	3,35	189	247	370

► State opening sense on order!

\* For an overview of available surface finishes, see page 54

Other door versions		Surcharge €
	Frame view 110 mm instead of 70 mm (standard)	Per m <b>33</b>
<b>Aluminium frame without face</b>		
Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96		<b>1192</b>
<b>HE 311 in external applications</b>		
	Threshold with thermal break for water tightness under heavy rain ( <i>standard</i> for outside application)	<b>115</b>
	Top locking (only for doors from RAM height > 2150 mm, optional triple lock)	<b>449</b>
	F30 insulated glazing (U-value: 1.1)	Per m <sup>2</sup> <b>1536</b>

# Glazings, door fittings, additional functions

## HE 311 – aluminium hollow profiled section door



B	Glazing (standard delivery glass / panel separate)		Surcharge €
	Fitting of the glass or panel at the factory (observe the order information on page 56!)		Per leaf 198
For interior applications		No. max. glass dimensions	Per m² €
Standard F30 glazing		893 1400 × 2700 mm	836
F30 glazing with matt PVB plastic film		687 1400 × 2500 mm	1156
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)		502 1200 × 2500 mm	771
For external applications		No. max. glass dimensions	Per m² €
F30 insulated glazing (as standard for external applications, U-value: 1.1)		407 1250 × 3000 mm	1536
F30 insulated glazing with matt PVB plastic film		555 1250 × 3000 mm	2111

C	Door fitting / additional function		Surcharge €	
			Standard	Aluminium
	• <b>Lever handle set D116</b> , oval rose escutcheon PC			<b>98</b>
				Stainless steel <b>137</b>
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC			<b>147</b>
				Stainless steel <b>216</b>
	• <b>HDC 35</b> EN 3 – 5 with slide rail		<i>Standard</i>	Aluminium <b>213</b>
	• Fitting on opening side (hinge side)			Stainless steel <b>276</b>
	• RAM width min. 605 mm, max. 1270 mm			
	• <b>TS 5000</b> EN 2 – 6 with slide rail		<i>Standard</i>	Aluminium <b>308</b>
	• Fitting on opening side (hinge side)			Stainless steel <b>360</b>
	• RAM width min. 605 mm, max. 1500 mm			
	• Mortice lock BKS 1828		<i>Standard</i>	
	• Mortice lock BKS 1820 for change-over function B		Anti-panic function, single-leaf / half anti-panic, double-leaf	<b>298</b>
	• Mortice lock BKS 1824 for passage function D		Anti-panic function, single-leaf / half anti-panic, double-leaf	<b>227</b>
	• Mortice lock BKS 1826 for lever / knob function E		Anti-panic function, single-leaf / half anti-panic, double-leaf	<b>144</b>
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable		EV1	<i>Standard</i>
	⚠ Please take into consideration 2 hinges for the leaf!		RAL to choose	Per hinge <b>62</b>
			Stainless steel look	Per hinge <b>86</b>
	• Hörmann guide roller, 2-way adjustable		Stainless steel	Per hinge <b>175</b>
	⚠ Please take into consideration 2 hinges for the leaf!		RAL to choose	Per hinge <b>207</b>

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

	<b>Retractable bottom seal</b>			
	• For fitting on a smooth, level floor		Single-leaf	<b>175</b>
	⚠ Limited leak tightness of doors in outside application			
	<b>Delayed retractable bottom seal</b>			
	• Suitable with different pressure ratios (loading houses)		Single-leaf	<b>325</b>
	• For fitting on a smooth, level floor			
	<b>Floor covering transition profile</b>			
	Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor		Single-leaf	<b>36</b>














### Accessories

<b>Glazings and infills</b>	See from page 174
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b>	See from page 182
Lever handle sets, profile cylinders, locks and electric extras	
<b>Door closers, hold-open devices and operators</b>	See from page 196
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 90

# HE 321 – aluminium hollow profiled section door

T30

Fire-rated doors T30 / EI<sub>2</sub>30, double-leaf

Approved as	T30 internal door	EI <sub>2</sub> 30 external door	T30 internal door	T30 internal door
	<b>HE 321</b>	<b>HE 321</b>	<b>HE 321</b> With frame without face	<b>HE 321</b> With steel frame
Depth [mm]	80	80	80	80
RAM width (min – max) [mm]	1355 × 3000	1400 × 3000	1538 × 2810	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 × 4000	1740 × 3000	1710 × 2500	BRM 1705 × 2965
RAM including transom light max. [mm]			2810 × 3000	BRM 2930 × 3500
Optional additional functions	  RC 2 	  RC 2  	  RC 2 	  RC 2 

## Detailed product description

Technical description, fitting instructions, fast-track programme

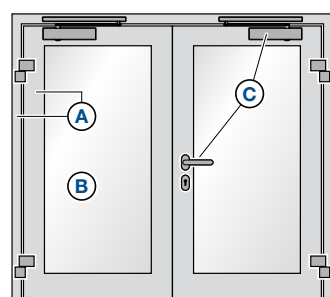
HE 321

HE 321 with frame without face

HE 321 in external applications

HE 321 with steel frame

See page 24



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  HE 321 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1500	×	2010	<b>4895</b>	1,86	242	316	475
		2135	<b>4943</b>	2,00	247	321	480
		2290	<b>5003</b>	2,16	253	328	493
		2385	<b>5038</b>	2,26	255	332	498
		2510	<b>5087</b>	2,40	260	340	509
		2600	<b>5121</b>	2,49	262	342	512
		2710	<b>5163</b>	2,61	269	348	522
		2885	<b>5230</b>	2,80	273	355	533
1645	×	3000	<b>5274</b>	2,92	275	358	536
		2010	<b>4949</b>	2,11	248	323	485
		2135	<b>4999</b>	2,27	253	328	493
		2290	<b>5057</b>	2,45	260	340	509
		2385	<b>5094</b>	2,57	262	342	512
		2510	<b>5141</b>	2,72	269	348	522
		2600	<b>5176</b>	2,83	271	350	527
		2710	<b>5219</b>	2,96	274	356	534
1770	×	2885	<b>5286</b>	3,18	279	364	548
		3000	<b>5330</b>	3,32	284	369	552
		2010	<b>4999</b>	2,33	254	329	495
		2135	<b>5045</b>	2,50	258	334	504
		2290	<b>5106</b>	2,71	268	346	518
		2385	<b>5141</b>	2,83	270	349	526
		2510	<b>5191</b>	3,00	273	355	533
		2600	<b>5225</b>	3,12	276	360	541
		2710	<b>5267</b>	3,27	279	364	548
		2885	<b>5333</b>	3,50	287	372	560
		3000	<b>5378</b>	3,66	291	378	567

► For additional size ranges, see next page

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**33**

### Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

**2486**

### HE 321 in external applications



Threshold with thermal break for water tightness under heavy rain (*standard* for outside application)

**230**

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

**449**

F30 insulated glazing (U-value: 1.1)

Per m<sup>2</sup>

**1536**

# Glazings, door fittings, additional functions

## HE 321 – aluminium hollow profiled section door



B	Glazing (standard delivery glass / panel separate)			Surcharge €
	Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications		No.	max. glass dimensions	Per m² €
Standard F30 glazing		893	1400 × 2700 mm	836
F30 glazing with matt PVB plastic film		687	1400 × 2500 mm	1156
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)		502	1200 × 2500 mm	771
For external applications		No.	max. glass dimensions	Per m² €
F30 insulated glazing (as standard for external applications, U-value: 1.1)		407	1250 × 3000 mm	1536
F30 insulated glazing with matt PVB plastic film		555	1250 × 3000 mm	2111

C	Door fitting / additional function		Surcharge €	
			Standard	Aluminium
	• Lever handle set D116, oval rose escutcheon PC			98
				Stainless steel 137
	• Lever / knob handle set D116 with knob K117, oval rose escutcheon PC			Aluminium 147
				Stainless steel 216
	• TS 5000 ISM with slide rail		Standard	Silver-coloured 646
	• Fitting on opening side (hinge side)			
	• Opening angle 173°			RAL to choose 797
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)		Standard	
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock		Anti-panic function double-leaf	729
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock		Anti-panic function double-leaf	560
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock		Anti-panic function double-leaf	565
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable		EV1	Standard
	⚠ Please take into consideration 2 hinges for the leaf!		RAL to choose	Per hinge 62
			Stainless steel look	Per hinge 86
	• Hörmann guide roller, 2-way adjustable		Stainless steel	Per hinge 175
	⚠ Please take into consideration 2 hinges for the leaf!		RAL to choose	Per hinge 207

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

	<b>Retractable bottom seal</b>			
	• For fitting on a smooth, level floor			
	⚠ Limited leak tightness of doors in outside application		Double-leaf	350
	<b>Delayed retractable bottom seal</b>			
	• Suitable with different pressure ratios (loading houses)			
	• For fitting on a smooth, level floor		Double-leaf	650
	⚠ Limited leak tightness of doors in outside application			
	<b>Floor covering transition profile</b>			
	Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor		Double-leaf	72

### Accessories

Glazings and infills	See from page 174
Horizontal rails / vertical rails	See page 195
Fittings	See from page 182
Lever handle sets, profile cylinders, locks and electric extras	
Door closers, hold-open devices and operators	See from page 198
Security features RC 2 / RC 3 acc. to DIN EN 1627	See from page 180
Steel frames for tubular frame parts	See from page 90

# HE 321 – aluminium hollow profiled section door

Fire-rated doors T30 / EI<sub>2</sub>30, double-leaf



Approved as	T30 internal door	EI <sub>2</sub> 30 external door	T30 internal door	T30 internal door
	<b>HE 321</b>	<b>HE 321</b>	<b>HE 321</b> With frame without face	<b>HE 321</b> With steel frame
Depth [mm]	80	80	80	80
RAM width (min – max) [mm]	1355 × 3000	1400 × 3000	1538 × 2810	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 × 4000	1740 × 3000	1710 × 2500	BRM 1705 × 2965
RAM including transom light max. [mm]			2810 × 3000	BRM 2930 × 3500
Optional additional functions				

## Detailed product description

Technical description, fitting instructions, fast-track programme

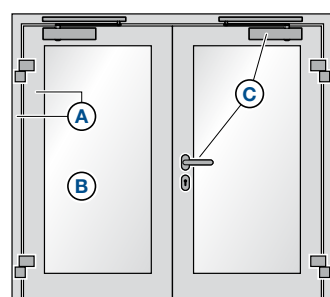
HE 321

HE 321 with frame without face

HE 321 in external applications

HE 321 with steel frame

See page 24



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  HE 321 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1895	×	2010	<b>5045</b>	2,55	260	340	509
		2135	<b>5094</b>	2,73	268	346	518
		2290	<b>5153</b>	2,96	272	353	530
		2385	<b>5191</b>	3,10	273	355	533
		2510	<b>5237</b>	3,28	277	361	542
		2600	<b>5272</b>	3,41	281	367	551
		2710	<b>5314</b>	3,57	287	372	560
		2885	<b>5381</b>	3,83	292	379	568
2020	×	3000	<b>5425</b>	4,00	296	384	578
		2010	<b>5094</b>	2,77	268	346	518
		2135	<b>5141</b>	2,96	271	350	527
		2290	<b>5191</b>	3,21	275	358	536
		2385	<b>5237</b>	3,36	277	361	542
		2510	<b>5286</b>	3,56	284	369	552
		2600	<b>5321</b>	3,70	287	372	560
		2710	<b>5364</b>	3,88	292	379	568
2145	×	2885	<b>5430</b>	4,16	298	388	583
		3000	<b>5474</b>	4,34	305	398	597
		2010	<b>5141</b>	2,98	271	350	527
		2135	<b>5191</b>	3,20	275	358	536
		2290	<b>5249</b>	3,46	280	366	549
		2385	<b>5286</b>	3,63	286	371	556
		2510	<b>5333</b>	3,84	291	378	567
		2600	<b>5368</b>	3,99	294	382	573
		2710	<b>5409</b>	4,18	298	388	583
		2885	<b>5477</b>	4,48	306	399	598
		3000	<b>5521</b>	4,68	312	405	606

► For additional size ranges, see next page

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**33**

### Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

**2486**

### HE 321 in external applications



Threshold with thermal break for water tightness under heavy rain (*standard* for outside application)

**230**

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

**449**

F30 insulated glazing (U-value: 1.1)

Per m<sup>2</sup>

**1536**



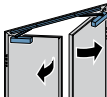









# Glazings, door fittings, additional functions

## HE 321 – aluminium hollow profiled section door



B

Glazing (standard delivery glass / panel separate)			Surcharge €
Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications	No.	max. glass dimensions	Per m² €
Standard F30 glazing	893	1400 × 2700 mm	836
F30 glazing with matt PVB plastic film	687	1400 × 2500 mm	1156
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)	502	1200 × 2500 mm	771
For external applications	No.	max. glass dimensions	Per m² €
F30 insulated glazing (as standard for external applications, U-value: 1.1)	407	1250 × 3000 mm	1536
F30 insulated glazing with matt PVB plastic film	555	1250 × 3000 mm	2111

C Door fitting / additional function		Surcharge €	
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	Standard	Aluminium <b>98</b>
			Stainless steel <b>137</b>
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC		Aluminium <b>147</b>
			Stainless steel <b>216</b>
	• <b>TS 5000 ISM</b> with slide rail • Fitting on opening side (hinge side) • Opening angle 173°	Standard	Silver-coloured <b>646</b>
			RAL to choose <b>797</b>
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)		Standard
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>729</b>
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>560</b>
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>565</b>
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1	Standard
		RAL to choose	Per hinge <b>62</b>
		Stainless steel look	Per hinge <b>86</b>
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel	Per hinge <b>175</b>
		RAL to choose	Per hinge <b>207</b>
Smoke-tight acc. to DIN 18095 / DIN EN 1634-3			
	 <b>Retractable bottom seal</b> • For fitting on a smooth, level floor ⚠ Limited leak tightness of doors in outside application	Double-leaf	<b>350</b>
	 <b>Delayed retractable bottom seal</b> • Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor ⚠ Limited leak tightness of doors in outside application	Double-leaf	<b>650</b>
	<b>Floor covering transition profile</b> Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor	Double-leaf	<b>72</b>

### Accessories

















Glazings and infills	See from page 174
Horizontal rails / vertical rails	See page 195
Fittings	See from page 182
Lever handle sets, profile cylinders, locks and electric extras	
Door closers, hold-open devices and operators	See from page 198
Security features RC 2 / RC 3 acc. to DIN EN 1627	See from page 180
Steel frames for tubular frame parts	See from page 90



# HE 321 – aluminium hollow profiled section door

T30

Fire-rated doors T30 / EI<sub>2</sub>30, double-leaf

Approved as	T30 internal door	EI <sub>2</sub> 30 external door	T30 internal door	T30 internal door
	<b>HE 321</b>	<b>HE 321</b>	<b>HE 321</b> With frame without face	<b>HE 321</b> With steel frame
Depth [mm]	80	80	80	80
RAM width (min – max) [mm]	1355 × 3000	1400 × 3000	1538 × 2810	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 × 4000	1740 × 3000	1710 × 2500	BRM 1705 × 2965
RAM including transom light max. [mm]			2810 × 3000	BRM 2930 × 3500
Optional additional functions	   	   	   	   

## Detailed product description

Technical description, fitting instructions, fast-track programme

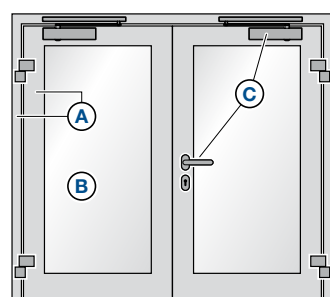
HE 321

HE 321 with frame without face

HE 321 in external applications

HE 321 with steel frame

See page 24



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  HE 321 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2270	×	2010	<b>5191</b>	3,20	274	356	534
		2135	<b>5237</b>	3,43	279	364	548
		2290	<b>5298</b>	3,72	287	372	560
		2385	<b>5333</b>	3,89	291	378	567
		2510	<b>5381</b>	4,12	296	384	578
		2600	<b>5416</b>	4,29	299	389	585
		2710	<b>5457</b>	4,49	306	399	598
		2885	<b>5526</b>	4,81	312	405	606
		3000	<b>5569</b>	5,02	316	410	617
2395	×	2010	<b>5237</b>	3,42	279	364	548
		2135	<b>5286</b>	3,66	286	371	556
		2290	<b>5345</b>	3,97	292	379	568
		2385	<b>5381</b>	4,15	296	384	578
		2510	<b>5430</b>	4,40	304	396	593
		2600	<b>5463</b>	4,58	306	399	598
		2710	<b>5506</b>	4,79	312	405	606
		2885	<b>5572</b>	5,14	318	413	620
		3000	<b>5618</b>	5,36	324	422	632
2500	×	2010	<b>5280</b>	3,60	284	369	552
		2135	<b>5325</b>	3,86	290	377	564
		2290	<b>5385</b>	4,18	296	384	578
		2385	<b>5421</b>	4,38	303	394	590
		2510	<b>5470</b>	4,63	307	400	600
		2600	<b>5503</b>	4,82	312	405	606
		2710	<b>5546</b>	5,05	316	410	617
		2885	<b>5613</b>	5,41	325	423	634
		3000	<b>5657</b>	5,65	328	427	641

► For additional size ranges, see next page

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**33**

### Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

**2486**

### HE 321 in external applications



Threshold with thermal break for water tightness under heavy rain (*standard* for outside application)

**230**

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

**449**

F30 insulated glazing (U-value: 1.1)

Per m<sup>2</sup>

**1536**



# Glazings, door fittings, additional functions

## HE 321 – aluminium hollow profiled section door



B	Glazing (standard delivery glass / panel separate)			Surcharge €
	Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications		No.	max. glass dimensions	Per m² €
Standard F30 glazing		893	1400 × 2700 mm	836
F30 glazing with matt PVB plastic film		687	1400 × 2500 mm	1156
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)		502	1200 × 2500 mm	771
For external applications		No.	max. glass dimensions	Per m² €
F30 insulated glazing (as standard for external applications, U-value: 1.1)		407	1250 × 3000 mm	1536
F30 insulated glazing with matt PVB plastic film		555	1250 × 3000 mm	2111

Door fitting / additional function		Surcharge €	
	<ul style="list-style-type: none"><li>Lever handle set D116, oval rose escutcheon PC</li></ul>	Standard	Aluminium 98
			Stainless steel 137
	<ul style="list-style-type: none"><li>Lever / knob handle set D116 with knob K117, oval rose escutcheon PC</li></ul>		Aluminium 147
			Stainless steel 216
	<ul style="list-style-type: none"><li>TS 5000 ISM with slide rail</li><li>Fitting on opening side (hinge side)</li><li>Opening angle 173°</li></ul>	Standard	Silver-coloured 646
			RAL to choose 797
	<ul style="list-style-type: none"><li>Mortice lock BKS 1828 including espagnolette lock (fixed leaf)</li></ul>		Standard
	<ul style="list-style-type: none"><li>Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	729
	<ul style="list-style-type: none"><li>Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	560
	<ul style="list-style-type: none"><li>Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	565
	<ul style="list-style-type: none"><li>Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable</li></ul> <p>⚠ Please take into consideration 2 hinges for the leaf!</p>	EV1	Standard
		RAL to choose	Per hinge 62
		Stainless steel look	Per hinge 86
	<ul style="list-style-type: none"><li>Hörmann guide roller, 2-way adjustable</li></ul> <p>⚠ Please take into consideration 2 hinges for the leaf!</p>	Stainless steel	Per hinge 175
		RAL to choose	Per hinge 207
Smoke-tight acc. to DIN 18095 / DIN EN 1634-3			
	Retractable bottom seal		
	<ul style="list-style-type: none"><li>For fitting on a smooth, level floor</li></ul> <p>⚠ Limited leak tightness of doors in outside application</p>	Double-leaf	350
	Delayed retractable bottom seal		
	<ul style="list-style-type: none"><li>Suitable with different pressure ratios (loading houses)</li><li>For fitting on a smooth, level floor</li></ul> <p>⚠ Limited leak tightness of doors in outside application</p>	Double-leaf	650
	Floor covering transition profile		
	Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor	Double-leaf	72

















### Accessories

<b>Glazings and infills</b>	See from page 174
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b>	See from page 182
Lever handle sets, profile cylinders, locks and electric extras	
<b>Door closers, hold-open devices and operators</b>	See from page 198
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 90

# HE 321 – aluminium hollow profiled section door

T30

Fire-rated doors T30 / EI<sub>2</sub>30, double-leaf

Approved as	T30 internal door	EI <sub>2</sub> 30 external door	T30 internal door	T30 internal door
	<b>HE 321</b>	<b>HE 321</b>	<b>HE 321</b> With frame without face	<b>HE 321</b> With steel frame
Depth [mm]	80	80	80	80
RAM width (min – max) [mm]	1355 × 3000	1400 × 3000	1538 × 2810	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 × 4000	1740 × 3000	1710 × 2500	BRM 1705 × 2965
RAM including transom light max. [mm]			2810 × 3000	BRM 2930 × 3500
Optional additional functions	   	   	   	   

## Detailed product description

Technical description, fitting instructions, fast-track programme

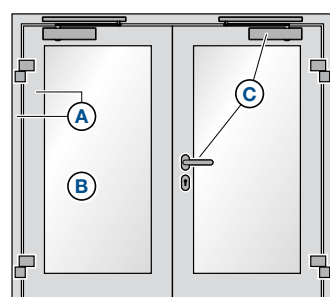
HE 321

HE 321 with frame without face

HE 321 in external applications

HE 321 with steel frame

See page 24



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



## Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  HE 321 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2615	×	2010	<b>5322</b>	3,80	290	377	564
		2135	<b>5370</b>	4,07	295	383	574
		2290	<b>5430</b>	4,41	304	396	593
		2385	<b>5464</b>	4,62	306	399	598
		2510	<b>5514</b>	4,89	313	406	607
		2600	<b>5548</b>	5,09	316	410	617
		2710	<b>5590</b>	5,33	324	422	632
		2885	<b>5657</b>	5,71	329	430	645
2730	×	3000	<b>5702</b>	5,96	334	435	654
		2010	<b>5367</b>	4,00	292	379	568
		2135	<b>5415</b>	4,29	299	389	585
		2290	<b>5474</b>	4,64	307	400	600
		2385	<b>5510</b>	4,86	312	405	606
		2510	<b>5558</b>	5,15	316	410	617
		2600	<b>5592</b>	5,36	321	415	623
		2710	<b>5634</b>	5,61	328	427	641
2845	×	2885	<b>5702</b>	6,01	334	435	654
		3000	<b>5745</b>	6,28	341	442	664
		2010	<b>5409</b>	4,20	298	388	583
		2135	<b>5457</b>	4,50	306	399	598
		2290	<b>5517</b>	4,88	313	406	607
		2385	<b>5553</b>	5,11	316	410	617
		2510	<b>5602</b>	5,41	324	422	632
		2600	<b>5637</b>	5,62	328	427	641
		2710	<b>5679</b>	5,89	332	432	648
		2885	<b>5745</b>	6,31	341	442	664
		3000	<b>5791</b>	6,59	347	452	679

► For additional size ranges, see next page

## Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**33**

## Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

**2486**

## HE 321 in external applications



Threshold with thermal break for water tightness under heavy rain (*standard* for outside application)

**230**

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

**449**

F30 insulated glazing (U-value: 1.1)

Per m<sup>2</sup>

**1536**

# Glazings, door fittings, additional functions

## HE 321 – aluminium hollow profiled section door



B

Glazing (standard delivery glass / panel separate)			Surcharge €
Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications	No.	max. glass dimensions	Per m² €
Standard F30 glazing	893	1400 × 2700 mm	836
F30 glazing with matt PVB plastic film	687	1400 × 2500 mm	1156
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)	502	1200 × 2500 mm	771
For external applications	No.	max. glass dimensions	Per m² €
F30 insulated glazing (as standard for external applications, U-value: 1.1)	407	1250 × 3000 mm	1536
F30 insulated glazing with matt PVB plastic film	555	1250 × 3000 mm	2111

C	Door fitting / additional function		Surcharge €	
			Standard	Aluminium
	• <b>Lever handle set D116</b> , oval rose escutcheon PC			<b>98</b>
				Stainless steel <b>137</b>
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC			Aluminium <b>147</b>
				Stainless steel <b>216</b>
	• <b>TS 5000 ISM</b> with slide rail		Standard	Silver-coloured <b>646</b>
	• Fitting on opening side (hinge side)			
	• Opening angle 173°			RAL to choose <b>797</b>
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)		Standard	
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock		Anti-panic function double-leaf	<b>729</b>
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock		Anti-panic function double-leaf	<b>560</b>
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock		Anti-panic function double-leaf	<b>565</b>
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable		EV1	Standard
	⚠ Please take into consideration 2 hinges for the leaf!		RAL to choose	Per hinge <b>62</b>
			Stainless steel look	Per hinge <b>86</b>
	• Hörmann guide roller, 2-way adjustable		Stainless steel	Per hinge <b>175</b>
	⚠ Please take into consideration 2 hinges for the leaf!		RAL to choose	Per hinge <b>207</b>

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

	<b>Retractable bottom seal</b>			
	• For fitting on a smooth, level floor			
	⚠ Limited leak tightness of doors in outside application		Double-leaf	<b>350</b>
	<b>Delayed retractable bottom seal</b>			
	• Suitable with different pressure ratios (loading houses)			
	• For fitting on a smooth, level floor		Double-leaf	<b>650</b>
	<b>Floor covering transition profile</b>			
	Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor			
			Double-leaf	<b>72</b>

















### Accessories

<b>Glazings and infills</b>	See from page 174
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b>	See from page 182
Lever handle sets, profile cylinders, locks and electric extras	
<b>Door closers, hold-open devices and operators</b>	See from page 198
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 90

# HE 321 – aluminium hollow profiled section door

Fire-rated doors T30 / EI<sub>2</sub>30, double-leaf

T30

Approved as	T30 internal door	EI <sub>2</sub> 30 external door	T30 internal door	T30 internal door
	<b>HE 321</b>	<b>HE 321</b>	<b>HE 321</b> With frame without face	<b>HE 321</b> With steel frame
Depth [mm]	80	80	80	80
RAM width (min – max) [mm]	1355 × 3000	1400 × 3000	1538 × 2810	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 × 4000	1740 × 3000	1710 × 2500	BRM 1705 × 2965
RAM including transom light max. [mm]			2810 × 3000	BRM 2930 × 3500
Optional additional functions	   	   	   	   

## Detailed product description

Technical description, fitting instructions, fast-track programme

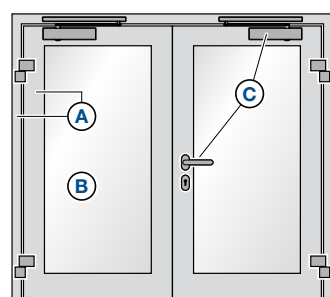
HE 321

HE 321 with frame without face

HE 321 in external applications

HE 321 with steel frame

See page 24



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function



### Frame / leaf



Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  HE 321 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
3000	×	2010	<b>5470</b>	4,47	306	399	598
		2135	<b>5517</b>	4,79	312	405	606
		2290	<b>5575</b>	5,19	318	413	620
		2385	<b>5613</b>	5,43	325	423	634
		2510	<b>5662</b>	5,75	330	431	646
		2600	<b>5696</b>	5,99	333	433	650
		2710	<b>5738</b>	6,27	340	441	660
		2885	<b>5806</b>	6,72	349	455	682
		3000	<b>5849</b>	7,01	356	463	694

### Already included in the price:

- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54

Other door versions		Surcharge €
	Frame view 110 mm instead of 70 mm (standard)	Per m <b>33</b>
<b>Aluminium frame without face</b>		
Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96		<b>2486</b>
<b>HE 321 in external applications</b>		
	Threshold with thermal break for water tightness under heavy rain ( <i>standard</i> for outside application)	<b>230</b>
	Top locking (only for doors from RAM height > 2150 mm, optional triple lock)	<b>449</b>
	F30 insulated glazing (U-value: 1.1)	Per m <sup>2</sup> <b>1536</b>

# Glazings, door fittings, additional functions

## HE 321 – aluminium hollow profiled section door



B

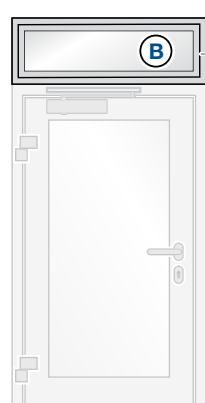
Glazing (standard delivery glass / panel separate)			Surcharge €
Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications	No.	max. glass dimensions	Per m² €
Standard F30 glazing	893	1400 × 2700 mm	836
F30 glazing with matt PVB plastic film	687	1400 × 2500 mm	1156
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)	502	1200 × 2500 mm	771
For external applications	No.	max. glass dimensions	Per m² €
F30 insulated glazing (as standard for external applications, U-value: 1.1)	407	1250 × 3000 mm	1536
F30 insulated glazing with matt PVB plastic film	555	1250 × 3000 mm	2111

C		Door fitting / additional function		Surcharge €	
	<ul style="list-style-type: none"><li>Lever handle set D116, oval rose escutcheon PC</li></ul>	Standard	Aluminium	98	
			Stainless steel	137	
	<ul style="list-style-type: none"><li>Lever / knob handle set D116 with knob K117, oval rose escutcheon PC</li></ul>		Aluminium	147	
			Stainless steel	216	
	<ul style="list-style-type: none"><li>TS 5000 ISM with slide rail</li><li>Fitting on opening side (hinge side)</li><li>Opening angle 173°</li></ul>	Standard	Silver-coloured	646	
			RAL to choose	797	
	<ul style="list-style-type: none"><li>Mortice lock BKS 1828 including espagnolette lock (fixed leaf)</li></ul>	Standard			
	<ul style="list-style-type: none"><li>Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	729		
	<ul style="list-style-type: none"><li>Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	560		
	<ul style="list-style-type: none"><li>Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	565		
	<ul style="list-style-type: none"><li>Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable</li></ul> <p>⚠ Please take into consideration 2 hinges for the leaf!</p>	EV1	Standard		
		RAL to choose	Per hinge	62	
		Stainless steel look	Per hinge	86	
	<ul style="list-style-type: none"><li>Hörmann guide roller, 2-way adjustable</li></ul> <p>⚠ Please take into consideration 2 hinges for the leaf!</p>	Stainless steel	Per hinge	175	
		RAL to choose	Per hinge	207	
Smoke-tight acc. to DIN 18095 / DIN EN 1634-3					
	Retractable bottom seal				
	<ul style="list-style-type: none"><li>For fitting on a smooth, level floor</li></ul>		Double-leaf	350	
	<p>⚠ Limited leak tightness of doors in outside application</p>				
	Delayed retractable bottom seal				
	<ul style="list-style-type: none"><li>Suitable with different pressure ratios (loading houses)</li><li>For fitting on a smooth, level floor</li></ul>		Double-leaf	650	
	<p>⚠ Limited leak tightness of doors in outside application</p>				
	Floor covering transition profile				
	Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor		Double-leaf	72	

### Accessories

<b>Glazings and infills</b>	See from page 174
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b>	See from page 182
Lever handle sets, profile cylinders, locks and electric extras	
<b>Door closers, hold-open devices and operators</b>	See from page 198
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 90





Transom light



Side element



Fixed glazing

A

## Fixed glazing HE 331

Ordering sizes (RAM) up to width × up to height			Frame price  HE 331 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>3)</sup>	Surface coating <sup>4)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1020	×	510	1159	0,50	59	78	115
		635	1186	0,50	66	86	130
		760	1217	0,60	71	91	139
		885	1244	0,72	75	98	146
		1040	1280	0,86	79	103	153
		1135	1301	0,95	80	104	156
		1260	1330	1,06	81	106	159
		1395	1361	1,19	85	109	165
1145	×	1500	1385	1,28	86	112	168
		510	1186	0,50	63	83	124
		635	1217	0,56	71	91	139
		760	1244	0,69	72	92	141
		885	1272	0,82	76	99	148
		1040	1308	0,98	81	106	159
		1135	1330	1,08	83	107	161
		1260	1357	1,21	85	109	165
1270	×	1395	1389	1,35	89	116	175
		1500	1413	1,46	91	120	180
		510	1217	0,50	67	87	131
		635	1244	0,62	72	92	141
		760	1272	0,77	76	99	148
		885	1301	0,91	80	104	156
		1040	1336	1,10	84	108	164
		1135	1357	1,21	85	109	165
		1260	1387	1,35	89	116	175
		1395	1416	1,51	91	120	180
		1500	1441	1,63	98	126	189

► For additional size ranges, see next page

## Door set price =

- (A) Frame  
 + (B) Glazing

Other door versions Surcharge €


Frame view 110 mm instead of 70 mm (standard)

Per m **33**

Vertical / horizontal profile constructions opening outwards

✓ Doors with side element and / or transom light (glazing beads on opposite hinge side)

**317**

## Frame without face

Frame without face for version with transom light

**304**

## HE 331 in external applications



F30 insulated glazing (U-value: 1.1)

Per m<sup>2</sup> **1536**

B

## Glazing (standard delivery glass separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Each **198**

For interior applications	No.	max. glass dimensions	Per m <sup>2</sup> €
<b>Standard F30 glazing</b>	<b>893</b>	1400 × 2700 mm	<b>836</b>
F30 glazing with matt PVB plastic film	<b>687</b>	1400 × 2500 mm	<b>1156</b>
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)	<b>502</b>	1200 × 2500 mm	<b>771</b>
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)	<b>506</b>	1400 × 3000 mm	<b>1120</b>
For external applications	No.	max. glass dimensions	Per m <sup>2</sup> €
<b>F30 insulated glazing (as standard for external applications, U-value: 1.1)</b>	<b>407</b>	1250 × 3000 mm	<b>1536</b>
F30 insulated glazing with matt PVB plastic film	<b>555</b>	1250 × 3000 mm	<b>2111</b>








## Accessories

Glazings and infills	See from page 174
Horizontal rails / vertical rails	See page 195
Security features RC 2 / RC 3 acc. to DIN EN 1627	See page 180
Steel frame for version with transom light	See from page 90

# HE 331 – aluminium fixed glazing

F30

Fire-rated glazings F30 / EI<sub>2</sub>30 as a transom light, side element or fixed glazing

Approved as	F30 internal fixed glazing	EI <sub>2</sub> 30 external fixed glazing	F30 internal fixed glazing
	<b>HE 331</b> Inside application	<b>HE 331</b> Outside application <sup>1)</sup>	<b>HE 331</b> With frame without face <sup>2)</sup>
Depth [mm]	80	80	80
RAM width (max) [mm]	Unlimited	1400 (side element), 3000 (transom light)	Single-leaf 1415, double-leaf 2810
RAM height (max) [mm]	4960 without door, 4500 with door	3100 (side element), 1580 (transom light)	1000
Optional additional functions	 RC 2  RC 3  TRAV	 RC 2  RC 3	 RC 2  RC 3

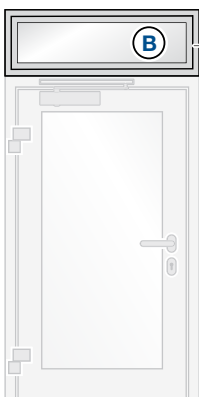
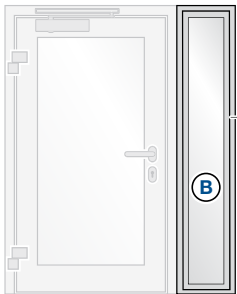
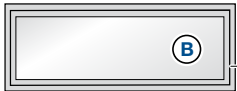
## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

HE 331

HE 331 with frame without face

See page 33

		Fixed glazing HE 331		Surface coating <sup>4)</sup> Surcharge		
Ordering sizes (RAM) up to width × up to height		Frame price <b>HE 331</b> RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>3)</sup>	Preferred colour	RAL to choose	Special colour
	1370 ×	510	0,52	71	91	139
		635	0,68	75	98	146
		760	0,83	79	103	153
		885	0,99	81	106	159
		1040	1,19	85	109	165
		1135	1,31	87	113	170
		1260	1,47	91	120	180
		1395	1,64	97	125	187
		1500	1,77	101	130	194
	1500 ×	510	0,57	72	92	141
		635	0,75	78	102	152
		760	0,92	80	104	156
		885	1,09	84	108	164
		1040	1,31	87	113	170
		1135	1,44	91	120	180
		1260	1,62	97	125	187
		1395	1,81	101	130	194
		1500	1,95	103	133	200
	1645 ×	510	0,63	76	99	148
		635	0,82	79	103	153
		760	1,02	84	108	164
		885	1,21	86	112	168
		1040	1,45	91	120	180
		1135	1,59	97	125	187
		1260	1,79	101	130	194
		1395	2,00	104	134	201
		1500	2,16	106	139	208
	1770 ×	510	0,68	79	103	153
		635	0,89	83	107	161
		760	1,10	86	112	168
		885	1,31	90	118	178
		1040	1,56	97	125	187
		1135	1,72	101	130	194
		1260	1,93	103	133	200
		1395	2,16	106	139	208
		1500	2,33	109	142	213

Door set price =

Ⓐ Frame

+ Ⓑ Glazing

1) Exclusive glazings (without door) are available up to a max. RAM of 1500 × 2500 mm (single element) or 4500 × 2500 mm (vertical/horizontal profile or coupling construction)

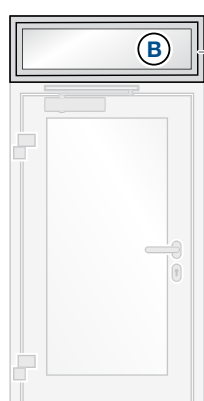
2) Only possible as transom light

3) Minimum calculation surface 0.5 m<sup>2</sup>

4) For an overview of available surface finishes, see page 54

► For additional size ranges, see next page





Transom light



Side element



Fixed glazing

**A**

### Fixed glazing HE 331

Ordering sizes (RAM) up to width × up to height			Frame price  HE 331 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>3)</sup>	Surface coating <sup>4)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1895	×	510	<b>1357</b>	0,73	80	104	156
		635	<b>1387</b>	0,96	84	108	164
		760	<b>1415</b>	1,18	89	116	175
		885	<b>1443</b>	1,40	91	120	180
		1040	<b>1478</b>	1,68	99	129	193
		1135	<b>1500</b>	1,85	103	133	200
		1260	<b>1528</b>	2,08	105	135	205
		1395	<b>1560</b>	2,32	109	142	213
2020	×	1500	<b>1583</b>	2,51	112	146	219
		510	<b>1387</b>	0,78	83	107	161
		635	<b>1415</b>	1,02	86	112	168
		760	<b>1443</b>	1,26	89	116	175
		885	<b>1472</b>	1,50	97	125	187
		1040	<b>1507</b>	1,80	102	131	196
		1135	<b>1528</b>	1,98	105	135	205
		1260	<b>1558</b>	2,22	108	141	212
2145	×	1395	<b>1587</b>	2,48	115	151	226
		1500	<b>1612</b>	2,68	120	156	235
		510	<b>1415</b>	0,83	84	108	164
		635	<b>1443</b>	1,09	87	113	170
		760	<b>1472</b>	1,34	91	120	180
		885	<b>1500</b>	1,60	99	129	193
		1040	<b>1536</b>	1,92	104	134	201
		1135	<b>1558</b>	2,11	107	140	209
		1260	<b>1585</b>	2,37	110	144	217
		1395	<b>1617</b>	2,64	120	156	235
		1500	<b>1641</b>	2,86	123	158	238

► For additional size ranges, see next page

### Door set price =

- (A) Frame  
 + (B) Glazing

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m **33**

Vertical / horizontal profile constructions opening outwards

✓ Doors with side element and / or transom light (glazing beads on opposite hinge side)

**317**

### Frame without face

Frame without face for version with transom light

**304**

### HE 331 in external applications



F30 insulated glazing (U-value: 1.1)

Per m<sup>2</sup> **1536**

**B**

### Glazing (standard delivery glass separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Each **198**

### For interior applications

	No.	max. glass dimensions	Per m <sup>2</sup> €
<b>Standard F30 glazing</b>	<b>893</b>	1400 × 2700 mm	<b>836</b>
F30 glazing with matt PVB plastic film	<b>687</b>	1400 × 2500 mm	<b>1156</b>
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)	<b>502</b>	1200 × 2500 mm	<b>771</b>
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)	<b>506</b>	1400 × 3000 mm	<b>1120</b>

### For external applications

	No.	max. glass dimensions	Per m <sup>2</sup> €
<b>F30 insulated glazing (as standard for external applications, U-value: 1.1)</b>	<b>407</b>	1250 × 3000 mm	<b>1536</b>
F30 insulated glazing with matt PVB plastic film	<b>555</b>	1250 × 3000 mm	<b>2111</b>

### Accessories

<b>Glazings and infills</b>	See from page 174
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See page 180
<b>Steel frame for version with transom light</b>	See from page 90

# HE 331 – aluminium fixed glazing

F30

Fire-rated glazings F30 / EI<sub>2</sub>30 as a transom light, side element or fixed glazing

Approved as	F30 internal fixed glazing	EI <sub>2</sub> 30 external fixed glazing	F30 internal fixed glazing
	<b>HE 331</b> Inside application	<b>HE 331</b> Outside application <sup>1)</sup>	<b>HE 331</b> With frame without face <sup>2)</sup>
Depth [mm]	80	80	80
RAM width (max) [mm]	Unlimited	1400 (side element), 3000 (transom light)	Single-leaf 1415, double-leaf 2810
RAM height (max) [mm]	4960 without door, 4500 with door	3100 (side element), 1580 (transom light)	1000
Optional additional functions	RC 2  RC 3  TRAV	RC 2  RC 3	RC 2  RC 3

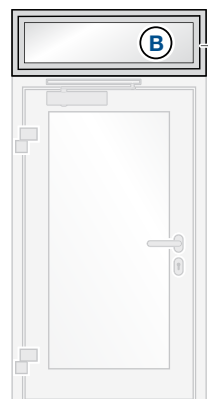
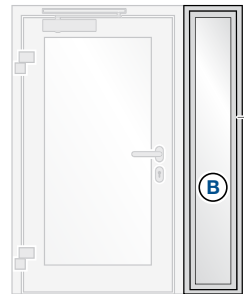

## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

HE 331

HE 331 with frame without face

See page 33

		<b>Fixed glazing HE 331</b>		Surface coating <sup>4)</sup> Surcharge		
		Ordering sizes (RAM) up to width × up to height	Frame price <b>HE 331</b> RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>3)</sup>	Preferred colour	RAL to choose
					Special colour	
 Transom light	A	2270 × 510	<b>1443</b>	0,88	86	112
		635	<b>1472</b>	1,16	89	116
		760	<b>1500</b>	1,43	97	125
		885	<b>1528</b>	1,70	102	131
		1040	<b>1563</b>	2,03	106	139
		1135	<b>1585</b>	2,24	109	142
		1260	<b>1614</b>	2,51	116	152
		1395	<b>1644</b>	2,80	123	158
		1500	<b>1669</b>	3,03	126	164
					168	244
 Side element	A	2395 × 510	<b>1472</b>	0,94	87	113
		635	<b>1500</b>	1,22	94	124
		760	<b>1528</b>	1,51	99	129
		885	<b>1558</b>	1,80	104	134
		1040	<b>1592</b>	2,15	108	141
		1135	<b>1614</b>	2,37	112	146
		1260	<b>1643</b>	2,66	121	157
		1395	<b>1673</b>	2,96	126	164
		1500	<b>1696</b>	3,21	130	168
					253	244
 Fixed glazing	A	2500 × 510	<b>1497</b>	0,98	89	116
		635	<b>1524</b>	1,28	97	125
		760	<b>1553</b>	1,58	102	131
		885	<b>1582</b>	1,88	106	139
		1040	<b>1617</b>	2,25	110	144
		1135	<b>1639</b>	2,48	116	152
		1260	<b>1667</b>	2,78	124	161
		1395	<b>1696</b>	3,10	129	167
		1500	<b>1721</b>	3,35	132	171
					258	251
	A	2615 × 510	<b>1522</b>	1,03	90	118
		635	<b>1550</b>	1,34	99	129
		760	<b>1580</b>	1,65	103	133
		885	<b>1607</b>	1,97	107	140
		1040	<b>1643</b>	2,36	116	152
		1135	<b>1666</b>	2,60	121	157
		1260	<b>1693</b>	2,91	126	164
		1395	<b>1725</b>	3,25	131	170
		1500	<b>1749</b>	3,51	137	178
					269	269

Door set price =

A Frame

+ B Glazing

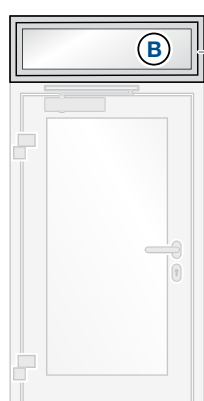
1) Exclusive glazings (without door) are available up to a max. RAM of 1500 × 2500 mm (single element) or 4500 × 2500 mm (vertical/horizontal profile or coupling construction)

2) Only possible as transom light

3) Minimum calculation surface 0.5 m<sup>2</sup>

4) For an overview of available surface finishes, see page 54

► For additional size ranges, see next page



Transom light



Side element



Fixed glazing

**A**

### Fixed glazing HE 331

Ordering sizes (RAM) up to width × up to height	Frame price  HE 331 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>3)</sup>	Surface coating <sup>4)</sup> Surcharge		
			Preferred colour	RAL to choose	Special colour
2730 × 510	<b>1548</b>	1,07	94	124	186
	<b>1577</b>	1,40	101	130	194
	<b>1605</b>	1,73	105	135	205
	<b>1634</b>	2,06	109	142	213
	<b>1669</b>	2,47	121	157	236
	<b>1691</b>	2,71	124	161	241
	<b>1718</b>	3,04	129	167	251
	<b>1750</b>	3,40	135	177	266
2845 × 510	<b>1774</b>	3,67	140	183	273
	<b>1575</b>	1,12	98	126	189
	<b>1604</b>	1,46	103	133	200
	<b>1632</b>	1,80	106	139	208
	<b>1660</b>	2,15	112	146	219
	<b>1695</b>	2,57	123	158	238
	<b>1717</b>	2,83	127	166	250
	<b>1746</b>	3,18	131	170	256
3000 × 510	<b>1776</b>	3,55	139	180	270
	<b>1801</b>	3,83	143	187	279
	<b>1610</b>	1,18	99	129	193
	<b>1639</b>	1,54	105	135	205
	<b>1667</b>	1,91	108	141	212
	<b>1695</b>	2,27	116	152	227
	<b>1730</b>	2,72	126	164	244
	<b>1752</b>	2,99	130	168	253
3000 × 1260	<b>1780</b>	3,36	137	178	269
	<b>1812</b>	3,75	142	185	276
	<b>1836</b>	4,05	148	193	291

### Door set price =

- A** Frame  
 + **B** Glazing

Larger RAM in width and height on request.

### Other door versions Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m **33**

Vertical / horizontal profile constructions opening outwards

✓ Doors with side element and / or transom light (glazing beads on opposite hinge side)

**317**

### Frame without face

Frame without face for version with transom light

**304**

### HE 331 in external applications



F30 insulated glazing (U-value: 1.1)

Per m<sup>2</sup> **1536**

**B**

### Glazing (standard delivery glass separate)

**Surcharge €**

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Each **198**

### For interior applications

	No.	max. glass dimensions	Per m <sup>2</sup> €
<b>Standard F30 glazing</b>	<b>892/893</b>	1400 × 2700 mm	<b>836</b>
F30 glazing with matt PVB plastic film	<b>687</b>	1400 × 2500 mm	<b>1156</b>
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)	<b>502</b>	1200 × 2500 mm	<b>771</b>
F30 fire protection panel (2 × aluminium sheet, interior fire-proof core)	<b>506</b>	1400 × 3000 mm	<b>1120</b>

### For external applications

	No.	max. glass dimensions	Per m <sup>2</sup> €
<b>F30 insulated glazing (as standard for external applications, U-value: 1.1)</b>	<b>407</b>	1250 × 3000 mm	<b>1536</b>
F30 insulated glazing with matt PVB plastic film	<b>555</b>	1250 × 3000 mm	<b>2111</b>

### Accessories

<b>Glazings and infills</b>	See from page 174
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See page 180
<b>Steel frame for version with transom light</b>	See from page 90

# Steel corner and profile frames

T30

For T30 aluminium hollow profiled section doors with or without transom light, single-leaf and double-leaf

## Material

- Sheet metal, hot galvanized
- Corner frame 2.0 mm thick for brickwork
- Profile frame 2.0 mm thick for brickwork and partition walls
- Primed based on RAL 7035 for subsequent coating on-site, optionally in RAL to choose
- Version with glazing beads on hinge side or **//NEW** with glazing beads on opposite hinge side

## Size range (nominal sizes)

HE 311:	Min. 535 × 1705 mm	Max. 1430 × 2965 mm
HE 321:	Min. 1285 × 1705 mm	Max. 2930 × 2965 mm
Doors with transom light/top part		Max. 3500 mm height

Corner frame for brickwork



Corner frame  
Prepared for screw fixing  
(unplastered brickwork)

Double-shell profile frame for brickwork and partition walls



Double-shell profile frame  
Prepared for screw fixing

## Frame types

- 1-part welded in the mitred area, polished
- Mortar-free fitting

Standard

Basic prices €								
BR height up to		2278	2500		2750		3000	
BR width up to		Wall width		With transom light	With transom light		With transom light	
1000 mm	Corner frame							
		145						
	Profile frame	205						
		270						
1250 mm	Corner frame							
		145						
	Profile frame	205						
		270						
1500 mm	Corner frame							
		145						
	Profile frame	205						
		270						
1750 mm	Corner frame							
		145						
	Profile frame	205						
		270						
2000 mm	Corner frame							
		145						
	Profile frame	205						
		270						
2250 mm	Corner frame							
		145						
	Profile frame	205						
		270						
2500 mm	Corner frame							
		145						
	Profile frame	205						
		270						



Basic prices €								
BR height up to		2278	2500		2750		3000	
BR width up to	Wall width			With transom light		With transom light		With transom light
2750 mm	Corner frame	2162	2421	3540	2680	3588	2939	3610
	145	2288	2562	3654	2837	3709	3111	3736
	205	2323	2601	3709	2881	3766	3159	3770
	270	2361	2645	3758	2928	3823	3212	3810
	330	2396	2683	3814	2972	3879	3259	3845
2950 mm	Corner frame	2428	2720	3977	3011	4031	3302	4055
	145	2571	2880	4105	3187	4169	3495	4197
	205	2610	2923	4169	3235	4232	3548	4237
	270	2653	2972	4222	3290	4295	3609	4280
	330	2693	3015	4285	3338	4359	3661	4319

Additional size ranges and wall widths on request

Preparation for accessories	Surcharge €
Frame prepared for 3rd hinge	86
Prepared for KÜ 480 / each	276
Prepared for electric strike	No surcharge
Prepared for ECO dual locking	220
Prepared for single-leaf reed contact (type Link)	130
Prepared for double-leaf reed contact (type Link)	256
Prepared for single-leaf escape door opener	268
Prepared for single-leaf escape door opener in crossframe	268
Prepared for double-leaf escape door opener in crossframe	529
Prepared for alarm contact element	262
Top frame prepared for ITS 96 N20 (single-leaf)	240
Top frame prepared for ITS 96 GSR (double-leaf)	476
Prepared for Fuhr triple lock	148

► The required accessories from the "Accessories and fittings" chapter must be added to the preparation prices

#### Note on surfaces:

For doors in preferred colour, RAL to choose or special colour, 1.5 × the price for the respective surface must be charged!

#### Example:

	Preferred colour	RAL to choose	Special colour
HE 311 (1020 × 2010 mm)	146 €	189 €	284 €
HE 311 with steel frame (× 1.5)	219 €	286 €	428 €

# Good reasons to try Hörmann steel tubular frame construction project doors



Particularly narrow door view

## **S-Line system**

**HÖRMANN**

# Good reasons to try Hörmann aluminium tubular frame construction project doors



Up to  
**55 mm**  
wider clear  
passage width

Elegant door view without visible frame face

## Frame without face

\* compared to door version with fascia frame







# HÖRMANN

# HE 611, HE 911 – aluminium hollow profiled section door

T60 and T90 fire-rated doors, single-leaf

T60

T90

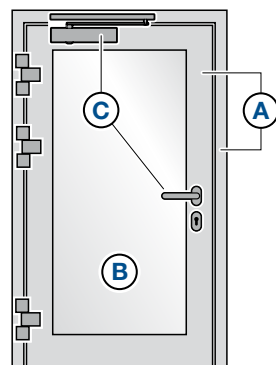
Approved as	T60 internal door	T90 internal door
	<b>HE 611</b>	<b>HE 911</b>
Depth [mm]	80	80
RAM width (min – max) [mm]	605 – 1500	605 – 1500
RAM height (min – max) [mm]	1740 – 2800	1740 – 2800
Optional additional functions	  RC 2 RC 3 	  RC 2 RC 3 

## Detailed product description

Technical description, fitting instructions

HE 611, HE 911

See page 94



### Door set price =

- + **A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 x mortice lock BKS 1828
- 3 x 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, three-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54

**A**

### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price	m² Glazing area	Surface coating * Surcharge		
			HE 611 / HE 911 RAL 9016, E6/EV1		Preferred colour	RAL to choose	Special colour
1020	×	2010	4500	1,30	146	189	284
		2135	4581	1,39	150	194	292
		2290	4682	1,51	153	199	298
		2385	4744	1,58	157	205	306
		2510	4824	1,67	161	209	314
		2600	4884	1,74	164	212	318
		2710	4954	1,82	165	215	322
		2800	5013	1,89	168	219	328
1145	×	2010	4581	1,52	152	198	297
		2135	4664	1,63	156	203	305
		2290	4763	1,76	158	206	308
		2385	4824	1,84	162	211	316
		2510	4906	1,95	165	215	322
		2600	4965	2,03	167	217	325
		2710	5036	2,13	169	220	330
		2800	5094	2,21	174	226	341
1270	×	2010	4664	1,73	157	205	306
		2135	4744	1,86	161	209	314
		2290	4844	2,01	165	215	322
		2385	4906	2,11	167	217	325
		2510	4986	2,23	169	220	330
		2600	5045	2,32	171	222	334
		2710	5117	2,43	174	226	341
		2800	5175	2,52	182	236	354
1370	×	2010	4728	1,91	157	205	306
		2135	4810	2,05	161	209	314
		2290	4908	2,22	165	215	322
		2385	4971	2,32	166	216	324
		2510	5053	2,46	169	220	330
		2600	5112	2,56	171	222	334
		2710	5181	2,68	174	226	341
		2800	5239	2,78	183	237	355
1500	×	2010	4812	2,13	162	211	316
		2135	4894	2,29	165	215	322
		2290	4992	2,48	169	220	330
		2385	5056	2,59	171	222	334
		2510	5137	2,75	174	226	341
		2600	5196	2,86	180	234	349
		2710	5266	2,99	183	237	355
		2800	5324	3,10	187	242	364

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**38**



# Glazings, door fittings, additional functions

HE 611, HE 911 – aluminium hollow profiled section door



B

Glazing (standard delivery glass / panel separate)			Surcharge €
Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications – T60 (HE 611)	No.	max. glass dimensions	Per m² €
Standard F60 glazing	884	1400 × 2820 mm	1592
F60 glazing with matt PVB plastic film	793	1400 × 2900 mm	2630
F60 fire protection panel (2 × aluminium panel, interior fire-proof core)	543	1200 × 2500 mm	1069
For interior applications – T90 (HE 911)	No.	max. glass dimensions	Per m² €
Standard F90 glazing	894	1500 × 3000 mm	2059
F90 glazing with matt PVB plastic film	795	1400 × 2900 mm	4246
F90 fire protection panel (2 × aluminium panel, interior fire-proof core)	541	1200 × 2500 mm	1069

C	Door fitting / additional function		Surcharge €	
			Standard	Aluminium
	• <b>Lever handle set D116</b> , oval rose escutcheon PC			<b>98</b>
				Stainless steel <b>137</b>
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC			Aluminium <b>147</b>
				Stainless steel <b>216</b>
	• <b>HDC 35</b> EN 3–5 with slide rail		Standard	Silver-coloured <b>213</b>
	• Fitting on opening side (hinge side)			RAL to choose <b>276</b>
	• RAM width min. 605 mm, max. 1270 mm			
	• <b>TS 5000</b> EN 2–6 with slide rail			Silver-coloured <b>308</b>
	• Fitting on opening side (hinge side)			RAL to choose <b>360</b>
	• RAM width min. 605 mm, max. 1500 mm			
	• Mortice lock BKS 1828		Standard	
	• Mortice lock BKS 1820 for change-over function B		Anti-panic function, single-leaf / half anti-panic, double-leaf <b>298</b>	
	• Mortice lock BKS 1824 for passage function D		Anti-panic function, single-leaf / half anti-panic, double-leaf <b>227</b>	
	• Mortice lock BKS 1826 for lever / knob function E		Anti-panic function, single-leaf / half anti-panic, double-leaf <b>144</b>	
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, three-part, 3-way adjustable		EV1	Standard
	⚠ Please take into consideration 3 hinges for the leaf!		RAL to choose	Per hinge <b>62</b>
			Stainless steel look	Per hinge <b>86</b>
	• Hörmann guide roller, 2-way adjustable		Stainless steel	Per hinge <b>175</b>
	⚠ Please take into consideration 3 hinges for the leaf!		RAL to choose	Per hinge <b>207</b>

## Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

	<b>Retractable bottom seal</b>			
	• For fitting on a smooth, level floor		Single-leaf	<b>175</b>
	⚠ Limited leak tightness of doors in outside application			
	<b>Delayed retractable bottom seal</b>			
	• Suitable with different pressure ratios (loading houses)		Single-leaf	<b>325</b>
	• For fitting on a smooth, level floor			
	<b>Floor covering transition profile</b>			
	Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor		Single-leaf	<b>36</b>

## Accessories







<b>Glazings and infills</b>	See from page 174
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 202
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180

# HE 621, HE 921 – aluminium hollow profiled section door

T60 and T90 fire-rated doors, double-leaf

T60

T90

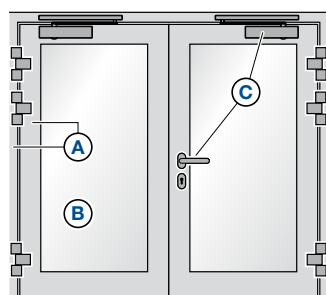
Approved as	T60 internal door	T90 internal door
	<b>HE 621</b>	<b>HE 921</b>
Depth [mm]	80	80
RAM width (min–max) [mm]	1355–2850	1355–2850
RAM height (min–max) [mm]	1740–2800	1740–2800
Optional additional functions	  <b>RC 2</b> 	  <b>RC 2</b> 

## Detailed product description

Technical description, fitting instructions

HE 621, HE 921

See page 34



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 6 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, three-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54

**A**

### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  HE 621 / HE 921 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1500	×	2010	<b>7614</b>	1,86	242	316	475
		2135	<b>7699</b>	2,00	247	321	480
		2290	<b>7804</b>	2,16	253	328	493
		2385	<b>7868</b>	2,26	255	332	498
		2510	<b>7953</b>	2,40	260	340	509
		2600	<b>8013</b>	2,49	262	342	512
		2710	<b>8088</b>	2,61	269	348	522
		2800	<b>8149</b>	2,71	273	355	533
1645	×	2010	<b>7711</b>	2,11	248	323	485
		2135	<b>7795</b>	2,27	253	328	493
		2290	<b>7902</b>	2,45	260	340	509
		2385	<b>7965</b>	2,57	262	342	512
		2510	<b>8050</b>	2,72	269	348	522
		2600	<b>8112</b>	2,83	271	350	527
		2710	<b>8185</b>	2,96	274	356	534
		2800	<b>8246</b>	3,07	279	364	548
1770	×	2010	<b>7795</b>	2,33	254	329	495
		2135	<b>7881</b>	2,50	258	334	504
		2290	<b>7985</b>	2,71	268	346	518
		2385	<b>8050</b>	2,83	270	349	526
		2510	<b>8134</b>	3,00	273	355	533
		2600	<b>8197</b>	3,12	276	360	541
		2710	<b>8269</b>	3,27	279	364	548
		2800	<b>8332</b>	3,39	287	372	560
1895	×	2010	<b>7881</b>	2,55	260	340	509
		2135	<b>7965</b>	2,73	268	346	518
		2290	<b>8071</b>	2,96	272	353	530
		2385	<b>8134</b>	3,10	273	355	533
		2510	<b>8221</b>	3,28	277	361	542
		2600	<b>8281</b>	3,41	281	367	551
		2710	<b>8355</b>	3,57	287	372	560
		2800	<b>8416</b>	3,71	292	379	568

► For additional size ranges, see next page

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**38**

# Glazings, door fittings, additional functions

## HE 621, HE 921 – aluminium hollow profiled section door



Fire protection

Tubular frame parts  
Aluminium

**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Per leaf **198**

#### For interior applications – T60 (HE 611)

No. max. glass dimensions Per m² €

##### Standard F60 glazing

**884** 1400 × 2820 mm **1592**

F60 glazing with matt PVB plastic film

**793** 1400 × 2900 mm **2630**

F60 fire protection panel (2 × aluminium panel, interior fire-proof core)

**543** 1200 × 2500 mm **1069**

#### For interior applications – T90 (HE 921)

No. max. glass dimensions Per m² €

##### Standard F90 glazing

**894** 1500 × 3000 mm **2059**

F90 glazing with matt PVB plastic film

**795** 1400 × 2900 mm **4246**

F90 fire protection panel (2 × aluminium panel, interior fire-proof core)

**541** 1200 × 2500 mm **1069**

**C**

### Door fitting / additional function

Surcharge €



- **Lever handle set D116**, oval rose escutcheon PC

Standard Aluminium **98**

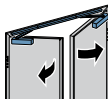
Stainless steel **137**



- **Lever / knob handle set D116 with knob K117**, oval rose escutcheon PC

Aluminium **147**

Stainless steel **216**



- **TS 5000 ISM** with slide rail
- Fitting on opening side (hinge side)
- Opening angle 173°

Standard Silver-coloured **646**

RAL to choose **797**



- Mortice lock BKS 1828 including espagnolette lock (fixed leaf)

Standard



- Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock

Anti-panic function double-leaf **729**

- Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock

Anti-panic function double-leaf **560**

- Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock

Anti-panic function double-leaf **565**



- Standard door hinge (Dr. Hahn 4), 20 mm pivot point, three-part, 3-way adjustable
- ⚠ Please take into consideration 3 hinges for the leaf!

EV1 Standard

RAL to choose Per hinge **62**

Stainless steel look Per hinge **86**



- Hörmann guide roller, 2-way adjustable
- ⚠ Please take into consideration 3 hinges for the leaf!

Stainless steel Per hinge **175**

RAL to choose Per hinge **207**

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

#### Retractable bottom seal

- For fitting on a smooth, level floor

Double-leaf **350**

#### Delayed retractable bottom seal

- Suitable with different pressure ratios (loading houses)
- For fitting on a smooth, level floor

Double-leaf **650**

- ⚠ Limited leak tightness of doors in outside application

#### Floor covering transition profile

Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor

Double-leaf **72**

### Accessories

#### Glazings and infills

See from page 174

#### Horizontal rails / vertical rails

See page 195

#### Fittings

Lever handle sets, profile cylinders, locks and electric extras

See from page 182

#### Door closers, hold-open devices and operators

See from page 203

#### Security features RC 2 / RC 3 acc. to DIN EN 1627




















































See from page 180

# HE 621, HE 921 – aluminium hollow profiled section door

T60 and T90 fire-rated doors, double-leaf

T60

T90

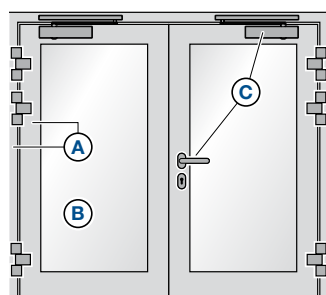
Approved as	T60 internal door	T90 internal door
	<b>HE 621</b>	<b>HE 921</b>
Depth [mm]	80	80
RAM width (min–max) [mm]	1355–2850	1355–2850
RAM height (min–max) [mm]	1740–2800	1740–2800
Optional additional functions	                            	                     

## Detailed product description




Technical description, fitting instructions

HE 621, HE 921

See page 34



### Door set price =

-  Frame / leaf
- +  Glazings
- +  Door fitting / additional function

### Already included in the price:

- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 6 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, three-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  HE 621 / HE 921 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2020	×	2010	<b>7965</b>	2,77	268	346	518
		2135	<b>8050</b>	2,96	271	350	527
		2290	<b>8154</b>	3,21	275	358	536
		2385	<b>8221</b>	3,36	277	361	542
		2510	<b>8305</b>	3,56	284	369	552
		2600	<b>8366</b>	3,70	287	372	560
		2710	<b>8439</b>	3,88	292	379	568
		2800	<b>8501</b>	4,02	298	388	583
2145	×	2010	<b>8050</b>	2,98	271	350	527
		2135	<b>8134</b>	3,20	275	358	536
		2290	<b>8239</b>	3,46	280	366	549
		2385	<b>8305</b>	3,63	286	371	556
		2510	<b>8390</b>	3,84	291	378	567
		2600	<b>8451</b>	3,99	294	382	573
		2710	<b>8524</b>	4,18	298	388	583
		2800	<b>8586</b>	4,34	306	399	598
2270	×	2010	<b>8134</b>	3,20	274	356	534
		2135	<b>8221</b>	3,43	279	364	548
		2290	<b>8325</b>	3,72	287	372	560
		2385	<b>8390</b>	3,89	291	378	567
		2510	<b>8474</b>	4,12	296	384	578
		2600	<b>8536</b>	4,29	299	389	585
		2710	<b>8608</b>	4,49	306	399	598
		2800	<b>8671</b>	4,65	312	405	606
2395	×	2010	<b>8221</b>	3,42	279	364	548
		2135	<b>8305</b>	3,66	286	371	556
		2290	<b>8410</b>	3,97	292	379	568
		2385	<b>8474</b>	4,15	296	384	578
		2510	<b>8559</b>	4,40	304	396	593
		2600	<b>8620</b>	4,58	306	399	598
		2710	<b>8694</b>	4,79	312	405	606
		2800	<b>8755</b>	4,97	318	413	620

► For additional size ranges, see next page

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

38

# Glazings, door fittings, additional functions

HE 621, HE 921 – aluminium hollow profiled section door



B

Glazing (standard delivery glass / panel separate)			Surcharge €
Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications – T60 (HE 611)	No.	max. glass dimensions	Per m² €
Standard F60 glazing	884	1400 × 2820 mm	1592
F60 glazing with matt PVB plastic film	793	1400 × 2900 mm	2630
F60 fire protection panel (2 × aluminium panel, interior fire-proof core)	543	1200 × 2500 mm	1069
For interior applications – T90 (HE 921)	No.	max. glass dimensions	Per m² €
Standard F90 glazing	894	1500 × 3000 mm	2059
F90 glazing with matt PVB plastic film	795	1400 × 2900 mm	4246
F90 fire protection panel (2 × aluminium panel, interior fire-proof core)	541	1200 × 2500 mm	1069

C	Door fitting / additional function		Surcharge €	
			Standard	Aluminium
	• <b>Lever handle set D116</b> , oval rose escutcheon PC			<b>98</b>
				<b>137</b>
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC			<b>147</b>
				<b>216</b>
	• <b>TS 5000 ISM</b> with slide rail • Fitting on opening side (hinge side) • Opening angle 173°		Standard	<b>646</b>
				<b>797</b>
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)			<b>Standard</b>
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock		Anti-panic function double-leaf	<b>729</b>
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock		Anti-panic function double-leaf	<b>560</b>
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock		Anti-panic function double-leaf	<b>565</b>
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, three-part, 3-way adjustable ⚠ Please take into consideration 3 hinges for the leaf!	EV1	Standard	
		RAL to choose	Per hinge	<b>62</b>
		Stainless steel look	Per hinge	<b>86</b>
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 3 hinges for the leaf!	Stainless steel	Per hinge	<b>175</b>
		RAL to choose	Per hinge	<b>207</b>

## Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

	<b>Retractable bottom seal</b>			
	• For fitting on a smooth, level floor		Double-leaf	<b>350</b>
	<b>Delayed retractable bottom seal</b>			
	• Suitable with different pressure ratios (loading houses)		Double-leaf	<b>650</b>
	• For fitting on a smooth, level floor			
	⚠ Limited leak tightness of doors in outside application			
	<b>Floor covering transition profile</b> Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor		Double-leaf	<b>72</b>

## Accessories







<b>Glazings and infills</b>	See from page 174
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 203
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180

# HE 621, HE 921 – aluminium hollow profiled section door

T60 and T90 fire-rated doors, double-leaf

T60

T90

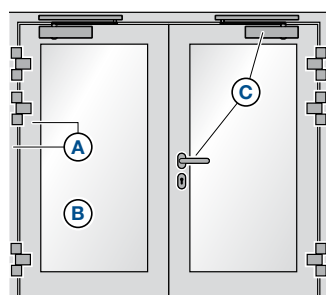
Approved as	T60 internal door	T90 internal door
	<b>HE 621</b>	<b>HE 921</b>
Depth [mm]	80	80
RAM width (min–max) [mm]	1355–2850	1355–2850
RAM height (min–max) [mm]	1740–2800	1740–2800
Optional additional functions	  <b>RC 2</b> 	  <b>RC 2</b> 

## Detailed product description

Technical description, fitting instructions

HE 621, HE 921

See page 34



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 6 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, three-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54

**A**

### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  HE 621 / HE 921 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2520	×	2010	<b>8305</b>	3,63	284	369	552
		2135	<b>8390</b>	3,90	290	377	564
		2290	<b>8493</b>	4,22	296	384	578
		2385	<b>8559</b>	4,42	303	394	590
		2510	<b>8644</b>	4,68	307	400	600
		2600	<b>8705</b>	4,87	312	405	606
		2710	<b>8780</b>	5,10	316	410	617
		2800	<b>8840</b>	5,29	325	423	634
2645	×	2010	<b>8390</b>	3,85	290	377	564
		2135	<b>8474</b>	4,13	295	383	574
		2290	<b>8579</b>	4,47	304	396	593
		2385	<b>8644</b>	4,68	306	399	598
		2510	<b>8729</b>	4,96	313	406	607
		2600	<b>8790</b>	5,16	316	410	617
		2710	<b>8864</b>	5,40	324	422	632
		2800	<b>8924</b>	5,60	329	430	645
2770	×	2010	<b>8474</b>	4,07	292	379	568
		2135	<b>8559</b>	4,36	299	389	585
		2290	<b>8664</b>	4,72	307	400	600
		2385	<b>8729</b>	4,95	312	405	606
		2510	<b>8813</b>	5,24	316	410	617
		2600	<b>8875</b>	5,45	321	415	623
		2710	<b>8949</b>	5,71	328	427	641
		2800	<b>9010</b>	5,92	334	435	654
2850	×	2010	<b>8528</b>	4,21	298	388	583
		2135	<b>8613</b>	4,51	306	399	598
		2290	<b>8717</b>	4,89	313	406	607
		2385	<b>8782</b>	5,12	316	410	617
		2510	<b>8866</b>	5,42	324	422	632
		2600	<b>8927</b>	5,64	328	427	641
		2710	<b>9003</b>	5,90	332	432	648
		2800	<b>9064</b>	6,12	341	442	664

► For additional size ranges, see next page

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**38**

# Glazings, door fittings, additional functions

## HE 621, HE 921 – aluminium hollow profiled section door



B

Glazing (standard delivery glass / panel separate)			Surcharge €
Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications – T60 (HE 611)	No.	max. glass dimensions	Per m² €
Standard F60 glazing	884	1400 × 2820 mm	1592
F60 glazing with matt PVB plastic film	793	1400 × 2900 mm	2630
F60 fire protection panel (2 × aluminium panel, interior fire-proof core)	543	1200 × 2500 mm	1069
For interior applications – T90 (HE 921)	No.	max. glass dimensions	Per m² €
Standard F90 glazing	894	1500 × 3000 mm	2059
F90 glazing with matt PVB plastic film	795	1400 × 2900 mm	4246
F90 fire protection panel (2 × aluminium panel, interior fire-proof core)	541	1200 × 2500 mm	1069

C	Door fitting / additional function		Surcharge €	
			Standard	Aluminium
	• <b>Lever handle set D116</b> , oval rose escutcheon PC			<b>98</b>
			Stainless steel	<b>137</b>
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC			<b>147</b>
			Stainless steel	<b>216</b>
	• <b>TS 5000 ISM</b> with slide rail • Fitting on opening side (hinge side) • Opening angle 173°		Standard	<b>646</b>
			RAL to choose	<b>797</b>
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)		Standard	
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>729</b>	
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>560</b>	
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>565</b>	
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, three-part, 3-way adjustable ⚠ Please take into consideration 3 hinges for the leaf!	EV1	Standard	
		RAL to choose	Per hinge	<b>62</b>
		Stainless steel look	Per hinge	<b>86</b>
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 3 hinges for the leaf!	Stainless steel	Per hinge	<b>175</b>
		RAL to choose	Per hinge	<b>207</b>

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

<b>Retractable bottom seal</b>				
	• For fitting on a smooth, level floor	Double-leaf	<b>350</b>	
	<b>Delayed retractable bottom seal</b>			
	• Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor ⚠ Limited leak tightness of doors in outside application	Double-leaf	<b>650</b>	
	<b>Floor covering transition profile</b> Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor	Double-leaf	<b>72</b>	

### Accessories



<b>Glazings and infills</b>	See from page 174
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 203
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180

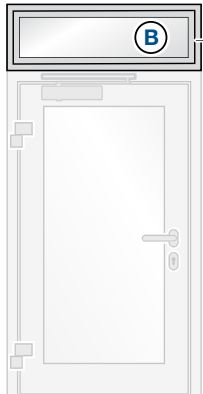
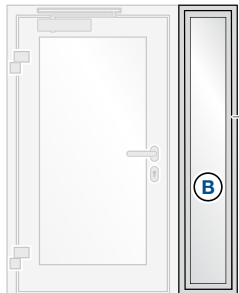

# HE 631, HE 931 – aluminium fixed glazing

F60

F90

Fire-rated glazings F60, F90 – for doors and walls as a transom light, side element or fixed glazing

Approved as	F60 internal fixed glazing	F90 internal fixed glazing
	<b>HE 631</b>	<b>HE 931</b>
Depth [mm]	80	80
RAM width (max) [mm]	Unlimited	Unlimited
RAM height (max) [mm]	4500 without door, 4000 with door	4500 without door, 4000 with door
Optional additional functions	 RC 2 RC 3 TRAV	 RC 2 RC 3 TRAV

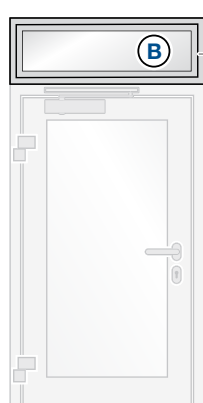
		Fixed glazing HE 631, HE931			Surface coating <sup>2)</sup> Surcharge		
	Ordering sizes (RAM) up to width x up to height		Frame price HE 631 / HE 931 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>1)</sup>	Preferred colour	RAL to choose	Special colour
 Transom light	520 ×	510	1366	0,50	43	55	83
		635	1421	0,50	47	59	89
		760	1477	0,50	49	63	97
		885	1533	0,50	55	71	107
		1040	1603	0,50	61	80	120
		1135	1644	0,50	62	81	123
		1260	1700	0,50	67	87	131
		1395	1761	0,54	71	91	139
		1500	1809	0,59	72	92	141
					47	59	89
 Side element	645 ×	510	1421	0,50	47	59	89
		635	1477	0,50	50	65	98
		760	1533	0,50	56	73	110
		885	1588	0,50	62	81	123
		1040	1659	0,50	67	87	131
		1135	1700	0,56	70	90	137
		1260	1756	0,63	72	92	141
		1395	1817	0,70	76	99	148
		1500	1864	0,76	78	102	152
					50	65	98
 Fixed glazing	770 ×	510	1477	0,50	56	73	110
		635	1533	0,50	56	73	110
		760	1588	0,50	63	83	124
		885	1644	0,52	66	86	130
		1040	1715	0,61	71	91	139
		1135	1756	0,69	75	98	146
		1260	1812	0,77	76	99	148
		1395	1874	0,86	80	104	156
		1500	1920	0,94	80	104	156
					54	70	105
	895 ×	510	1533	0,50	61	80	120
		635	1588	0,50	67	87	131
		760	1644	0,52	71	91	139
		885	1700	0,62	75	98	146
		1040	1770	0,72	78	102	152
		1135	1812	0,82	80	104	156
		1260	1868	0,92	80	104	156
		1395	1927	1,02	81	106	159
		1500	1975	1,12	84	108	164

Larger RAM in width and height on request.

- 1) Minimum calculation surface 0.5 m<sup>2</sup>  
2) For an overview of available surface finishes, see page 54

Other door versions		Surcharge €
	Frame view 110 mm instead of 70 mm (standard)	Per m 38





Transom light



Side element



Fixed glazing

**Door set price =**

- A** Frame  
 + **B** Glazing

**A**
**Fixed glazing HE 631, HE931**

Ordering sizes (RAM) up to width × up to height			Frame price  HE 631 / HE 931 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1020	×	510	<b>1588</b>	0,50	59	78	115
		635	<b>1644</b>	0,50	66	86	130
		760	<b>1700</b>	0,60	71	91	139
		885	<b>1756</b>	0,72	75	98	146
		1040	<b>1826</b>	0,83	79	103	153
		1135	<b>1868</b>	0,95	80	104	156
		1260	<b>1924</b>	1,06	81	106	159
		1395	<b>1984</b>	1,18	85	109	165
1145	×	1500	<b>2032</b>	1,29	86	112	168
		510	<b>1644</b>	0,50	63	83	124
		635	<b>1700</b>	0,56	71	91	139
		760	<b>1756</b>	0,69	72	92	141
		885	<b>1812</b>	0,82	76	99	148
		1040	<b>1883</b>	0,95	81	106	159
		1135	<b>1924</b>	1,08	83	107	161
		1260	<b>1981</b>	1,21	85	109	165
1270	×	1395	<b>2040</b>	1,34	89	116	175
		1500	<b>2089</b>	1,47	91	120	180
		510	<b>1700</b>	0,50	67	87	131
		635	<b>1756</b>	0,62	72	92	141
		760	<b>1812</b>	0,77	76	99	148
		885	<b>1868</b>	0,91	80	104	156
		1040	<b>1938</b>	1,06	84	108	164
		1135	<b>1981</b>	1,21	85	109	165
		1260	<b>2035</b>	1,35	89	116	175
		1395	<b>2096</b>	1,50	91	120	180
		1500	<b>2143</b>	1,64	98	126	189

**Larger RAM in width and height on request.**

- 1) Minimum calculation surface 0.5 m<sup>2</sup>  
 2) For an overview of available surface finishes, see page 54  
 ► For additional size ranges, see next page

**B**
**Glazing** (standard delivery glass / panel separate)

**Surcharge €**

Vertical / horizontal profile construction opening outwards			<b>583</b>
Fitting of the glass or panel at the factory (observe the order information on page 56!)			<b>198</b>
Each			
<b>For interior applications – T60 (HE 631)</b>	<b>No.</b>	<b>max. glass dimensions</b>	<b>Per m<sup>2</sup> €</b>
<b>Standard F60 glazing</b>	<b>884</b>	1400 × 2820 mm	<b>1592</b>
F60 glazing with matt PVB plastic film	<b>793</b>	1400 × 2900 mm	<b>2630</b>
F60 fire protection panel (2 × aluminium panel, interior fire-proof core)	<b>543</b>	1200 × 2500 mm	<b>1069</b>
<b>For interior applications – T90 (HE 931)</b>	<b>No.</b>	<b>max. glass dimensions</b>	<b>Per m<sup>2</sup> €</b>
<b>Standard F90 glazing</b>	<b>894</b>	1500 × 3000 mm	<b>2058</b>
F90 glazing with matt PVB plastic film	<b>795</b>	1400 × 2900 mm	<b>4246</b>
F90 fire protection panel (2 × aluminium panel, interior fire-proof core)	<b>541</b>	1200 × 2500 mm	<b>1069</b>

**Accessories**



<b>Glazings and infills</b>	See page 174
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See page 180

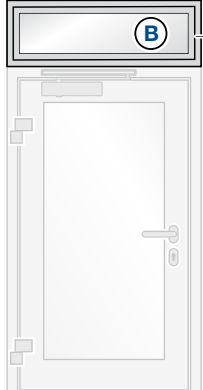
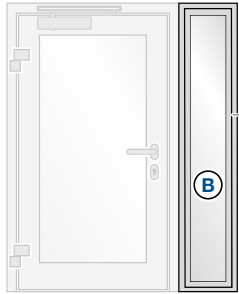

# HE 631, HE 931 – aluminium fixed glazing

Fire-rated glazings F60, F90 – for doors and walls as a transom light, side element or fixed glazing

F60


F90

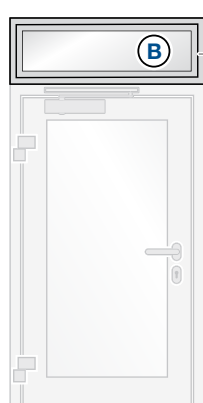
Approved as	F60 internal fixed glazing	F90 internal fixed glazing
	<b>HE 631</b>	<b>HE 931</b>
Depth [mm]	80	80
RAM width (max) [mm]	Unlimited	Unlimited
RAM height (max) [mm]	4500 without door, 4000 with door	4500 without door, 4000 with door
Optional additional functions	 RC 2 RC 3 TRAV	 RC 2 RC 3 TRAV

		Fixed glazing HE 631, HE931			Surface coating <sup>2)</sup> Surcharge		
Ordering sizes (RAM) up to width x up to height		Frame price HE 631 / HE 931 RAL 9016, E6/EV1		m <sup>2</sup> Glazing area <sup>1)</sup>	Preferred colour	RAL to choose	Special colour
 Transom light	1370 ×	510	1746	0,52	71	91	139
		635	1802	0,68	75	98	146
		760	1858	0,83	79	103	153
		885	1913	0,99	81	106	159
		1040	1982	1,15	85	109	165
		1135	2027	1,31	87	113	170
		1260	2081	1,47	91	120	180
		1395	2142	1,63	97	125	187
		1500	2188	1,79	101	130	194
					103	133	200
 Side element	1500 ×	510	1803	0,57	72	92	141
		635	1860	0,75	78	102	152
		760	1917	0,92	80	104	156
		885	1972	1,09	84	108	164
		1040	2040	1,27	87	113	170
		1135	2083	1,44	91	120	180
		1260	2140	1,62	97	125	187
		1395	2200	1,79	101	130	194
		1500	2247	1,97	103	133	200
					106	139	208
 Fixed glazing	1645 ×	510	1868	0,63	76	99	148
		635	1924	0,82	79	103	153
		760	1981	1,02	84	108	164
		885	2035	1,21	86	112	168
		1040	2106	1,40	91	120	180
		1135	2148	1,59	97	125	187
		1260	2204	1,79	101	130	194
		1395	2264	1,98	104	134	201
		1500	2311	2,17	106	139	208
					109	142	213
	1770 ×	510	1924	0,68	79	103	153
		635	1981	0,89	83	107	161
		760	2035	1,10	86	112	168
		885	2092	1,31	90	118	178
		1040	2162	1,51	97	125	187
		1135	2204	1,72	101	130	194
		1260	2260	1,93	103	133	200
		1395	2319	2,14	106	139	208
		1500	2368	2,35	109	142	213

Larger RAM in width and height on request.

- 1) Minimum calculation surface 0.5 m<sup>2</sup>
- 2) For an overview of available surface finishes, see page 54

Other door versions		Surcharge €
	Frame view 110 mm instead of 70 mm (standard)	Per m 38



Transom light



Side element



Fixed glazing

**A**

### Fixed glazing HE 631, HE931

Ordering sizes (RAM) up to width × up to height			Frame price  HE 631 / HE 931 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1895	×	510	<b>1981</b>	0,73	80	104	156
		635	<b>2035</b>	0,96	84	108	164
		760	<b>2092</b>	1,18	89	116	175
		885	<b>2148</b>	1,40	91	120	180
		1040	<b>2218</b>	1,63	99	129	193
		1135	<b>2260</b>	1,85	103	133	200
		1260	<b>2316</b>	2,08	105	135	205
		1395	<b>2376</b>	2,30	109	142	213
2020	×	1500	<b>2424</b>	2,52	112	146	219
		510	<b>2035</b>	0,78	83	107	161
		635	<b>2092</b>	1,02	86	112	168
		760	<b>2148</b>	1,26	89	116	175
		885	<b>2204</b>	1,50	97	125	187
		1040	<b>2274</b>	1,74	102	131	196
		1135	<b>2316</b>	1,98	105	135	205
		1260	<b>2372</b>	2,22	108	141	212
2145	×	1395	<b>2432</b>	2,46	115	151	226
		1500	<b>2480</b>	2,70	120	156	235
		510	<b>2092</b>	0,83	84	108	164
		635	<b>2148</b>	1,09	87	113	170
		760	<b>2204</b>	1,34	91	120	180
		885	<b>2260</b>	1,60	99	129	193
		1040	<b>2330</b>	1,86	104	134	201
		1135	<b>2372</b>	2,11	107	140	209
		1260	<b>2427</b>	2,37	110	144	217
		1395	<b>2488</b>	2,62	120	156	235
		1500	<b>2535</b>	2,88	123	158	238

#### Door set price =

- A** Frame
- + **B** Glazing
- + **C** Accessories

#### Larger RAM in width and height on request.

- 1) Minimum calculation surface 0.5 m<sup>2</sup>
- 2) For an overview of available surface finishes, see page 54
- For additional size ranges, see next page

**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

Vertical / horizontal profile construction opening outwards				<b>583</b>
Fitting of the glass or panel at the factory (observe the order information on page 56!)		Each		<b>198</b>
<b>For interior applications – T60 (HE 631)</b>	<b>No.</b>	<b>max. glass dimensions</b>	<b>Per m<sup>2</sup> €</b>	
<b>Standard F60 glazing</b>	<b>884</b>	1400 × 2820 mm	<b>1592</b>	
F60 glazing with matt PVB plastic film	<b>793</b>	1400 × 2900 mm	<b>2630</b>	
F60 fire protection panel (2 × aluminium panel, interior fire-proof core)	<b>543</b>	1200 × 2500 mm	<b>1069</b>	
<b>For interior applications – T90 (HE 931)</b>	<b>No.</b>	<b>max. glass dimensions</b>	<b>Per m<sup>2</sup> €</b>	
<b>Standard F90 glazing</b>	<b>894</b>	1500 × 3000 mm	<b>2058</b>	
F90 glazing with matt PVB plastic film	<b>795</b>	1400 × 2900 mm	<b>4246</b>	
F90 fire protection panel (2 × aluminium panel, interior fire-proof core)	<b>541</b>	1200 × 2500 mm	<b>1069</b>	

#### Accessories







Glazings and infills	See page 174
Horizontal rails / vertical rails	See page 195
Security features RC 2 / RC 3 acc. to DIN EN 1627	See page 180

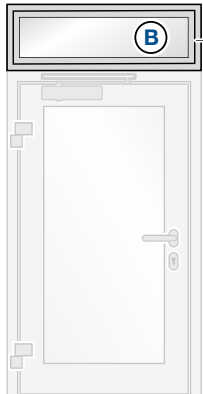
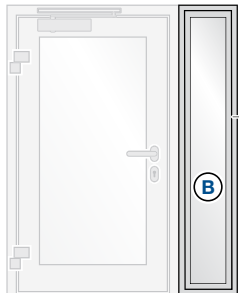

# HE 631, HE 931 – aluminium fixed glazing

Fire-rated glazings F60, F90 – for doors and walls as a transom light, side element or fixed glazing

F60


F90

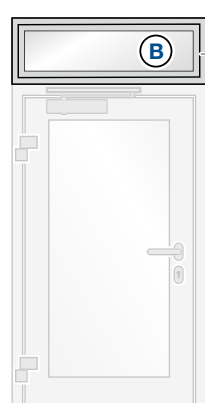
Approved as	F60 internal fixed glazing	F90 internal fixed glazing
	<b>HE 631</b>	<b>HE 931</b>
Depth [mm]	80	80
RAM width (max) [mm]	Unlimited	Unlimited
RAM height (max) [mm]	4500 without door, 4000 with door	4500 without door, 4000 with door
Optional additional functions	 RC 2  RC 3  TRAV	 RC 2  RC 3  TRAV

		Fixed glazing HE 631, HE931			Surface coating <sup>2)</sup> Surcharge		
Ordering sizes (RAM) up to width x up to height		Frame price  HE 631 / HE 931 RAL 9016, E6/EV1		m <sup>2</sup> Glazing area <sup>1)</sup>	Preferred colour	RAL to choose	Special colour
	2270 ×	510	2148	0,88	86	112	168
		635	2204	1,16	89	116	175
		760	2260	1,43	97	125	187
		885	2316	1,70	102	131	196
		1040	2385	1,97	106	139	208
		1135	2427	2,24	109	142	213
		1260	2483	2,51	116	152	227
		1395	2543	2,78	123	158	238
		1500	2591	3,05	126	164	244
					87	113	170
	2395 ×	510	2204	0,94	94	124	186
		635	2260	1,22	99	129	193
		760	2316	1,51	104	134	201
		885	2372	1,80	108	141	212
		1040	2442	2,08	112	146	219
		1135	2483	2,37	121	157	236
		1260	2540	2,66	126	164	244
		1395	2599	2,94	130	168	253
		1500	2648	3,23	89	116	175
					97	125	187
	2500 ×	510	2251	0,98	102	131	196
		635	2308	1,28	106	139	208
		760	2364	1,58	110	144	217
		885	2419	1,88	116	152	227
		1040	2488	2,18	124	161	241
		1135	2530	2,48	129	167	251
		1260	2587	2,78	132	171	258
		1395	2648	3,08	90	118	178
		1500	2695	3,38	99	129	193
					103	133	200
	2615 ×	510	2302	1,03	107	140	209
		635	2358	1,34	116	152	227
		760	2415	1,65	121	157	236
		885	2470	1,97	126	164	244
		1040	2540	2,28	131	170	256
		1135	2583	2,60	137	178	269
		1260	2638	2,91			
		1395	2698	3,22			
		1500	2746	3,54			

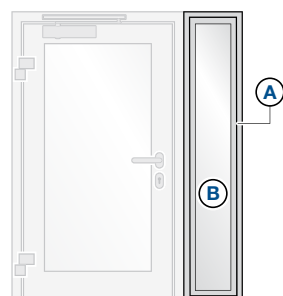
Larger RAM in width and height on request.

- 1) Minimum calculation surface 0.5 m<sup>2</sup>  
2) For an overview of available surface finishes, see page 54

Other door versions		Surcharge €
	Frame view 110 mm instead of 70 mm (standard)	Per m 38



Transom light



Side element



Fixed glazing

A

### Fixed glazing HE 631, HE931

Ordering sizes (RAM) up to width × up to height			Frame price  HE 631 / HE 931 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
2730	×	510	<b>2355</b>	1,07	88	116	174
		635	<b>2410</b>	1,40	94	122	183
		760	<b>2466</b>	1,73	99	127	192
		885	<b>2523</b>	2,06	103	133	200
		1040	<b>2591</b>	2,39	113	148	221
		1135	<b>2634</b>	2,71	116	151	227
		1260	<b>2691</b>	3,04	121	156	235
		1395	<b>2749</b>	3,37	127	167	250
2845	×	1500	<b>2798</b>	3,70	131	171	256
		510	<b>2405</b>	1,12	91	119	177
		635	<b>2463</b>	1,46	97	125	188
		760	<b>2517</b>	1,80	100	130	195
		885	<b>2574</b>	2,15	105	136	206
		1040	<b>2642</b>	2,49	115	149	223
		1135	<b>2687</b>	2,83	120	155	234
		1260	<b>2742</b>	3,18	123	159	240
3000	×	1395	<b>2802</b>	3,52	130	169	253
		1500	<b>2848</b>	3,86	134	175	262
		510	<b>2476</b>	1,18	92	121	182
		635	<b>2531</b>	1,54	99	127	192
		760	<b>2588</b>	1,91	102	132	199
		885	<b>2642</b>	2,27	109	143	213
		1040	<b>2713</b>	2,63	119	153	230
		1135	<b>2755</b>	2,99	122	157	237
		1260	<b>2809</b>	3,36	129	168	252
		1395	<b>2872</b>	3,72	133	173	259
		1500	<b>2917</b>	4,08	139	182	273

### Door set price =

- A Frame
- + B Glazing
- + C Accessories

### Larger RAM in width and height on request.

- 1) Minimum calculation surface 0.5 m<sup>2</sup>
- 2) For an overview of available surface finishes, see page 54
- For additional size ranges, see next page

B

### Glazing (standard delivery glass / panel separate)

Surcharge €

Vertical / horizontal profile construction opening outwards				<b>583</b>
Fitting of the glass or panel at the factory (observe the order information on page 56!)				<b>198</b>
For interior applications – T60 (HE 631)				
	No.	max. glass dimensions	Per m <sup>2</sup> €	
Standard F60 glazing	884	1400 × 2820 mm	1592	
F60 glazing with matt PVB plastic film	793	1400 × 2900 mm	2630	
F60 fire protection panel (2 × aluminium panel, interior fire-proof core)	543	1200 × 2500 mm	1069	
For interior applications – T90 (HE 931)				
	No.	max. glass dimensions	Per m <sup>2</sup> €	
Standard F90 glazing	894	1500 × 3000 mm	2058	
F90 glazing with matt PVB plastic film	795	1400 × 2900 mm	4246	
F90 fire protection panel (2 × aluminium panel, interior fire-proof core)	541	1200 × 2500 mm	1069	

### Accessories

Glazings and infills	See page 174
Horizontal rails / vertical rails	See page 195
Security features RC 2 / RC 3 acc. to DIN EN 1627	See page 180

# Good reasons to try Hörmann steel loft doors



Industrial style for living areas and workspaces

**Large glazings with  
high-quality steel profiles**

**HÖRMANN**

# Aluminium smoke-tight door assemblies

Aluminium tubular frame parts

## Contents



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# A / RS 150 – aluminium hollow profiled section door

## Smoke-tight door assemblies, single-leaf



Approved as	Smoke-tight internal door	Smoke-tight internal door
	<b>A/RS 150</b>	<b>A/RS 150</b> With steel frame
Depth [mm]	50 mm	50 mm
RAM width (min – max) [mm]	605 – 1500	BRM 535 – 1430
RAM height (min – max) [mm]	1740 – 3000	BRM 1705 – 2965
RAM including transom light max. [mm]		BRM 1430 – 3500
Optional additional functions		

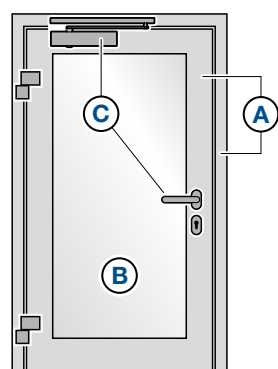
### Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 150

A / RS 150 with steel frame

See page 36



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 1 × retractable bottom seal
- 1 × mortice lock BKS 1828
- 2 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

### Larger RAM in width and height on request.

► State opening sense on order!

\* For an overview of available surface finishes, see page 54

A

Frame / leaf									
Ordering sizes (RAM) up to width x up to height			Frame / door leaf price		m² Glazing area	Surface coating * Surcharge			
			A/RS 150 RAL 9016, E6/EV1			Preferred colour	RAL to choose	Special colour	
1020	x	2010	2082		1,30	146	189	284	
		2135	2104		1,39	150	194	292	
		2290	2130		1,51	153	199	298	
		2385	2144		1,58	157	205	306	
		2510	2165		1,67	161	209	314	
		2600	2180		1,74	164	212	318	
		2710	2199		1,82	165	215	322	
		2885	2227		1,95	168	219	328	
1145	x	3000	2247		2,04	170	221	332	
		2010	2104		1,52	152	198	297	
		2135	2124		1,63	156	203	305	
		2290	2149		1,76	158	206	308	
		2385	2165		1,84	162	211	316	
		2510	2187		1,95	165	215	322	
		2600	2201		2,03	167	217	325	
		2710	2220		2,13	169	220	330	
1270	x	2885	2249		2,28	174	226	341	
		3000	2269		2,38	180	234	349	
		2010	2124		1,73	157	205	306	
		2135	2144		1,86	161	209	314	
		2290	2170		2,01	165	215	322	
		2385	2187		2,11	167	217	325	
		2510	2207		2,23	169	220	330	
		2600	2222		2,32	171	222	334	
		2710	2241		2,43	174	226	341	
		2885	2270		2,61	182	236	354	
		3000	2288		2,72	184	238	358	

► For additional size ranges, see next page

### Other door versions

### Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**22**



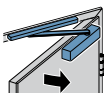
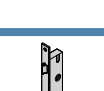









# Glazings, door fittings, additional functions

## A / RS 150 – aluminium hollow profiled section door



B	Glazing (standard delivery glass / panel fitted at the factory)		Surcharge €	
	For interior applications	No.	max. glass dimensions	Per m² €
	Standard glazing, laminated safety glass 6 mm	033	2250 × 2333 mm	99
	Glazing, laminated safety glass 8 mm (standard from RAM height 2710 mm)	525	2600 × 4500 mm	115
	Glazing laminated safety glass 10 mm	527	2600 × 4500 mm	158
	Glazing laminated safety glass 6 mm with matt plastic film	528	2250 × 2333 mm	155
	Glazing single-pane safety glass 8 mm	524	2400 × 4500 mm	178
	Glazing single-pane safety glass 10 mm	526	2400 × 4500 mm	239
	Aluminium panel	527	1250 × 2500 mm	617
	Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	514	1250 × 2500 mm	790

C Door fitting / additional function		Surcharge €	
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	Standard	Aluminium 98
			Stainless steel 137
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC		Aluminium 147
			Stainless steel 216
	• <b>HDC 35 EN 3–5</b> with slide rail • Fitting on opening side (hinge side) • RAM width min. 605 mm, max. 1270 mm	Standard	Silver-coloured 213
			RAL to choose 276
	• <b>TS 5000 EN 2–6</b> with slide rail • Fitting on opening side (hinge side) • RAM width min. 605 mm, max. 1500 mm	Standard	Silver-coloured 308
			RAL to choose 360
	• Mortice lock BKS 1828		Standard
	• Mortice lock BKS 1820 for change-over function B	Anti-panic function, single-leaf / half anti-panic, double-leaf	298
	• Mortice lock BKS 1824 for passage function D	Anti-panic function, single-leaf / half anti-panic, double-leaf	227
	• Mortice lock BKS 1826 for lever / knob function E	Anti-panic function, single-leaf / half anti-panic, double-leaf	144
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1	Standard
		RAL to choose	Per hinge 62
		Stainless steel look	Per hinge 86
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel	Per hinge 175
		RAL to choose	Per hinge 207
		Smoke-tight acc. to DIN 18095 / DIN EN 1634-3	
	<b>Retractable bottom seal</b> • For fitting on a smooth, level floor	Single-leaf	Standard
	<b>Delayed retractable bottom seal</b> • Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor	Single-leaf	150
	<b>Floor covering transition profile</b> Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor	Single-leaf	36

### Accessories

Glazings and infills	See from page 176
Horizontal rails / vertical rails	See page 195
Fittings	See from page 182
Lever handle sets, profile cylinders, locks and electric extras	See from page 182
Door closers, hold-open devices and operators	See from page 196
Security features RC 2 / RC 3 acc. to DIN EN 1627	See from page 180
Steel frames for tubular frame parts	See from page 168

# A / RS 150 – aluminium hollow profiled section door

## Smoke-tight door assemblies, single-leaf



Approved as	Smoke-tight internal door	Smoke-tight internal door
	<b>A/RS 150</b>	<b>A/RS 150</b> With steel frame
Depth [mm]	50 mm	50 mm
RAM width (min – max) [mm]	605 – 1500	BRM 535 – 1430
RAM height (min – max) [mm]	1740 – 3000	BRM 1705 – 2965
RAM including transom light max. [mm]		BRM 1430 – 3500
Optional additional functions		

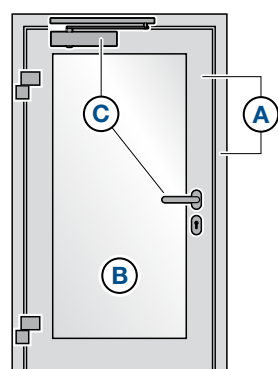
### Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 150

A / RS 150 with steel frame

See page 36



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 × retractable bottom seal
- 1 × mortice lock BKS 1828
- 2 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

**Larger RAM in width and height on request.**

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  A/RS 150 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1370	×	2010	<b>2141</b>	1,91	157	205	306
		2135	<b>2162</b>	2,05	161	209	314
		2290	<b>2187</b>	2,22	165	215	322
		2385	<b>2202</b>	2,32	166	216	324
		2510	<b>2224</b>	2,46	169	220	330
		2600	<b>2238</b>	2,56	171	222	334
		2710	<b>2257</b>	2,68	174	226	341
		2885	<b>2285</b>	2,87	183	237	355
1500	×	3000	<b>2306</b>	3,00	185	239	359
		2010	<b>2163</b>	2,13	162	211	316
		2135	<b>2183</b>	2,29	165	215	322
		2290	<b>2208</b>	2,48	169	220	330
		2385	<b>2224</b>	2,59	171	222	334
		2510	<b>2246</b>	2,75	174	226	341
		2600	<b>2260</b>	2,86	180	234	349
		2710	<b>2280</b>	2,99	183	237	355
		2885	<b>2308</b>	3,21	187	242	364
		3000	<b>2328</b>	3,35	189	247	370

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**22**

# Glazings, door fittings, additional functions

## A / RS 150 – aluminium hollow profiled section door





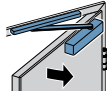

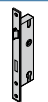



Smoke protection

Tubular frame parts  
Aluminium




**B**

Glazing (standard delivery glass / panel fitted at the factory)	No.	max. glass dimensions	Surcharge €
<b>For interior applications</b>			<b>Per m² €</b>
<i>Standard</i> glazing, laminated safety glass 6 mm	<b>033</b>	2250 × 2333 mm	<b>99</b>
Glazing, laminated safety glass 8 mm ( <i>standard from RAM height 2710 mm</i> )	<b>525</b>	2600 × 4500 mm	<b>115</b>
Glazing laminated safety glass 10 mm	<b>527</b>	2600 × 4500 mm	<b>158</b>
Glazing laminated safety glass 6 mm with matt plastic film	<b>528</b>	2250 × 2333 mm	<b>155</b>
Glazing single-pane safety glass 8 mm	<b>524</b>	2400 × 4500 mm	<b>178</b>
Glazing single-pane safety glass 10 mm	<b>526</b>	2400 × 4500 mm	<b>239</b>
Aluminium panel	<b>527</b>	1250 × 2500 mm	<b>617</b>
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	<b>514</b>	1250 × 2500 mm	<b>790</b>

**C**

Door fitting / additional function	No.	max. glass dimensions	Surcharge €
 • <b>Lever handle set D116</b> , oval rose escutcheon PC		<i>Standard</i>	Aluminium <b>98</b>
			Stainless steel <b>137</b>
 • <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC			Aluminium <b>147</b>
			Stainless steel <b>216</b>
 • <b>HDC 35</b> EN 3–5 with slide rail		<i>Standard</i>	Silver-coloured <b>213</b>
• Fitting on opening side (hinge side)			RAL to choose <b>276</b>
• RAM width min. 605 mm, max. 1270 mm			
 • <b>TS 5000</b> EN 2–6 with slide rail		<i>Standard</i>	Silver-coloured <b>308</b>
• Fitting on opening side (hinge side)			RAL to choose <b>360</b>
• RAM width min. 605 mm, max. 1500 mm			
 • Mortice lock BKS 1828			<i>Standard</i>
 • Mortice lock BKS 1820 for change-over function B		Anti-panic function, single-leaf / half anti-panic, double-leaf	<b>298</b>
• Mortice lock BKS 1824 for passage function D		Anti-panic function, single-leaf / half anti-panic, double-leaf	<b>227</b>
• Mortice lock BKS 1826 for lever / knob function E		Anti-panic function, single-leaf / half anti-panic, double-leaf	<b>144</b>
 • Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable		EV1	<i>Standard</i>
⚠ Please take into consideration 2 hinges for the leaf!		RAL to choose	Per hinge <b>62</b>
		Stainless steel look	Per hinge <b>86</b>
 • Hörmann guide roller, 2-way adjustable		Stainless steel	Per hinge <b>175</b>
⚠ Please take into consideration 2 hinges for the leaf!		RAL to choose	Per hinge <b>207</b>

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

	<b>Retractable bottom seal</b>		
	• For fitting on a smooth, level floor	Single-leaf	<i>Standard</i>
	<b>Delayed retractable bottom seal</b>		
	• Suitable with different pressure ratios (loading houses)	Single-leaf	<b>150</b>
	• For fitting on a smooth, level floor		
	<b>Floor covering transition profile</b>		
	Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor	Single-leaf	<b>36</b>

### Accessories

<b>Glazings and infills</b>	See from page 176
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b>	See from page 182
Lever handle sets, profile cylinders, locks and electric extras	
<b>Door closers, hold-open devices and operators</b>	See from page 196
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 168

# A / RS 250 – aluminium hollow profiled section door

Smoke-tight door assemblies, double-leaf



Approved as	Smoke-tight internal door	Smoke-tight internal door
	A/RS 250	A/RS 250 With steel frame
Depth [mm]	50 mm	50 mm
RAM width (min – max) [mm]	1355 – 3000	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	BRM 1705 × 2965
RAM including transom light max. [mm]		BRM 2930 × 3500
Optional additional functions		

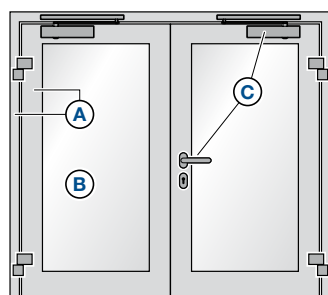
## Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 250

A / RS 250 with steel frame

See page 36



### Door set price =

- Frame / leaf
- + Glazings
- + Door fitting / additional function

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

### Larger RAM on request

- State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  A/RS 250 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1500	×	2010	<b>3699</b>	1,86	242	316	475
		2135	<b>3721</b>	2,00	247	321	480
		2290	<b>3747</b>	2,16	253	328	493
		2385	<b>3763</b>	2,26	255	332	498
		2510	<b>3785</b>	2,40	260	340	509
		2600	<b>3801</b>	2,49	262	342	512
		2710	<b>3819</b>	2,61	269	348	522
		2885	<b>3850</b>	2,80	273	355	533
		3000	<b>3871</b>	2,92	275	358	536
1645	×	2010	<b>3723</b>	2,11	248	323	485
		2135	<b>3745</b>	2,27	253	328	493
		2290	<b>3773</b>	2,45	260	340	509
		2385	<b>3788</b>	2,57	262	342	512
		2510	<b>3811</b>	2,72	269	348	522
		2600	<b>3826</b>	2,83	271	350	527
		2710	<b>3845</b>	2,96	274	356	534
		2885	<b>3876</b>	3,18	279	364	548
		3000	<b>3896</b>	3,32	284	369	552
1770	×	2010	<b>3745</b>	2,33	254	329	495
		2135	<b>3767</b>	2,50	258	334	504
		2290	<b>3794</b>	2,71	268	346	518
		2385	<b>3811</b>	2,83	270	349	526
		2510	<b>3833</b>	3,00	273	355	533
		2600	<b>3847</b>	3,12	276	360	541
		2710	<b>3868</b>	3,27	279	364	548
		2885	<b>3897</b>	3,50	287	372	560
		3000	<b>3918</b>	3,66	291	378	567

► For additional size ranges, see next page

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

22

# Glazings, door fittings, additional functions

## A / RS 250 – aluminium hollow profiled section door



Smoke protection

Tubular frame parts  
Aluminium

**B**

### Glazing (standard delivery glass / panel fitted at the factory)

Surcharge €

For interior applications	No.	max. glass dimensions	Per m <sup>2</sup> €
<i>Standard</i> glazing, laminated safety glass 6 mm	<b>033</b>	2250 × 2333 mm	<b>99</b>
Glazing, laminated safety glass 8 mm ( <i>standard from RAM height 2710 mm</i> )	<b>525</b>	2600 × 4500 mm	<b>115</b>
Glazing laminated safety glass 10 mm	<b>527</b>	2600 × 4500 mm	<b>158</b>
Glazing laminated safety glass 6 mm with matt plastic film	<b>528</b>	2250 × 2333 mm	<b>155</b>
Glazing single-pane safety glass 8 mm	<b>524</b>	2400 × 4500 mm	<b>178</b>
Glazing single-pane safety glass 10 mm	<b>526</b>	2400 × 4500 mm	<b>239</b>
Aluminium panel	<b>527</b>	1250 × 2500 mm	<b>617</b>
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	<b>514</b>	1250 × 2500 mm	<b>790</b>

**C**

### Door fitting / additional function

Surcharge €

	• <b>Lever handle set D116</b> , oval rose escutcheon PC	<i>Standard</i> Aluminium	<b>98</b>
		Stainless steel	<b>137</b>
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC	Aluminium	<b>147</b>
		Stainless steel	<b>216</b>
	• <b>TS 5000 ISM</b> with slide rail • Fitting on opening side (hinge side) • Opening angle 173°	<i>Standard</i> Silver-coloured	<b>646</b>
		RAL to choose	<b>797</b>
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)	<i>Standard</i>	
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>729</b>
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>560</b>
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>565</b>
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1 <i>Standard</i>	
		RAL to choose Per hinge	<b>62</b>
		Stainless steel look Per hinge	<b>86</b>
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel Per hinge	<b>175</b>
		RAL to choose Per hinge	<b>207</b>

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

	<b>Retractable bottom seal</b>		
	• For fitting on a smooth, level floor	Double-leaf	<i>Standard</i>
	<b>Delayed retractable bottom seal</b>		
	• Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor	Double-leaf	<b>298</b>
	<b>Floor covering transition profile</b> Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor	Double-leaf	<b>72</b>

### Accessories

<b>Glazings and infills</b>	See from page 176
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 198
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 168

# A / RS 250 – aluminium

## Smoke-tight door assemblies, double-leaf



Approved as	Smoke-tight internal door	Smoke-tight internal door
	A/RS 250	A/RS 250 With steel frame
Depth [mm]	50 mm	50 mm
RAM width (min – max) [mm]	1355 – 3000	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	BRM 1705 × 2965
RAM including transom light max. [mm]		BRM 2930 × 3500
Optional additional functions		

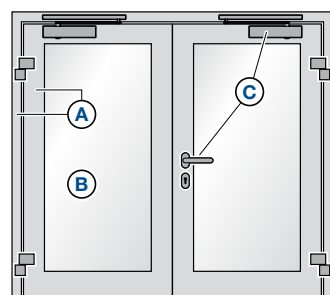
### Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 250

A / RS 250 with steel frame

See page 36



### Door set price =

- Frame / leaf
- + Glazings
- + Door fitting / additional function

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

### Larger RAM on request

- State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  A/RS 250 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1895	×	2010	<b>3767</b>	2,55	260	340	509
		2135	<b>3788</b>	2,73	268	346	518
		2290	<b>3816</b>	2,96	272	353	530
		2385	<b>3833</b>	3,10	273	355	533
		2510	<b>3855</b>	3,28	277	361	542
		2600	<b>3870</b>	3,41	281	367	551
		2710	<b>3890</b>	3,57	287	372	560
		2885	<b>3919</b>	3,83	292	379	568
2020	×	3000	<b>3940</b>	4,00	296	384	578
		2010	<b>3788</b>	2,77	268	346	518
		2135	<b>3811</b>	2,96	271	350	527
		2290	<b>3837</b>	3,21	275	358	536
		2385	<b>3855</b>	3,36	277	361	542
		2510	<b>3876</b>	3,56	284	369	552
		2600	<b>3892</b>	3,70	287	372	560
		2710	<b>3912</b>	3,88	292	379	568
2145	×	2885	<b>3941</b>	4,16	298	388	583
		3000	<b>3962</b>	4,34	305	398	597
		2010	<b>3811</b>	2,98	271	350	527
		2135	<b>3833</b>	3,20	275	358	536
		2290	<b>3859</b>	3,46	280	366	549
		2385	<b>3876</b>	3,63	286	371	556
		2510	<b>3897</b>	3,84	291	378	567
		2600	<b>3914</b>	3,99	294	382	573
		2710	<b>3932</b>	4,18	298	388	583
		2885	<b>3963</b>	4,48	306	399	598
		3000	<b>3984</b>	4,68	312	405	606

► For additional size ranges, see next page

### Other door versions

### Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m



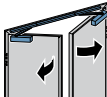







**22**

# Glazings, door fittings, additional functions

## A / RS 250 – aluminium hollow profiled section door



B	Glazing (standard delivery glass / panel fitted at the factory)		Surcharge €	
	For interior applications	No.	max. glass dimensions	Per m² €
	<i>Standard</i> glazing, laminated safety glass 6 mm	033	2250 × 2333 mm	99
	Glazing, laminated safety glass 8 mm ( <i>standard from RAM height 2710 mm</i> )	525	2600 × 4500 mm	115
	Glazing laminated safety glass 10 mm	527	2600 × 4500 mm	158
	Glazing laminated safety glass 6 mm with matt plastic film	528	2250 × 2333 mm	155
	Glazing single-pane safety glass 8 mm	524	2400 × 4500 mm	178
	Glazing single-pane safety glass 10 mm	526	2400 × 4500 mm	239
	Aluminium panel	527	1250 × 2500 mm	617
	Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	514	1250 × 2500 mm	790

C Door fitting / additional function		Surcharge €	
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	Standard	Aluminium 98
			Stainless steel 137
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC		Aluminium 147
			Stainless steel 216
	• <b>TS 5000 ISM</b> with slide rail • Fitting on opening side (hinge side) • Opening angle 173°	Standard	Silver-coloured 646
			RAL to choose 797
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)		Standard
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock	Anti-panic function double-leaf	729
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock	Anti-panic function double-leaf	560
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf	565
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1	Standard
		RAL to choose	Per hinge 62
		Stainless steel look	Per hinge 86
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel	Per hinge 175
		RAL to choose	Per hinge 207
		Smoke-tight acc. to DIN 18095 / DIN EN 1634-3	
	<b>Retractable bottom seal</b>		
	• For fitting on a smooth, level floor	Double-leaf	Standard
	<b>Delayed retractable bottom seal</b>		
	• Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor	Double-leaf	298
	<b>Floor covering transition profile</b> Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor	Double-leaf	72

### Accessories

<b>Glazings and infills</b>	See from page 176
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 198
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 168

# A / RS 250 – aluminium

## Smoke-tight door assemblies, double-leaf



Approved as	Smoke-tight internal door	Smoke-tight internal door
	A/RS 250	A/RS 250 With steel frame
Depth [mm]	50 mm	50 mm
RAM width (min – max) [mm]	1355 – 3000	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	BRM 1705 × 2965
RAM including transom light max. [mm]		BRM 2930 × 3500
Optional additional functions		

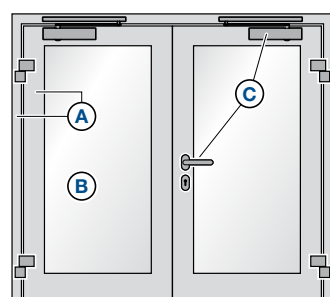
### Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 250

A / RS 250 with steel frame

See page 36



### Door set price =

- Frame / leaf
- + Glazings
- + Door fitting / additional function

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

### Larger RAM on request

- State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  A/RS 250 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2270	×	2010	<b>3728</b>	3,20	261	339	509
		2135	<b>3749</b>	3,43	266	347	522
		2290	<b>3775</b>	3,72	274	355	534
		2385	<b>3791</b>	3,89	277	360	540
		2510	<b>3812</b>	4,12	282	366	551
		2600	<b>3827</b>	4,29	285	371	558
		2710	<b>3846</b>	4,49	292	380	570
		2885	<b>3876</b>	4,81	297	386	578
		3000	<b>3896</b>	5,02	301	391	588
2395	×	2010	<b>3749</b>	3,42	266	347	522
		2135	<b>3769</b>	3,66	273	354	530
		2290	<b>3795</b>	3,97	278	361	541
		2385	<b>3812</b>	4,15	282	366	551
		2510	<b>3833</b>	4,40	290	377	565
		2600	<b>3848</b>	4,58	292	380	570
		2710	<b>3867</b>	4,79	297	386	578
		2885	<b>3897</b>	5,14	303	394	591
		3000	<b>3917</b>	5,36	309	402	602
2500	×	2010	<b>3766</b>	3,60	271	352	526
		2135	<b>3787</b>	3,86	276	359	538
		2290	<b>3813</b>	4,18	282	366	551
		2385	<b>3830</b>	4,38	289	376	562
		2510	<b>3850</b>	4,63	293	381	572
		2600	<b>3867</b>	4,82	297	386	578
		2710	<b>3886</b>	5,05	301	391	588
		2885	<b>3916</b>	5,41	310	403	604
		3000	<b>3934</b>	5,65	313	407	611

► For additional size ranges, see next page

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

22



# Glazings, door fittings, additional functions



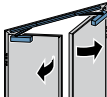







## A / RS 250 – aluminium hollow profiled section door



Smoke protection

Tubular frame parts  
Aluminium

B	Glazing (standard delivery glass / panel fitted at the factory)		Surcharge €	
	For interior applications	No.	max. glass dimensions	Per m² €
	<i>Standard</i> glazing, laminated safety glass 6 mm	<b>033</b>	2250 × 2333 mm	<b>99</b>
	Glazing, laminated safety glass 8 mm ( <i>standard from RAM height 2710 mm</i> )	<b>525</b>	2600 × 4500 mm	<b>115</b>
	Glazing laminated safety glass 10 mm	<b>527</b>	2600 × 4500 mm	<b>158</b>
	Glazing laminated safety glass 6 mm with matt plastic film	<b>528</b>	2250 × 2333 mm	<b>155</b>
	Glazing single-pane safety glass 8 mm	<b>524</b>	2400 × 4500 mm	<b>178</b>
	Glazing single-pane safety glass 10 mm	<b>526</b>	2400 × 4500 mm	<b>239</b>
	Aluminium panel	<b>527</b>	1250 × 2500 mm	<b>617</b>
	Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	<b>514</b>	1250 × 2500 mm	<b>790</b>

C Door fitting / additional function		Surcharge €	
	<ul style="list-style-type: none"><li>Lever handle set D116, oval rose escutcheon PC</li></ul>	Standard	Aluminium 98
			Stainless steel 137
	<ul style="list-style-type: none"><li>Lever / knob handle set D116 with knob K117, oval rose escutcheon PC</li></ul>		Aluminium 147
			Stainless steel 216
	<ul style="list-style-type: none"><li>TS 5000 ISM with slide rail</li><li>Fitting on opening side (hinge side)</li><li>Opening angle 173°</li></ul>	Standard	Silver-coloured 646
			RAL to choose 797
	<ul style="list-style-type: none"><li>Mortice lock BKS 1828 including espagnolette lock (fixed leaf)</li></ul>		Standard
	<ul style="list-style-type: none"><li>Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	729
	<ul style="list-style-type: none"><li>Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	560
	<ul style="list-style-type: none"><li>Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	565
	<ul style="list-style-type: none"><li>Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable</li></ul> <p>⚠ Please take into consideration 2 hinges for the leaf!</p>	EV1	Standard
		RAL to choose	Per hinge 62
		Stainless steel look	Per hinge 86
	<ul style="list-style-type: none"><li>Hörmann guide roller, 2-way adjustable</li></ul> <p>⚠ Please take into consideration 2 hinges for the leaf!</p>	Stainless steel	Per hinge 175
		RAL to choose	Per hinge 207
Smoke-tight acc. to DIN 18095 / DIN EN 1634-3			
	<b>Retractable bottom seal</b> <ul style="list-style-type: none"><li>For fitting on a smooth, level floor</li></ul>	Double-leaf	Standard
		<b>Delayed retractable bottom seal</b> <ul style="list-style-type: none"><li>Suitable with different pressure ratios (loading houses)</li><li>For fitting on a smooth, level floor</li></ul>	Double-leaf
	<b>Floor covering transition profile</b> <p>Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor</p>	Double-leaf	72

### Accessories

<b>Glazings and infills</b>	See from page 176
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 198
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 168

# A / RS 250 – aluminium

## Smoke-tight door assemblies, double-leaf



Approved as	Smoke-tight internal door	Smoke-tight internal door
	<b>A/RS 250</b>	<b>A/RS 250</b> With steel frame
Depth [mm]	50 mm	50 mm
RAM width (min – max) [mm]	1355 – 3000	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	BRM 1705 × 2965
RAM including transom light max. [mm]		BRM 2930 × 3500
Optional additional functions		

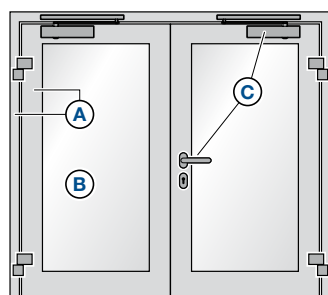
### Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 250

A / RS 250 with steel frame

See page 36



### Door set price =

- Frame / leaf
- + Glazings
- + Door fitting / additional function



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  A/RS 250 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2615	×	2010	3893	3,20	290	377	564
		2135	3915	3,43	295	383	574
		2290	3941	3,72	304	396	593
		2385	3957	3,89	306	399	598
		2510	3979	4,12	313	406	607
		2600	3995	4,29	316	410	617
		2710	4014	4,49	324	422	632
		2885	4045	4,81	329	430	645
		3000	4065	5,02	334	435	654

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

### Larger RAM on request

► State opening sense on order!

\* For an overview of available surface finishes, see page 54

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**22**

# Glazings, door fittings, additional functions

## A / RS 250 – aluminium hollow profiled section door



B	Glazing (standard delivery glass / panel fitted at the factory)		Surcharge €	
	For interior applications	No.	max. glass dimensions	Per m² €
	<i>Standard</i> glazing, laminated safety glass 6 mm	033	2250 × 2333 mm	99
	Glazing, laminated safety glass 8 mm ( <i>standard from RAM height 2710 mm</i> )	525	2600 × 4500 mm	115
	Glazing laminated safety glass 10 mm	527	2600 × 4500 mm	158
	Glazing laminated safety glass 6 mm with matt plastic film	528	2250 × 2333 mm	155
	Glazing single-pane safety glass 8 mm	524	2400 × 4500 mm	178
	Glazing single-pane safety glass 10 mm	526	2400 × 4500 mm	239
	Aluminium panel	527	1250 × 2500 mm	617
	Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	514	1250 × 2500 mm	790

C Door fitting / additional function		Surcharge €	
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	Standard	Aluminium 98
			Stainless steel 137
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC		Aluminium 147
			Stainless steel 216
	• <b>TS 5000 ISM</b> with slide rail • Fitting on opening side (hinge side) • Opening angle 173°	Standard	Silver-coloured 646
			RAL to choose 797
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)		Standard
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock	Anti-panic function double-leaf	729
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock	Anti-panic function double-leaf	560
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf	565
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1	Standard
		RAL to choose	Per hinge 62
		Stainless steel look	Per hinge 86
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel	Per hinge 175
		RAL to choose	Per hinge 207
		Smoke-tight acc. to DIN 18095 / DIN EN 1634-3	
	<b>Retractable bottom seal</b>		
	• For fitting on a smooth, level floor	Double-leaf	Standard
	<b>Delayed retractable bottom seal</b>	Double-leaf	298
	<b>Floor covering transition profile</b>		
	Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor	Double-leaf	72

### Accessories

<b>Glazings and infills</b>	See from page 176
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 198
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 168

# A / RS 350 – aluminium fixed glazing

Smoke-tight glazing – for doors and walls as a transom light, side element or fixed glazing




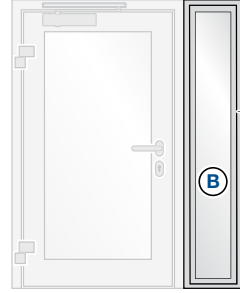

Approved as	<b>Interior smoke-tight glazing</b>
	<b>A / RS 350</b>
Depth [mm]	50 mm
RAM width (max) [mm]	Unlimited
RAM height (max) [mm]	4500
Optional additional functions	

## Detailed product description

Technical description, fitting instructions

A/RS 350

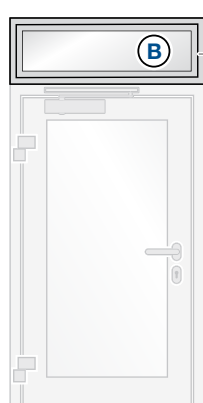
See page 38

		<b>Fixed glazing A / RS 350</b>		Surface coating <sup>2)</sup> Surcharge		
<b>Ordering sizes (RAM) up to width x up to height</b>		<b>Frame price A/RS 350 RAL 9016, E6/EV1</b>		<b>m<sup>2</sup> Glazing area <sup>1)</sup></b>		
				Preferred colour	RAL to choose	Special colour
 Transom light	520 × 510	<b>651</b>	0,50	43	55	83
	635	<b>668</b>	0,50	47	59	89
	760	<b>685</b>	0,50	49	63	97
	885	<b>701</b>	0,50	55	71	107
	1040	<b>723</b>	0,50	61	80	120
	1135	<b>735</b>	0,50	62	81	123
	1260	<b>752</b>	0,50	67	87	131
	1395	<b>771</b>	0,54	71	91	139
	1500	<b>785</b>	0,58	72	92	141
 Side element	645 × 510	<b>668</b>	0,50	47	59	89
	635	<b>685</b>	0,50	50	65	98
	760	<b>701</b>	0,50	56	73	110
	885	<b>720</b>	0,50	62	81	123
	1040	<b>740</b>	0,51	67	87	131
	1135	<b>752</b>	0,56	70	90	137
	1260	<b>770</b>	0,63	72	92	141
	1395	<b>787</b>	0,70	76	99	148
	1500	<b>801</b>	0,76	78	102	152
 Fixed glazing	770 × 510	<b>685</b>	0,50	50	65	98
	635	<b>701</b>	0,50	56	73	110
	760	<b>720</b>	0,50	63	83	124
	885	<b>735</b>	0,52	66	86	130
	1040	<b>756</b>	0,63	71	91	139
	1135	<b>770</b>	0,69	75	98	146
	1260	<b>786</b>	0,77	76	99	148
	1395	<b>805</b>	0,86	80	104	156
	1500	<b>817</b>	0,93	80	104	156
	895 × 510	<b>701</b>	0,50	54	70	105
	635	<b>720</b>	0,50	61	80	120
	760	<b>735</b>	0,52	67	87	131
	885	<b>752</b>	0,62	71	91	139
	1040	<b>773</b>	0,74	75	98	146
	1135	<b>786</b>	0,82	78	102	152
	1260	<b>803</b>	0,92	80	104	156
	1395	<b>820</b>	1,03	81	106	159
	1500	<b>834</b>	1,11	84	108	164

Larger RAM in width and height on request.

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page "Powder coating on fire-rated doors" on page 54



Transom light



Side element



Fixed glazing

#### Door set price =

- A Frame  
 + B Glazing

**A**

#### Fixed glazing A / RS 350

Ordering sizes (RAM) up to width × up to height			Frame price  A/RS 350 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1020	×	510	720	0,50	59	78	115
		635	735	0,50	66	86	130
		760	752	0,60	71	91	139
		885	770	0,72	75	98	146
		1040	789	0,86	79	103	153
		1135	803	0,95	80	104	156
		1260	819	1,06	81	106	159
		1395	838	1,19	85	109	165
		1500	853	1,28	86	112	168
1145	×	510	735	0,50	63	83	124
		635	752	0,56	71	91	139
		760	770	0,69	72	92	141
		885	786	0,82	76	99	148
		1040	807	0,98	81	106	159
		1135	819	1,08	83	107	161
		1260	835	1,21	85	109	165
		1395	855	1,35	89	116	175
		1500	869	1,46	91	120	180
1270	×	510	752	0,50	67	87	131
		635	770	0,62	72	92	141
		760	786	0,77	76	99	148
		885	803	0,91	80	104	156
		1040	824	1,10	84	108	164
		1135	835	1,21	85	109	165
		1260	854	1,35	89	116	175
		1395	871	1,51	91	120	180
		1500	885	1,63	98	126	189

Larger RAM in width and height on request.

- 1) Minimum calculation surface 0.5 m<sup>2</sup>  
 2) For an overview of available surface finishes, see page 54  
 ▶ For additional size ranges, see next page

#### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

22

Vertical / horizontal profile constructions opening outwards

✓ Doors with side element and / or transom light (glazing beads on opposite hinge side)

188

**B**

#### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Per leaf

198

For interior applications	No.	max. glass dimensions	Per m <sup>2</sup> €
Standard glazing, laminated safety glass 6 mm	033	2250 × 2333 mm	99
Glazing, laminated safety glass 8 mm (standard from RAM height 2710 mm)	525	2600 × 4500 mm	115
Glazing laminated safety glass 10 mm	527	2600 × 4500 mm	158
Glazing laminated safety glass 6 mm with matt plastic film	528	2250 × 2333 mm	155
Glazing single-pane safety glass 8 mm	524	2400 × 4500 mm	178
Glazing single-pane safety glass 10 mm	526	2400 × 4500 mm	239
Aluminium panel	527	1250 × 2500 mm	617
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	514	1250 × 2500 mm	790

#### Accessories

Optional extras	See from page 179
Horizontal rails and vertical rails, crossing points	See page 195
Arches, chamfers and recesses	See from page 195
Special glass	See from page 174
Steel frames for version with transom light	See from page 168

# A / RS 350 – aluminium fixed glazing

Smoke-tight glazing – for doors and walls as a transom light, side element or fixed glazing




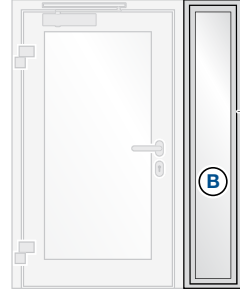

Approved as	Interior smoke-tight glazing
	<b>A / RS 350</b>
Depth [mm]	50 mm
RAM width (max) [mm]	Unlimited
RAM height (max) [mm]	4500
Optional additional functions	

## Detailed product description

Technical description, fitting instructions

A/RS 350

See page 38

		<b>Fixed glazing A / RS 350</b>		Surface coating <sup>2)</sup> Surcharge		
<b>Ordering sizes (RAM) up to width × up to height</b>		<b>Frame price  A/RS 350 RAL 9016, E6/EV1</b>		<b>m<sup>2</sup> Glazing area <sup>1)</sup></b>		
						Preferred colour    RAL to choose    Special colour
 Transom light	1370 × 510	<b>766</b>	0,52	71	91	139
	635	<b>783</b>	0,68	75	98	146
	760	<b>800</b>	0,83	79	103	153
	885	<b>816</b>	0,99	81	106	159
	1040	<b>837</b>	1,19	85	109	165
	1135	<b>850</b>	1,31	87	113	170
	1260	<b>867</b>	1,47	91	120	180
	1395	<b>884</b>	1,64	97	125	187
 Side element	1500 × 510	<b>898</b>	1,77	101	130	194
	635	<b>784</b>	0,57	72	92	141
	760	<b>800</b>	0,75	78	102	152
	885	<b>816</b>	0,92	80	104	156
	1040	<b>833</b>	1,09	84	108	164
	1135	<b>855</b>	1,31	87	113	170
	1260	<b>868</b>	1,44	91	120	180
	1395	<b>884</b>	1,62	97	125	187
 Fixed glazing	1645 × 510	<b>917</b>	1,95	101	130	194
	635	<b>803</b>	0,63	76	99	148
	760	<b>819</b>	0,82	79	103	153
	885	<b>835</b>	1,02	84	108	164
	1040	<b>854</b>	1,21	86	112	168
	1135	<b>873</b>	1,45	91	120	180
	1260	<b>886</b>	1,59	97	125	187
	1395	<b>903</b>	1,79	101	130	194
	1770 × 510	<b>921</b>	2,00	104	134	201
	635	<b>936</b>	2,16	106	139	208
	760	<b>819</b>	0,68	79	103	153
	885	<b>835</b>	0,89	83	107	161
	1040	<b>854</b>	1,10	86	112	168
	1135	<b>870</b>	1,31	90	118	178
	1260	<b>891</b>	1,56	97	125	187
	1395	<b>903</b>	1,72	101	130	194
	1770 × 1260	<b>920</b>	1,93	103	133	200
	1395	<b>939</b>	2,16	106	139	208
	1500	<b>953</b>	2,33	109	142	213

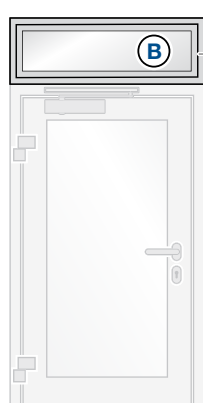
Door set price =

- (A) Frame  
+ (B) Glazing

Larger RAM in width and height on request.

1) Minimum calculation surface 0.5 m<sup>2</sup>

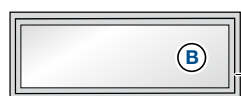
2) For an overview of available surface finishes, see page 54



Transom light



Side element



Fixed glazing

#### Door set price =

- A Frame  
 + B Glazing

**A**

#### Fixed glazing A / RS 350

Ordering sizes (RAM) up to width × up to height			Frame price  A/RS 350 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1895	×	510	<b>835</b>	0,73	80	104	156
		635	<b>854</b>	0,96	84	108	164
		760	<b>870</b>	1,18	89	116	175
		885	<b>886</b>	1,40	91	120	180
		1040	<b>907</b>	1,68	99	129	193
		1135	<b>920</b>	1,85	103	133	200
		1260	<b>938</b>	2,08	105	135	205
		1395	<b>955</b>	2,32	109	142	213
2020	×	510	<b>854</b>	0,78	83	107	161
		635	<b>870</b>	1,02	86	112	168
		760	<b>886</b>	1,26	89	116	175
		885	<b>903</b>	1,50	97	125	187
		1040	<b>923</b>	1,80	102	131	196
		1135	<b>938</b>	1,98	105	135	205
		1260	<b>954</b>	2,22	108	141	212
		1395	<b>974</b>	2,48	115	151	226
2145	×	510	<b>870</b>	0,83	84	108	164
		635	<b>886</b>	1,09	87	113	170
		760	<b>903</b>	1,34	91	120	180
		885	<b>920</b>	1,60	99	129	193
		1040	<b>941</b>	1,92	104	134	201
		1135	<b>954</b>	2,11	107	140	209
		1260	<b>971</b>	2,37	110	144	217
		1395	<b>990</b>	2,64	120	156	235
		1500	<b>1003</b>	2,86	123	158	238

Larger RAM in width and height on request.

► For additional size ranges, see next page

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 54

#### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**22**

Vertical / horizontal profile constructions opening outwards

✓ Doors with side element and / or transom light (glazing beads on opposite hinge side)

**188**

**B**

#### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Per leaf

**198**

For interior applications	No.	max. glass dimensions	Per m <sup>2</sup> €
Standard glazing, laminated safety glass 6 mm	<b>033</b>	2250 × 2333 mm	<b>99</b>
Glazing, laminated safety glass 8 mm (standard from RAM height 2710 mm)	<b>525</b>	2600 × 4500 mm	<b>115</b>
Glazing laminated safety glass 10 mm	<b>527</b>	2600 × 4500 mm	<b>158</b>
Glazing laminated safety glass 6 mm with matt plastic film	<b>528</b>	2250 × 2333 mm	<b>155</b>
Glazing single-pane safety glass 8 mm	<b>524</b>	2400 × 4500 mm	<b>178</b>
Glazing single-pane safety glass 10 mm	<b>526</b>	2400 × 4500 mm	<b>239</b>
Aluminium panel	<b>527</b>	1250 × 2500 mm	<b>617</b>
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	<b>514</b>	1250 × 2500 mm	<b>790</b>

#### Accessories

Optional extras	See from page 179
Horizontal rails and vertical rails, crossing points	See page 195
Special glass	See from page 174
Steel frames for version with transom light	See from page 168

# A / RS 350 – aluminium fixed glazing

Smoke-tight glazing – for doors and walls as a transom light, side element or fixed glazing




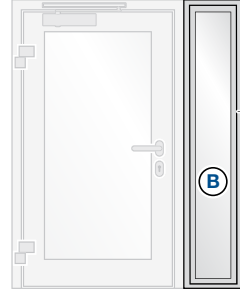

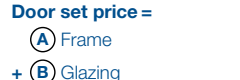
Approved as	Interior smoke-tight glazing
	<b>A / RS 350</b>
Depth [mm]	50 mm
RAM width (max) [mm]	Unlimited
RAM height (max) [mm]	4500
Optional additional functions	

## Detailed product description

Technical description, fitting instructions

A/RS 350

See page 38

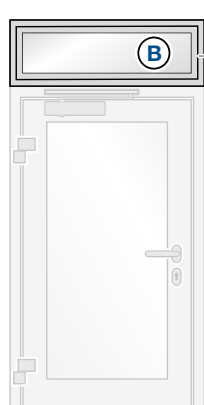
		<b>Fixed glazing A / RS 350</b>		Surface coating <sup>2)</sup> Surcharge		
Ordering sizes (RAM) up to width × up to height		Frame price <b>A/RS 350</b> RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>1)</sup>	Preferred colour	RAL to choose	Special colour
 Transom light	2270 × 510	<b>886</b>	0,88	86	112	168
	635	<b>903</b>	1,16	89	116	175
	760	<b>920</b>	1,43	97	125	187
	885	<b>938</b>	1,70	102	131	196
	1040	<b>958</b>	2,03	106	139	208
	1135	<b>971</b>	2,24	109	142	213
	1260	<b>989</b>	2,51	116	152	227
	1395	<b>1005</b>	2,80	123	158	238
 Side element	1500	<b>1020</b>	3,03	126	164	244
	2395 × 510	<b>903</b>	0,94	87	113	170
	635	<b>920</b>	1,22	94	124	186
	760	<b>938</b>	1,51	99	129	193
	885	<b>954</b>	1,80	104	134	201
	1040	<b>976</b>	2,15	108	141	212
	1135	<b>989</b>	2,37	112	146	219
	1260	<b>1004</b>	2,66	121	157	236
 Fixed glazing	1395	<b>1023</b>	2,96	126	164	244
	1500	<b>1036</b>	3,21	130	168	253
	2500 × 510	<b>918</b>	0,98	89	116	175
	635	<b>935</b>	1,28	97	125	187
	760	<b>951</b>	1,58	102	131	196
	885	<b>967</b>	1,88	106	139	208
	1040	<b>990</b>	2,25	110	144	217
	1135	<b>1002</b>	2,48	116	152	227
 Door set price = A Frame + B Glazing	1260	<b>1019</b>	2,78	124	161	241
	1395	<b>1036</b>	3,10	129	167	251
	1500	<b>1051</b>	3,35	132	171	258
	2615 × 510	<b>934</b>	1,03	90	118	178
	635	<b>949</b>	1,34	99	129	193
	760	<b>966</b>	1,65	103	133	200
	885	<b>982</b>	1,97	107	140	209
	1040	<b>1004</b>	2,36	116	152	227
	1135	<b>1018</b>	2,60	121	157	236
	1260	<b>1034</b>	2,91	126	164	244
	1395	<b>1052</b>	3,25	131	170	256
	1500	<b>1066</b>	3,51	137	178	269

Larger RAM in width and height on request.

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 54

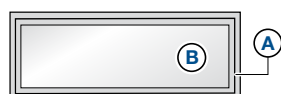




Transom light



Side element



Fixed glazing

**A**

### Fixed glazing A / RS 350

Ordering sizes (RAM) up to width × up to height			Frame price  A/RS 350 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
2730	×	510	<b>947</b>	1,07	94	124	186
		635	<b>965</b>	1,40	101	130	194
		760	<b>981</b>	1,73	105	135	205
		885	<b>1000</b>	2,06	109	142	213
		1040	<b>1020</b>	2,47	121	157	236
		1135	<b>1032</b>	2,71	124	161	241
		1260	<b>1050</b>	3,04	129	167	251
		1395	<b>1067</b>	3,40	135	177	266
		1500	<b>1083</b>	3,67	140	183	273
2845	×	510	<b>964</b>	1,12	98	126	189
		635	<b>980</b>	1,46	103	133	200
		760	<b>999</b>	1,80	106	139	208
		885	<b>1014</b>	2,15	112	146	219
		1040	<b>1035</b>	2,57	123	158	238
		1135	<b>1049</b>	2,83	127	166	250
		1260	<b>1065</b>	3,18	131	170	256
		1395	<b>1084</b>	3,55	139	180	270
		1500	<b>1096</b>	3,83	143	187	279
3000	×	510	<b>984</b>	1,18	99	129	193
		635	<b>1002</b>	1,54	105	135	205
		760	<b>1019</b>	1,91	108	141	212
		885	<b>1035</b>	2,27	116	152	227
		1040	<b>1055</b>	2,72	126	164	244
		1135	<b>1068</b>	2,99	130	168	253
		1260	<b>1086</b>	3,36	137	178	269
		1395	<b>1104</b>	3,75	142	185	276
		1500	<b>1117</b>	4,05	148	193	291

### Door set price =

- A** Frame  
 + **B** Glazing

### Larger RAM in width and height on request.

► For additional size ranges, see next page

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 54

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**22**

Vertical/horizontal profile constructions opening outwards

✓ Doors with side element and /or transom light (glazing beads on opposite hinge side)

**188**

**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Per leaf

**198**

For interior applications	No.	max. glass dimensions	Per m <sup>2</sup> €
Standard glazing, laminated safety glass 6 mm	<b>033</b>	2250 × 2333 mm	<b>99</b>
Glazing, laminated safety glass 8 mm (standard from RAM height 2710 mm)	<b>525</b>	2600 × 4500 mm	<b>115</b>
Glazing laminated safety glass 10 mm	<b>527</b>	2600 × 4500 mm	<b>158</b>
Glazing laminated safety glass 6 mm with matt plastic film	<b>528</b>	2250 × 2333 mm	<b>155</b>
Glazing single-pane safety glass 8 mm	<b>524</b>	2400 × 4500 mm	<b>178</b>
Glazing single-pane safety glass 10 mm	<b>526</b>	2400 × 4500 mm	<b>239</b>
Aluminium panel	<b>527</b>	1250 × 2500 mm	<b>617</b>
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	<b>514</b>	1250 × 2500 mm	<b>790</b>

### Accessories

Optional extras	See from page 179
Horizontal rails and vertical rails, crossing points	See page 195
Special glass	See from page 174
Steel frames for version with transom light	See from page 168

Good reasons to try Hörmann  
steel and aluminium tubular frame  
construction project doors



Maximum clear passage width

**Steel profile frame**

\* compared to door version with fascia frame

**HÖRMANN**

# Good reasons to try Hörmann steel loft doors



Industrial style for living areas and workspaces

**Large glazings with  
high-quality steel profiles**

**HÖRMANN**

# A / RS 100 – aluminium hollow profiled section door

Smoke-tight door assemblies, single-leaf with thermal insulation



Approved as	Internal door	External door	Internal door	Internal door
	<b>A/RS 100</b>	<b>A/RS 100</b>	<b>A/RS 100</b> With frame without face	<b>A/RS 100</b> With steel frame
Depth [mm]	80 mm			
RAM width (min – max) [mm]	605 – 1300	605 – 1500	788 – 1415	BRM 535 – 1430
RAM height (min – max) [mm]	1740 – 3000	1740 – 3000	1710 – 2500	BRM 1705 – 2965
RAM including transom light max. [mm]			1415 x 3000	BRM 1430 – 3500
Optional additional functions	RC 2 RC 3	RC 2 RC 3	RC 2 RC 3	RC 2 RC 3

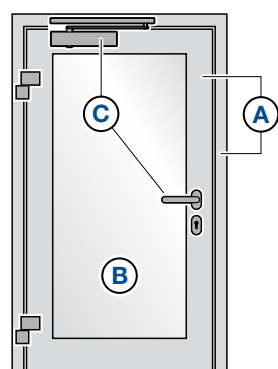
## Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 100

A / RS 100 with steel frame

See page 40



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 1 x retractable bottom seal
- 1 x mortice lock BKS 1828
- 2 x 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54

A			Frame / leaf				
Ordering sizes (RAM) up to width x up to height			Frame / door leaf price  A/RS 100 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1020	x	2010	2671	1,30	146	189	284
		2135	2713	1,39	150	194	292
		2290	2764	1,51	153	199	298
		2385	2797	1,58	157	205	306
		2510	2838	1,67	161	209	314
		2600	2867	1,74	164	212	318
		2710	2904	1,82	165	215	322
		2885	2961	1,95	168	219	328
	x	3000	3000	2,04	170	221	332
		2010	2713	1,52	152	198	297
		2135	2754	1,63	156	203	305
		2290	2806	1,76	158	206	308
		2385	2838	1,84	162	211	316
		2510	2880	1,95	165	215	322
		2600	2910	2,03	167	217	325
		2710	2947	2,13	169	220	330
1270	x	2885	3005	2,28	174	226	341
		3000	3043	2,38	180	234	349
		2010	2754	1,73	157	205	306
		2135	2797	1,86	161	209	314
		2290	2846	2,01	165	215	322
		2385	2880	2,11	167	217	325
		2510	2922	2,23	169	220	330
		2600	2951	2,32	171	222	334
		2710	2988	2,43	174	226	341
		2885	3045	2,61	182	236	354
		3000	3084	2,72	184	238	358

► For additional size ranges, see next page

## Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m 26

## Construction project door OT 80

Construction project door OT 80 (door without smoke-tight properties, therefore omission of retractable bottom seal)

Price reduction -175

## Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

1192

## A / RS 100 outside application



Threshold with thermal break for water tightness under heavy rain (standard for outside application)

-63

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

436

Already suitable for outside application with standard glazing (insulated glass)

# Glazings, door fittings, additional functions

## A / RS 100 – aluminium hollow profiled section door, insulated



Smoke protection

Tubular frame parts  
Aluminium

**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Per leaf 198

#### For interior applications

No. max. glass dimensions Per m<sup>2</sup> €

**Insulated glazing 2 x laminated safety glass 6 mm ( $U_D = 3.0$ ) standard**

226 1500 x 2500 mm 305

Insulated glass 2 x laminated safety glass 6 mm ( $U_D = 1.1$ )

288 1500 x 2500 mm 323

Insulated glass 2 x laminated safety glass 8 mm ( $U_D = 1.1$ )

091 2600 x 4500 mm 376

Insulated glass 2 x single-pane safety glass 8 mm ( $U_D = 1.1$ )

095 2500 x 5000 mm 660

Aluminium panel

517 1250 x 2500 mm 467

Aluminium glass panel (2 x aluminium sheet, insulated glass on the inside)

511 1250 x 2500 mm 766

Aluminium glass panel (2 x aluminium sheet, acoustic insulation glass on the inside)

509 1250 x 2500 mm 1044

**C**

### Door fitting / additional function

Surcharge €



- Lever handle set D116, oval rose escutcheon PC

Standard Aluminium 98

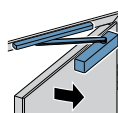
Stainless steel 137



- Lever / knob handle set D116 with knob K117, oval rose escutcheon PC

Aluminium 147

Stainless steel 216



- HDC 35 EN 3–5 with slide rail
- Fitting on opening side (hinge side)
- RAM width min. 605 mm, max. 1270 mm

Standard Silver-coloured 213

RAL to choose 276

- TS 5000 EN 2–6 with slide rail
- Fitting on opening side (hinge side)
- RAM width min. 605 mm, max. 1500 mm

Standard Silver-coloured 308

RAL to choose 360

#### Notice:

An overhead door closer is not necessary for OT80 doors



- Mortice lock BKS 1828

Standard



- Mortice lock BKS 1820 for change-over function B

Anti-panic function, single-leaf / half anti-panic, double-leaf 298

- Mortice lock BKS 1824 for passage function D

Anti-panic function, single-leaf / half anti-panic, double-leaf 227

- Mortice lock BKS 1826 for lever / knob function E

Anti-panic function, single-leaf / half anti-panic, double-leaf 144



- Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable

⚠ Please take into consideration 2 hinges for the leaf!

EV1 Standard

RAL to choose Per hinge 62

Stainless steel look Per hinge 86



- Hörmann guide roller, 2-way adjustable

⚠ Please take into consideration 2 hinges for the leaf!

Stainless steel Per hinge 175

RAL to choose Per hinge 207

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

#### Retractable bottom seal

- For fitting on a smooth, level floor
- ⚠ Limited leak tightness of doors in outside application

Single-leaf Standard



#### Delayed retractable bottom seal

- Suitable with different pressure ratios (loading houses)
- For fitting on a smooth, level floor
- ⚠ Limited leak tightness of doors in outside application

Single-leaf For A/RS 150

Single-leaf For OT80 325



#### Floor covering transition profile

Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor

Single-leaf 36

### Accessories

#### Glazings and infills

See from page 176

#### Horizontal rails / vertical rails

See page 195

#### Fittings

Lever handle sets, profile cylinders, locks and electric extras

See from page 182

#### Door closers, hold-open devices and operators

See from page 196

#### Security features RC 2 / RC 3 acc. to DIN EN 1627

See from page 180

#### Steel frames for tubular frame parts

See from page 168

# A / RS 100 – aluminium hollow profiled section door

Smoke-tight door assemblies, single-leaf with thermal insulation



Approved as	Internal door	External door	Internal door	Internal door
	<b>A/RS 100</b>	<b>A/RS 100</b>	<b>A/RS 100</b> With frame without face	<b>A/RS 100</b> With steel frame
Depth [mm]	80 mm			
RAM width (min – max) [mm]	605 – 1300	605 – 1500	788 – 1415	BRM 535 – 1430
RAM height (min – max) [mm]	1740 – 3000	1740 – 3000	1710 – 2500	BRM 1705 – 2965
RAM including transom light max. [mm]			1415 x 3000	BRM 1430 – 3500
Optional additional functions	RC 2 RC 3	RC 2 RC 3	RC 2 RC 3	RC 2 RC 3

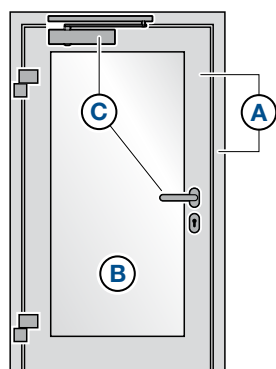
## Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 100

A / RS 100 with steel frame

See page 40



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 x retractable bottom seal
- 1 x mortice lock BKS 1828
- 2 x 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

A

Frame / leaf									
Ordering sizes (RAM) up to width x up to height			Frame / door leaf price		m <sup>2</sup> Glazing area	Surface coating * Surcharge			
			A/RS 100 RAL 9016, E6/EV1			Preferred colour	RAL to choose	Special colour	
1370	x	2010	2787		1,91	157	205	306	
		2135	2829		2,05	161	209	314	
		2290	2881		2,22	165	215	322	
		2385	2913		2,32	166	216	324	
		2510	2954		2,46	169	220	330	
		2600	2984		2,56	171	222	334	
		2710	3022		2,68	174	226	341	
		2885	3080		2,87	183	237	355	
		3000	3118		3,00	185	239	359	
1500	x	2010	2830		2,13	162	211	316	
		2135	2873		2,29	165	215	322	
		2290	2924		2,48	169	220	330	
		2385	2955		2,59	171	222	334	
		2510	2997		2,75	174	226	341	
		2600	3027		2,86	180	234	349	
		2710	3063		2,99	183	237	355	
		2885	3122		3,21	187	242	364	
		3000	3161		3,35	189	247	370	

► State opening sense on order!

\* For an overview of available surface finishes, see page 54

## Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m **26**

## Construction project door OT 80

Construction project door OT 80 (door without smoke-tight properties, therefore omission of retractable bottom seal)

Price reduction **-175**

## Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

**1192**

## A / RS 100 outside application



Threshold with thermal break for water tightness under heavy rain (*standard* for outside application)

**-63**

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

**436**

Already suitable for outside application with standard glazing (insulated glass)

# Glazings, door fittings, additional functions

## A / RS 100 – aluminium hollow profiled section door, insulated



Smoke protection

Tubular frame parts  
Aluminium

**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Per leaf 198

#### For interior applications

No. max. glass dimensions Per m<sup>2</sup> €

**Insulated glazing 2 x laminated safety glass 6 mm ( $U_D = 3.0$ ) standard**

226 1500 x 2500 mm 305

Insulated glass 2 x laminated safety glass 6 mm ( $U_D = 1.1$ )

288 1500 x 2500 mm 323

Insulated glass 2 x laminated safety glass 8 mm ( $U_D = 1.1$ )

091 2600 x 4500 mm 376

Insulated glass 2 x single-pane safety glass 8 mm ( $U_D = 1.1$ )

095 2500 x 5000 mm 660

Aluminium panel

517 1250 x 2500 mm 467

Aluminium glass panel (2 x aluminium sheet, insulated glass on the inside)

511 1250 x 2500 mm 766

Aluminium glass panel (2 x aluminium sheet, acoustic insulation glass on the inside)

509 1250 x 2500 mm 1044

**C**

### Door fitting / additional function

Surcharge €



- Lever handle set D116, oval rose escutcheon PC

Standard Aluminium 98

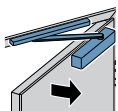
Stainless steel 137



- Lever / knob handle set D116 with knob K117, oval rose escutcheon PC

Aluminium 147

Stainless steel 216



- HDC 35 EN 3–5 with slide rail
- Fitting on opening side (hinge side)
- RAM width min. 605 mm, max. 1270 mm

Standard Silver-coloured 213

RAL to choose 276

- TS 5000 EN 2–6 with slide rail
- Fitting on opening side (hinge side)
- RAM width min. 605 mm, max. 1500 mm

Standard Silver-coloured 308

RAL to choose 360

#### Notice:

An overhead door closer is not necessary for OT80 doors



- Mortice lock BKS 1828

Standard



- Mortice lock BKS 1820 for change-over function B

Anti-panic function, single-leaf / half anti-panic, double-leaf 298

- Mortice lock BKS 1824 for passage function D

Anti-panic function, single-leaf / half anti-panic, double-leaf 227

- Mortice lock BKS 1826 for lever / knob function E

Anti-panic function, single-leaf / half anti-panic, double-leaf 144



- Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable

EV1 Standard

- ⚠ Please take into consideration 2 hinges for the leaf!

RAL to choose Per hinge 62

Stainless steel look Per hinge 86



- Hörmann guide roller, 2-way adjustable

Stainless steel Per hinge 175

- ⚠ Please take into consideration 2 hinges for the leaf!

RAL to choose Per hinge 207

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

#### Retractable bottom seal

- For fitting on a smooth, level floor
- ⚠ Limited leak tightness of doors in outside application

Single-leaf Standard



#### Delayed retractable bottom seal

- Suitable with different pressure ratios (loading houses)
- For fitting on a smooth, level floor
- ⚠ Limited leak tightness of doors in outside application

Single-leaf For A/RS 150

Single-leaf For OT80 325



#### Floor covering transition profile

Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor

Single-leaf 36

### Accessories

#### Glazings and infills

See from page 176

#### Horizontal rails / vertical rails

See page 195

#### Fittings

Lever handle sets, profile cylinders, locks and electric extras

See from page 182

#### Door closers, hold-open devices and operators

See from page 196

#### Security features RC 2 / RC 3 acc. to DIN EN 1627

See from page 180

#### Steel frames for tubular frame parts





See from page 168



# A / RS 200 – aluminium hollow profiled section door

Smoke-tight door assemblies, double-leaf with thermal insulation



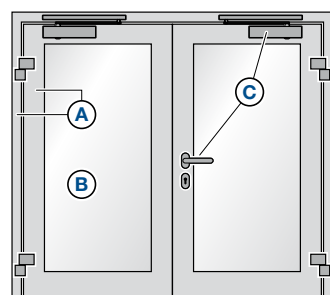
Approved as	Internal door	External door	Internal door	Internal door
	A/RS 200	A/RS 200	A/RS 200 With frame without face	A/RS 200 With steel frame
Depth [mm]	80 mm			
RAM width (min – max) [mm]	1355 – 3000	1400 × 2600	1538 × 2810	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	1740 × 2500	1710 × 2500	BRM 1705 × 2965
RAM including transom light max. [mm]			2810 × 3000	BRM 2930 × 3500
Optional additional functions				

## Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 200

See page 40



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  A/RS 200 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1500	×	2010	4650	1,86	242	316	475
		2135	4701	2,00	247	321	480
		2290	4761	2,16	253	328	493
		2385	4799	2,26	255	332	498
		2510	4849	2,40	260	340	509
		2600	4885	2,49	262	342	512
		2710	4928	2,61	269	348	522
		2885	4997	2,80	273	355	533
		3000	5043	2,92	275	358	536
1645	×	2010	4707	2,11	248	323	485
		2135	4758	2,27	253	328	493
		2290	4819	2,45	260	340	509
		2385	4857	2,57	262	342	512
		2510	4906	2,72	269	348	522
		2600	4943	2,83	271	350	527
		2710	4985	2,96	274	356	534
		2885	5055	3,18	279	364	548
		3000	5099	3,32	284	369	552
1770	×	2010	4758	2,33	254	329	495
		2135	4807	2,50	258	334	504
		2290	4868	2,71	268	346	518
		2385	4906	2,83	270	349	526
		2510	4956	3,00	273	355	533
		2600	4990	3,12	276	360	541
		2710	5034	3,27	279	364	548
		2885	5103	3,50	287	372	560
		3000	5150	3,66	291	378	567

► For additional size ranges, see next page

## Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

26

## Construction project door OT 80

Construction project door OT 80 (door without smoke-tight properties, therefore omission of retractable bottom seal)

Price reduction

-350

## Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

2486

## A / RS 200 outside application



Threshold with thermal break for water tightness under heavy rain (*standard* for outside application)

-127

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

436

Already suitable for outside application with standard glazing (insulated glass)



# Glazings, door fittings, additional functions

## A / RS 200 – aluminium hollow profiled section door



B

Glazing (standard delivery glass / panel separate)			Surcharge €
Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications	No.	max. glass dimensions	Per m² €
Insulated glazing 2 × laminated safety glass 6 mm (U <sub>D</sub> = 3.0) <i>standard</i>	226	1500 × 2500 mm	305
Insulated glass 2 × laminated safety glass 6 mm (U <sub>D</sub> = 1.1)	288	1500 × 2500 mm	323
Insulated glass 2 × laminated safety glass 8 mm (U <sub>D</sub> = 1.1)	091	2600 × 4500 mm	376
Insulated glass 2 × single-pane safety glass 8 mm (U <sub>D</sub> = 1.1)	095	2500 × 5000 mm	660
Aluminium panel	517	1250 × 2500 mm	467
Aluminium glass panel (2 × aluminium sheet, insulated glass on the inside)	511	1250 × 2500 mm	766
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	509	1250 × 2500 mm	1044

Door fitting / additional function		Surcharge €	
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	Standard	Aluminium 98
			Stainless steel 137
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC		Aluminium 147
			Stainless steel 216
	• <b>TS 5000 ISM</b> with slide rail • Fitting on opening side (hinge side) • Opening angle 173°  <b>Notice:</b> An overhead door closer is not necessary for OT80 doors	Standard	Silver-coloured 646
			RAL to choose 797
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)		Standard
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock	Anti-panic function double-leaf	729
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock	Anti-panic function double-leaf	560
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf	565
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1	Standard
		RAL to choose	Per hinge 62
		Stainless steel look	Per hinge 86
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel	Per hinge 175
		RAL to choose	Per hinge 207

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

<b>Retractable bottom seal</b>				
• For fitting on a smooth, level floor ⚠ Limited leak tightness of doors in outside application		Double-leaf		<i>Standard</i>
	<b>Delayed retractable bottom seal</b> • Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor ⚠ Limited leak tightness of doors in outside application	Double-leaf	For A/RS	<b>298</b>
		Double-leaf	For OT80	<b>650</b>
	<b>Floor covering transition profile</b> Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor	Double-leaf		<b>72</b>










### Accessories

<b>Glazings and infills</b>	See from page 176
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 198
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 168

# A / RS 200 – aluminium hollow profiled section door

Smoke-tight door assemblies, double-leaf with thermal insulation



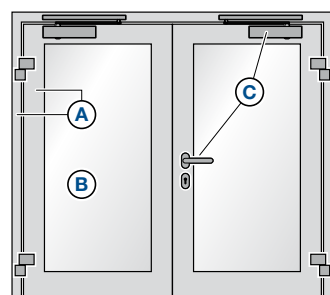
Approved as	Internal door	External door	Internal door	Internal door
	A/RS 200	A/RS 200	A/RS 200 With frame without face	A/RS 200 With steel frame
Depth [mm]	80 mm			
RAM width (min – max) [mm]	1355 – 3000	1400 × 2600	1538 × 2810	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	1740 × 2500	1710 × 2500	BRM 1705 × 2965
RAM including transom light max. [mm]			2810 × 3000	BRM 2930 × 3500
Optional additional functions	 	  	 	 

## Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 200

See page 40



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  A/RS 200 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1895	×	2010	4807	2,55	260	340	509
		2135	4857	2,73	268	346	518
		2290	4918	2,96	272	353	530
		2385	4956	3,10	273	355	533
		2510	5005	3,28	277	361	542
		2600	5040	3,41	281	367	551
		2710	5085	3,57	287	372	560
		2885	5153	3,83	292	379	568
		3000	5199	4,00	296	384	578
2020	×	2010	4857	2,77	268	346	518
		2135	4906	2,96	271	350	527
		2290	4956	3,21	275	358	536
		2385	5005	3,36	277	361	542
		2510	5055	3,56	284	369	552
		2600	5091	3,70	287	372	560
		2710	5135	3,88	292	379	568
		2885	5202	4,16	298	388	583
		3000	5249	4,34	305	398	597
2145	×	2010	4906	2,98	271	350	527
		2135	4956	3,20	275	358	536
		2290	5016	3,46	280	366	549
		2385	5055	3,63	286	371	556
		2510	5103	3,84	291	378	567
		2600	5139	3,99	294	382	573
		2710	5182	4,18	298	388	583
		2885	5252	4,48	306	399	598
		3000	5298	4,68	312	405	606

► For additional size ranges, see next page

## Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

26

## Construction project door OT 80

Construction project door OT 80 (door without smoke-tight properties, therefore omission of retractable bottom seal)

Price reduction

-350

## Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

2486

## A / RS 200 outside application



Threshold with thermal break for water tightness under heavy rain (*standard* for outside application)

-127

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

436

Already suitable for outside application with standard glazing (insulated glass)

# Glazings, door fittings, additional functions

## A / RS 200 – aluminium hollow profiled section door



B

Glazing (standard delivery glass / panel separate)			Surcharge €
Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications	No.	max. glass dimensions	Per m² €
Insulated glazing 2 × laminated safety glass 6 mm (U <sub>D</sub> = 3.0) <i>standard</i>	226	1500 × 2500 mm	305
Insulated glass 2 × laminated safety glass 6 mm (U <sub>D</sub> = 1.1)	288	1500 × 2500 mm	323
Insulated glass 2 × laminated safety glass 8 mm (U <sub>D</sub> = 1.1)	091	2600 × 4500 mm	376
Insulated glass 2 × single-pane safety glass 8 mm (U <sub>D</sub> = 1.1)	095	2500 × 5000 mm	660
Aluminium panel	517	1250 × 2500 mm	467
Aluminium glass panel (2 × aluminium sheet, insulated glass on the inside)	511	1250 × 2500 mm	766
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	509	1250 × 2500 mm	1044

C Door fitting / additional function		Surcharge €	
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	Standard	Aluminium 98
			Stainless steel 137
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC		Aluminium 147
			Stainless steel 216
	• <b>TS 5000 ISM</b> with slide rail • Fitting on opening side (hinge side) • Opening angle 173°	Standard	Silver-coloured 646
			RAL to choose 797
<b>Notice:</b> An overhead door closer is not necessary for OT80 doors			
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)		Standard
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock	Anti-panic function double-leaf	729
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock	Anti-panic function double-leaf	560
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf	565
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1	Standard
		RAL to choose	Per hinge 62
		Stainless steel look	Per hinge 86
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel	Per hinge 175
		RAL to choose	Per hinge 207

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

	<b>Retractable bottom seal</b> • For fitting on a smooth, level floor ⚠ Limited leak tightness of doors in outside application	Double-leaf		Standard
	<b>Delayed retractable bottom seal</b> • Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor ⚠ Limited leak tightness of doors in outside application	Double-leaf	For A/RS	<b>298</b>
		Double-leaf	For OT80	<b>650</b>
	<b>Floor covering transition profile</b> Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor	Double-leaf		<b>72</b>










### Accessories

<b>Glazings and infills</b>	See from page 176
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 198
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 168

# A / RS 200 – aluminium hollow profiled section door

Smoke-tight door assemblies, double-leaf with thermal insulation



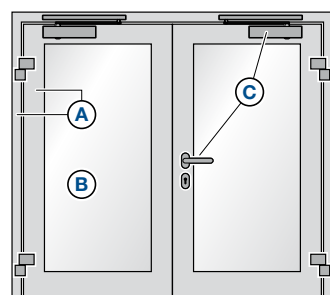
Approved as	Internal door	External door	Internal door	Internal door
	A/RS 200	A/RS 200	A/RS 200 With frame without face	A/RS 200 With steel frame
Depth [mm]	80 mm			
RAM width (min – max) [mm]	1355 – 3000	1400 × 2600	1538 × 2810	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	1740 × 2500	1710 × 2500	BRM 1705 × 2965
RAM including transom light max. [mm]			2810 × 3000	BRM 2930 × 3500
Optional additional functions	 	  	 	 

## Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 200

See page 40



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  A/RS 200 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2270	×	2010	4956	3,20	274	356	534
		2135	5005	3,43	279	364	548
		2290	5066	3,72	287	372	560
		2385	5103	3,89	291	378	567
		2510	5153	4,12	296	384	578
		2600	5189	4,29	299	389	585
		2710	5232	4,49	306	399	598
		2885	5303	4,81	312	405	606
		3000	5347	5,02	316	410	617
2395	×	2010	5005	3,42	279	364	548
		2135	5055	3,66	286	371	556
		2290	5116	3,97	292	379	568
		2385	5153	4,15	296	384	578
		2510	5202	4,40	304	396	593
		2600	5238	4,58	306	399	598
		2710	5283	4,79	312	405	606
		2885	5351	5,14	318	413	620
		3000	5397	5,36	324	422	632
2500	×	2010	5046	3,60	284	369	552
		2135	5095	3,86	290	377	564
		2290	5157	4,18	296	384	578
		2385	5196	4,38	303	394	590
		2510	5245	4,63	307	400	600
		2600	5281	4,82	312	405	606
		2710	5323	5,05	316	410	617
		2885	5393	5,41	325	423	634
		3000	5439	5,65	328	427	641

► For additional size ranges, see next page

## Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

26

## Construction project door OT 80

Construction project door OT 80 (door without smoke-tight properties, therefore omission of retractable bottom seal)

Price reduction

-350

## Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

2486

## A / RS 200 outside application



Threshold with thermal break for water tightness under heavy rain (standard for outside application)

-127

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

436

Already suitable for outside application with standard glazing (insulated glass)

# Glazings, door fittings, additional functions

## A / RS 200 – aluminium hollow profiled section door



B

Glazing (standard delivery glass / panel separate)			Surcharge €
Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf 198
For interior applications	No.	max. glass dimensions	Per m² €
Insulated glazing 2 × laminated safety glass 6 mm (U <sub>D</sub> = 3.0) <i>standard</i>	226	1500 × 2500 mm	305
Insulated glass 2 × laminated safety glass 6 mm (U <sub>D</sub> = 1.1)	288	1500 × 2500 mm	323
Insulated glass 2 × laminated safety glass 8 mm (U <sub>D</sub> = 1.1)	091	2600 × 4500 mm	376
Insulated glass 2 × single-pane safety glass 8 mm (U <sub>D</sub> = 1.1)	095	2500 × 5000 mm	660
Aluminium panel	517	1250 × 2500 mm	467
Aluminium glass panel (2 × aluminium sheet, insulated glass on the inside)	511	1250 × 2500 mm	766
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	509	1250 × 2500 mm	1044

C Door fitting / additional function		Surcharge €	
	<ul style="list-style-type: none"><li>Lever handle set D116, oval rose escutcheon PC</li></ul>	Standard	Aluminium 98
			Stainless steel 137
	<ul style="list-style-type: none"><li>Lever / knob handle set D116 with knob K117, oval rose escutcheon PC</li></ul>		Aluminium 147
			Stainless steel 216
	<ul style="list-style-type: none"><li>TS 5000 ISM with slide rail</li><li>Fitting on opening side (hinge side)</li><li>Opening angle 173°</li></ul>	Standard	Silver-coloured 646
			RAL to choose 797
<b>Notice:</b> An overhead door closer is not necessary for OT80 doors			
	<ul style="list-style-type: none"><li>Mortice lock BKS 1828 including espagnolette lock (fixed leaf)</li></ul>	Standard	
	<ul style="list-style-type: none"><li>Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock</li><li>Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock</li><li>Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	729
		Anti-panic function double-leaf	560
		Anti-panic function double-leaf	565
	<ul style="list-style-type: none"><li>Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable</li><li>⚠ Please take into consideration 2 hinges for the leaf!</li></ul>	EV1	Standard
		RAL to choose	Per hinge 62
		Stainless steel look	Per hinge 86
	<ul style="list-style-type: none"><li>Hörmann guide roller, 2-way adjustable</li><li>⚠ Please take into consideration 2 hinges for the leaf!</li></ul>	Stainless steel	Per hinge 175
		RAL to choose	Per hinge 207

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

	<b>Retractable bottom seal</b> <ul style="list-style-type: none"> <li>For fitting on a smooth, level floor</li> <li>⚠ Limited leak tightness of doors in outside application</li> </ul>	Double-leaf	Standard	
	<b>Delayed retractable bottom seal</b> <ul style="list-style-type: none"> <li>Suitable with different pressure ratios (loading houses)</li> <li>For fitting on a smooth, level floor</li> <li>⚠ Limited leak tightness of doors in outside application</li> </ul>	Double-leaf	For A/RS	298
			For OT80	650
	<b>Floor covering transition profile</b> Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor	Double-leaf	72	

### Accessories

<b>Glazings and infills</b>	See from page 176
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 198
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 168

# A / RS 200 – aluminium hollow profiled section door

Smoke-tight door assemblies, double-leaf with thermal insulation



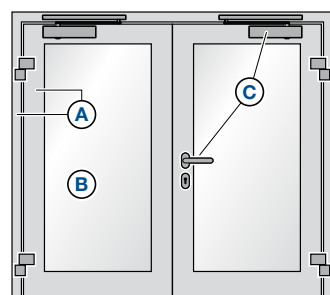
Approved as	Internal door	External door	Internal door	Internal door
	A/RS 200	A/RS 200	A/RS 200 With frame without face	A/RS 200 With steel frame
Depth [mm]	80 mm			
RAM width (min – max) [mm]	1355 – 3000	1400 × 2600	1538 × 2810	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	1740 × 2500	1710 × 2500	BRM 1705 × 2965
RAM including transom light max. [mm]			2810 × 3000	BRM 2930 × 3500
Optional additional functions	RC 2	RC 2	RC 2	RC 2

## Detailed product description

Technical description, fitting instructions, fast-track programme

A/RS 200

See page 40



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  A/RS 200 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2615	×	2010	<b>5092</b>	3,80	290	377	564
		2135	<b>5141</b>	4,07	295	383	574
		2290	<b>5202</b>	4,41	304	396	593
		2385	<b>5239</b>	4,62	306	399	598
		2510	<b>5290</b>	4,89	313	406	607
		2600	<b>5325</b>	5,09	316	410	617
		2710	<b>5369</b>	5,33	324	422	632
		2885	<b>5439</b>	5,71	329	430	645
2730	×	3000	<b>5484</b>	5,96	334	435	654
		2010	<b>5138</b>	4,00	292	379	568
		2135	<b>5187</b>	4,29	299	389	585
		2290	<b>5249</b>	4,64	307	400	600
		2385	<b>5286</b>	4,86	312	405	606
		2510	<b>5336</b>	5,15	316	410	617
		2600	<b>5370</b>	5,36	321	415	623
		2710	<b>5415</b>	5,61	328	427	641
2845	×	2885	<b>5484</b>	6,01	334	435	654
		3000	<b>5529</b>	6,28	341	442	664
		2010	<b>5182</b>	4,20	298	388	583
		2135	<b>5232</b>	4,50	306	399	598
		2290	<b>5293</b>	4,88	313	406	607
		2385	<b>5331</b>	5,11	316	410	617
		2510	<b>5380</b>	5,41	324	422	632
		2600	<b>5417</b>	5,62	328	427	641
		2710	<b>5460</b>	5,89	332	432	648
		2885	<b>5529</b>	6,31	341	442	664
		3000	<b>5574</b>	6,59	347	452	679

► For additional size ranges, see next page

## Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**26**

## Construction project door OT 80

Construction project door OT 80 (door without smoke-tight properties, therefore omission of retractable bottom seal)

Price reduction

**–350**

## Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

**2486**

## A / RS 200 outside application



Threshold with thermal break for water tightness under heavy rain (*standard* for outside application)

**–127**

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

**436**

Already suitable for outside application with standard glazing (insulated glass)





# Glazings, door fittings, additional functions

## A / RS 200 – aluminium hollow profiled section door







<b>B Glazing</b> (standard delivery glass / panel separate)				<b>Surcharge €</b>
Fitting of the glass or panel at the factory (observe the order information on page 56!)			Per leaf	<b>198</b>
<b>For interior applications</b>		<b>No.</b>	<b>max. glass dimensions</b>	<b>Per m² €</b>
<b>Insulated glazing 2 × laminated safety glass 6 mm (<math>U_D = 3.0</math>)</b> <i>standard</i>		<b>226</b>	1500 × 2500 mm	<b>305</b>
Insulated glass 2 × laminated safety glass 6 mm ( $U_D = 1.1$ )		<b>288</b>	1500 × 2500 mm	<b>323</b>
Insulated glass 2 × laminated safety glass 8 mm ( $U_D = 1.1$ )		<b>091</b>	2600 × 4500 mm	<b>376</b>
Insulated glass 2 × single-pane safety glass 8 mm ( $U_D = 1.1$ )		<b>095</b>	2500 × 5000 mm	<b>660</b>
Aluminium panel		<b>517</b>	1250 × 2500 mm	<b>467</b>
Aluminium glass panel (2 × aluminium sheet, insulated glass on the inside)		<b>511</b>	1250 × 2500 mm	<b>766</b>
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)		<b>509</b>	1250 × 2500 mm	<b>1044</b>

<b>C Door fitting / additional function</b>				<b>Surcharge €</b>
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	<i>Standard</i>	Aluminium	<b>98</b>
			Stainless steel	<b>137</b>
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC		Aluminium	<b>147</b>
			Stainless steel	<b>216</b>
	• <b>TS 5000 ISM</b> with slide rail • Fitting on opening side (hinge side) • Opening angle 173°	<i>Standard</i>	Silver-coloured	<b>646</b>
			RAL to choose	<b>797</b>

	<ul style="list-style-type: none"><li>Mortice lock BKS 1828 including espagnolette lock (fixed leaf)</li></ul>			<i>Standard</i>	
	<ul style="list-style-type: none"><li>Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock</li></ul>		Anti-panic function double-leaf	<b>729</b>	
	<ul style="list-style-type: none"><li>Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock</li></ul>		Anti-panic function double-leaf	<b>560</b>	
	<ul style="list-style-type: none"><li>Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock</li></ul>		Anti-panic function double-leaf	<b>565</b>	
	<ul style="list-style-type: none"><li>Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable</li></ul> <p>⚠ Please take into consideration 2 hinges for the leaf!</p>		EV1	<i>Standard</i>	
			RAL to choose	Per hinge	<b>62</b>
			Stainless steel look	Per hinge	<b>86</b>
			Stainless steel	Per hinge	<b>175</b>
	<ul style="list-style-type: none"><li>Hörmann guide roller, 2-way adjustable</li></ul> <p>⚠ Please take into consideration 2 hinges for the leaf!</p>		RAL to choose	Per hinge	<b>207</b>

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

		<b>Retractable bottom seal</b>		
		<ul style="list-style-type: none"><li>For fitting on a smooth, level floor</li></ul> <p>⚠ Limited leak tightness of doors in outside application</p>	Double-leaf	<i>Standard</i>
		<b>Delayed retractable bottom seal</b>		
		<ul style="list-style-type: none"><li>Suitable with different pressure ratios (loading houses)</li><li>For fitting on a smooth, level floor</li></ul> <p>⚠ Limited leak tightness of doors in outside application</p>	Double-leaf For A/RS	<b>298</b>
			Double-leaf For OT80	<b>650</b>
		<b>Floor covering transition profile</b>		
Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor		Double-leaf	<b>72</b>	

### Accessories










<b>Glazings and infills</b>	See from page 176
<b>Horizontal rails / vertical rails</b>	See page 195
<b>Fittings</b> Lever handle sets, profile cylinders, locks and electric extras	See from page 182
<b>Door closers, hold-open devices and operators</b>	See from page 198
<b>Security features RC 2 / RC 3 acc. to DIN EN 1627</b>	See from page 180
<b>Steel frames for tubular frame parts</b>	See from page 168



# A / RS 200 – aluminium hollow profiled section door

Smoke-tight door assemblies, double-leaf with thermal insulation



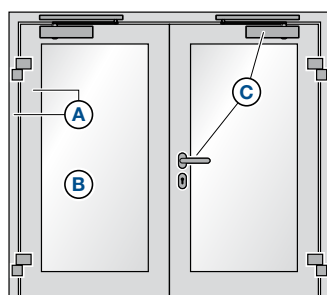
Approved as	Internal door	External door	Internal door	Internal door
	<b>A/RS 200</b>	<b>A/RS 200</b>	<b>A/RS 200</b> With frame without face	<b>A/RS 200</b> With steel frame
Depth [mm]	80 mm			
RAM width (min – max) [mm]	1355 – 3000	1400 × 2600	1538 × 2810	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	1740 × 2500	1710 × 2500	BRM 1705 × 2965
RAM including transom light max. [mm]			2810 × 3000	BRM 2930 × 3500
Optional additional functions	 	  	 	 

## Detailed product description




Technical description, fitting instructions, fast-track programme

A/RS 200

See page 40



### Door set price =

-  Frame / leaf
- +  Glazings
- +  Door fitting / additional function



### Frame / leaf

**Ordering sizes**  
(RAM)  
up to width × up to height

### Frame / door leaf price

**A/RS 200**  
RAL 9016, E6/EV1

m<sup>2</sup>  
Glazing area

Surface coating \*  
Surcharge

Preferred  
colour

RAL to  
choose

Special  
colour

3000	×	2010	<b>5245</b>	4,47	306	399	598
		2135	<b>5293</b>	4,79	312	405	606
		2290	<b>5356</b>	5,19	318	413	620
		2385	<b>5393</b>	5,43	325	423	634
		2510	<b>5442</b>	5,75	330	431	646
		2600	<b>5478</b>	5,99	333	433	650
		2710	<b>5521</b>	6,27	340	441	660
		2885	<b>5590</b>	6,72	349	455	682
		3000	<b>5637</b>	7,01	356	463	694

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m **26**

### Construction project door OT 80

Construction project door OT 80 (door without smoke-tight properties, therefore omission of retractable bottom seal)

Price reduction **-350**

### Aluminium frame without face

Aluminium frame without face with stainless steel guide rollers and integrated door closer ITS 96

**2486**

### A / RS 200 outside application



Threshold with thermal break for water tightness under heavy rain (*standard* for outside application)

**-127**

Top locking (only for doors from RAM height > 2150 mm, optional triple lock)

**436**

Already suitable for outside application with standard glazing (insulated glass)



# Glazings, door fittings, additional functions

## A / RS 200 – aluminium hollow profiled section door



**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Per leaf 198

#### For interior applications

	No.	max. glass dimensions	Per m <sup>2</sup> €
<b>Insulated glazing 2 x laminated safety glass 6 mm (U<sub>D</sub> = 3.0) <i>standard</i></b>	<b>226</b>	1500 x 2500 mm	<b>305</b>
Insulated glass 2 x laminated safety glass 6 mm (U <sub>D</sub> = 1.1)	<b>288</b>	1500 x 2500 mm	<b>323</b>
Insulated glass 2 x laminated safety glass 8 mm (U <sub>D</sub> = 1.1)	<b>091</b>	2600 x 4500 mm	<b>376</b>
Insulated glass 2 x single-pane safety glass 8 mm (U <sub>D</sub> = 1.1)	<b>095</b>	2500 x 5000 mm	<b>660</b>
Aluminium panel	<b>517</b>	1250 x 2500 mm	<b>467</b>
Aluminium glass panel (2 x aluminium sheet, insulated glass on the inside)	<b>511</b>	1250 x 2500 mm	<b>766</b>
Aluminium glass panel (2 x aluminium sheet, acoustic insulation glass on the inside)	<b>509</b>	1250 x 2500 mm	<b>1044</b>

**C**

### Door fitting / additional function

Surcharge €



- **Lever handle set D116**, oval rose escutcheon PC

*Standard* Aluminium 98

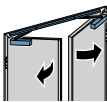
Stainless steel 137



- **Lever / knob handle set D116 with knob K117**, oval rose escutcheon PC

Aluminium 147

Stainless steel 216



- **TS 5000 ISM** with slide rail
- Fitting on opening side (hinge side)
- Opening angle 173°

*Standard* Silver-coloured 646

#### Notice:

An overhead door closer is not necessary for OT80 doors

RAL to choose 797



- Mortice lock BKS 1828 including espagnolette lock (fixed leaf)

*Standard*



- Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock

Anti-panic function double-leaf 729

- Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock

Anti-panic function double-leaf 560

- Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock

Anti-panic function double-leaf 565



- Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable
- ⚠ Please take into consideration 2 hinges for the leaf!

EV1 *Standard*

RAL to choose Per hinge 62

Stainless steel look Per hinge 86



- Hörmann guide roller, 2-way adjustable
- ⚠ Please take into consideration 2 hinges for the leaf!

Stainless steel Per hinge 175

RAL to choose Per hinge 207

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3

#### Retractable bottom seal

- For fitting on a smooth, level floor
- ⚠ Limited leak tightness of doors in outside application

Double-leaf *Standard*



#### Delayed retractable bottom seal

- Suitable with different pressure ratios (loading houses)
- For fitting on a smooth, level floor
- ⚠ Limited leak tightness of doors in outside application

Double-leaf For A/RS 298

Double-leaf For OT80 650



#### Floor covering transition profile

Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor

Double-leaf 72

### Accessories

**Glazings and infills** See from page 176

**Horizontal rails / vertical rails** See from page 195

**Fittings** See from page 182  
Lever handle sets, profile cylinders, locks and electric extras

**Door closers, hold-open devices and operators** See from page 198

**Security features RC 2 / RC 3 acc. to DIN EN 1627** See from page 180

**Steel frames for tubular frame parts** See from page 168

# A / RS 300 – aluminium fixed glazing

Smoke-tight glazing with thermal insulation – for doors and walls as a transom light, side element or fixed glazing



Approved as	Interior smoke-tight glazing		Exterior smoke-tight glazing
	A/RS 300 Inside application	A/RS 300 With frame without face <sup>1)</sup>	A/RS 300 Outside application <sup>2)</sup>
Depth [mm]	80 mm		
RAM width (max) [mm]	Unlimited	Single-leaf 1415, double-leaf 2810	1400 (side element), 3000 (transom light)
RAM height (max) [mm]	4960 without door, 4500 with door	1000	3100 (side element), 1580 (transom light)
Optional additional functions			

1) Only possible as transom light

2) Exclusive glazings (without door) are available up to a max. RAM of 1500 x 2500 mm (single element) or 4500 x 2500 mm (vertical / horizontal profile or coupling construction)

## Detailed product description

Technical description, fitting instructions

A/RS 300

See page 42

Fixed glazing A / RS 300									
Ordering sizes (RAM) up to width x up to height			Frame price  A/RS 300 RAL 9016, E6/EV1		m <sup>2</sup> Glazing area <sup>3)</sup>		Surface coating <sup>4)</sup> Surcharge		
							Preferred colour	RAL to choose	Special colour
 Transom light	520	× 510	782		0,50		43	55	83
		635	812		0,50		47	59	89
		760	844		0,50		49	63	97
		885	878		0,50		55	71	107
		1040	916		0,50		61	80	120
		1135	940		0,50		62	81	123
		1260	971		0,50		67	87	131
		1395	1005		0,54		71	91	139
		1500	1032		0,58		72	92	141
							47	59	89
 Side element	645	× 510	812		0,50		47	59	89
		635	844		0,50		50	65	98
		760	878		0,50		56	73	110
		885	908		0,50		62	81	123
		1040	946		0,51		67	87	131
		1135	971		0,56		70	90	137
		1260	1003		0,63		72	92	141
		1395	1038		0,70		76	99	148
		1500	1064		0,76		78	102	152
							50	65	98
 Fixed glazing	770	× 510	844		0,50		50	65	98
		635	878		0,50		56	73	110
		760	908		0,50		63	83	124
		885	940		0,52		66	86	130
		1040	979		0,63		71	91	139
		1135	1003		0,69		75	98	146
		1260	1035		0,77		76	99	148
		1395	1068		0,86		80	104	156
		1500	1095		0,93		80	104	156
							54	70	105
	895	× 510	878		0,50		61	80	120
		635	908		0,50		67	87	131
		760	940		0,52		71	91	139
		885	971		0,62		75	98	146
		1040	1011		0,74		78	102	152
		1135	1035		0,82		80	104	156
		1260	1066		0,92		81	106	159
		1395	1102		1,03		84	108	164
		1500	1128		1,11				

Door set price =

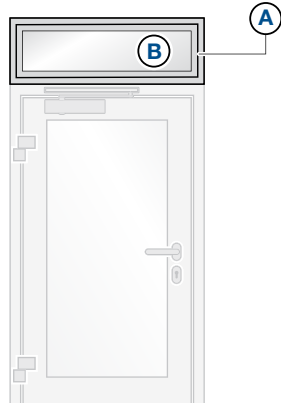
Ⓐ Frame

+ Ⓑ Glazing

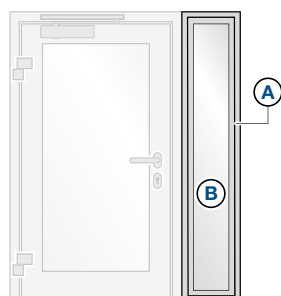
3) Minimum calculation surface 0.5 m<sup>2</sup>

4) For an overview of available surface finishes, see page 54

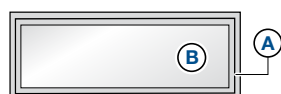
► For additional size ranges, see next page



Transom light



Side element



Fixed glazing

**A**

### Fixed glazing A / RS 300

Ordering sizes (RAM) up to width × up to height			Frame price <b>A/RS 300</b> RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>3)</sup>	Surface coating <sup>4)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1020	×	510	<b>908</b>	0,50	59	78	115
		635	<b>940</b>	0,50	66	86	130
		760	<b>971</b>	0,60	71	91	139
		885	<b>1003</b>	0,72	75	98	146
		1040	<b>1042</b>	0,86	79	103	153
		1135	<b>1066</b>	0,95	80	104	156
		1260	<b>1097</b>	1,06	81	106	159
		1395	<b>1133</b>	1,19	85	109	165
1145	×	1500	<b>1160</b>	1,28	86	112	168
		510	<b>940</b>	0,50	63	83	124
		635	<b>971</b>	0,56	71	91	139
		760	<b>1003</b>	0,69	72	92	141
		885	<b>1035</b>	0,82	76	99	148
		1040	<b>1074</b>	0,98	81	106	159
		1135	<b>1097</b>	1,08	83	107	161
		1260	<b>1131</b>	1,21	85	109	165
1270	×	1395	<b>1164</b>	1,35	89	116	175
		1500	<b>1192</b>	1,46	91	120	180
		510	<b>971</b>	0,50	67	87	131
		635	<b>1003</b>	0,62	72	92	141
		760	<b>1035</b>	0,77	76	99	148
		885	<b>1066</b>	0,91	80	104	156
		1040	<b>1107</b>	1,10	84	108	164
		1135	<b>1131</b>	1,21	85	109	165
		1260	<b>1162</b>	1,35	89	116	175
		1395	<b>1197</b>	1,51	91	120	180
		1500	<b>1222</b>	1,63	98	126	189

► For additional size ranges, see next page

### Door set price =

- (A) Frame  
 + (B) Glazing

### Other door versions

Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m **26**

Vertical / horizontal profile constructions opening outwards

✓ Doors with side element and / or transom light (glazing beads on opposite hinge side)

**317**

### Aluminium frame without face

Aluminium frame without face for version with transom light

**304**

### A / RS 300 in outside application



Already suitable for outside application with standard glazing (insulated glass)

**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

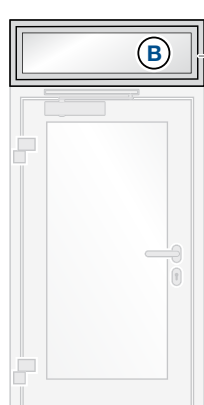
Each **198**

For interior applications	No.	max. glass dimensions	Per m <sup>2</sup> €
<b>Insulated glazing 2 × laminated safety glass 6 mm (U<sub>D</sub> = 3.0) standard</b>	<b>226</b>	1500 × 2500 mm	<b>305</b>
Insulated glass 2 × laminated safety glass 6 mm (U <sub>D</sub> = 1.1)	<b>288</b>	1500 × 2500 mm	<b>323</b>
Insulated glass 2 × laminated safety glass 8 mm (U <sub>D</sub> = 1.1)	<b>091</b>	2600 × 4500 mm	<b>376</b>
Insulated glass 2 × single-pane safety glass 8 mm (U <sub>D</sub> = 1.1)	<b>095</b>	2500 × 5000 mm	<b>660</b>
Aluminium panel	<b>517</b>	1250 × 2500 mm	<b>467</b>
Aluminium glass panel (2 × aluminium sheet, insulated glass on the inside)	<b>511</b>	1250 × 2500 mm	<b>766</b>
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	<b>509</b>	1250 × 2500 mm	<b>1044</b>

### Accessories

<b>Optional extras</b>	See from page 179
<b>Horizontal rails and vertical rails, crossing points</b>	See page 195
<b>Special glass</b>	See from page 176
<b>Steel frames for version with transom light</b>	See from page 168





Transom light



Side element



Fixed glazing

**A**

### Fixed glazing A / RS 300

Ordering sizes (RAM) up to width × up to height			Frame price <b>A/RS 300</b> RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>3)</sup>	Surface coating <sup>4)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1895	×	510	<b>1131</b>	0,73	80	104	156
		635	<b>1162</b>	0,96	84	108	164
		760	<b>1194</b>	1,18	89	116	175
		885	<b>1224</b>	1,40	91	120	180
		1040	<b>1264</b>	1,68	99	129	193
		1135	<b>1288</b>	1,85	103	133	200
		1260	<b>1320</b>	2,08	105	135	205
		1395	<b>1354</b>	2,32	109	142	213
2020	×	1500	<b>1381</b>	2,51	112	146	219
		510	<b>1162</b>	0,78	83	107	161
		635	<b>1194</b>	1,02	86	112	168
		760	<b>1224</b>	1,26	89	116	175
		885	<b>1257</b>	1,50	97	125	187
		1040	<b>1297</b>	1,80	102	131	196
		1135	<b>1320</b>	1,98	105	135	205
		1260	<b>1352</b>	2,22	108	141	212
2145	×	1395	<b>1387</b>	2,48	115	151	226
		1500	<b>1413</b>	2,68	120	156	235
		510	<b>1194</b>	0,83	84	108	164
		635	<b>1224</b>	1,09	87	113	170
		760	<b>1257</b>	1,34	91	120	180
		885	<b>1288</b>	1,60	99	129	193
		1040	<b>1329</b>	1,92	104	134	201
		1135	<b>1352</b>	2,11	107	140	209
		1260	<b>1385</b>	2,37	110	144	217
		1395	<b>1417</b>	2,64	120	156	235
		1500	<b>1446</b>	2,86	123	158	238

► For additional size ranges, see next page

### Door set price =

- (A) Frame  
 + (B) Glazing

### Other door versions Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m **26**

Vertical / horizontal profile constructions opening outwards

✓ Doors with side element and / or transom light (glazing beads on opposite hinge side)

**317**

### Aluminium frame without face

Aluminium frame without face for version with transom light

**304**

### A / RS 300 in outside application



Already suitable for outside application with standard glazing (insulated glass)

**B**

### Glazing (standard delivery glass / panel separate)

**Surcharge €**

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Each **198**

For interior applications	No.	max. glass dimensions	Per m <sup>2</sup> €
<b>Insulated glazing 2 × laminated safety glass 6 mm (U<sub>D</sub> = 3.0) standard</b>	<b>226</b>	1500 × 2500 mm	<b>305</b>
Insulated glass 2 × laminated safety glass 6 mm (U <sub>D</sub> = 1.1)	<b>288</b>	1500 × 2500 mm	<b>323</b>
Insulated glass 2 × laminated safety glass 8 mm (U <sub>D</sub> = 1.1)	<b>091</b>	2600 × 4500 mm	<b>376</b>
Insulated glass 2 × single-pane safety glass 8 mm (U <sub>D</sub> = 1.1)	<b>095</b>	2500 × 5000 mm	<b>660</b>
Aluminium panel	<b>517</b>	1250 × 2500 mm	<b>467</b>
Aluminium glass panel (2 × aluminium sheet, insulated glass on the inside)	<b>511</b>	1250 × 2500 mm	<b>766</b>
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	<b>509</b>	1250 × 2500 mm	<b>1044</b>

### Accessories

<b>Optional extras</b>	See from page 179
<b>Horizontal rails and vertical rails, crossing points</b>	See page 195
<b>Special glass</b>	See from page 176
<b>Steel frames for version with transom light</b>	See from page 168

# A / RS 300 – aluminium fixed glazing

Smoke-tight glazing with thermal insulation – for doors and walls as a transom light, side element or fixed glazing



Approved as	Interior smoke-tight glazing		Exterior smoke-tight glazing
	A/RS 300 Inside application	A/RS 300 With frame without face <sup>1)</sup>	A/RS 300 Outside application <sup>2)</sup>
Depth [mm]	80 mm		
RAM width (max) [mm]	Unlimited	Single-leaf 1415, double-leaf 2810	1400 (side element), 3000 (transom light)
RAM height (max) [mm]	4960 without door, 4500 with door	1000	3100 (side element), 1580 (transom light)
Optional additional functions			

1) Only possible as transom light

2) Exclusive glazings (without door) are available up to a max. RAM of 1500 x 2500 mm (single element) or 4500 x 2500 mm (vertical/horizontal profile or coupling construction)

## Detailed product description

Technical description, fitting instructions

A/RS 300

See page 42

Fixed glazing A / RS 300									
Ordering sizes (RAM) up to width x up to height		Frame price  A/RS 300 RAL 9016, E6/EV1		m <sup>2</sup> Glazing area <sup>3)</sup>		Surface coating <sup>4)</sup> Surcharge			
						Preferred colour	RAL to choose	Special colour	
2270	x	510	1224	0,88		86	112	168	
		635	1257	1,16		89	116	175	
		760	1288	1,43		97	125	187	
		885	1320	1,70		102	131	196	
		1040	1359	2,03		106	139	208	
		1135	1385	2,24		109	142	213	
		1260	1415	2,51		116	152	227	
		1395	1450	2,80		123	158	238	
		1500	1477	3,03		126	164	244	
2395	x	510	1257	0,94		87	113	170	
		635	1288	1,22		94	124	186	
		760	1320	1,51		99	129	193	
		885	1352	1,80		104	134	201	
		1040	1391	2,15		108	141	212	
		1135	1415	2,37		112	146	219	
		1260	1448	2,66		121	157	236	
		1395	1482	2,96		126	164	244	
		1500	1507	3,21		130	168	253	
2500	x	510	1283	0,98		89	116	175	
		635	1315	1,28		97	125	187	
		760	1346	1,58		102	131	196	
		885	1378	1,88		106	139	208	
		1040	1417	2,25		110	144	217	
		1135	1442	2,48		116	152	227	
		1260	1474	2,78		124	161	241	
		1395	1507	3,10		129	167	251	
		1500	1535	3,35		132	171	258	
2615	x	510	1313	1,03		90	118	178	
		635	1344	1,34		99	129	193	
		760	1375	1,65		103	133	200	
		885	1409	1,97		107	140	209	
		1040	1448	2,36		116	152	227	
		1135	1472	2,60		121	157	236	
		1260	1502	2,91		126	164	244	
		1395	1537	3,25		131	170	256	
		1500	1563	3,51		137	178	269	

Door set price =

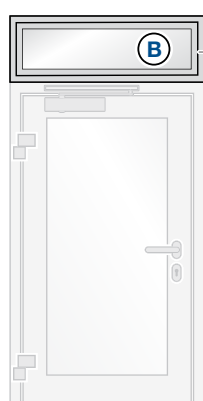
(A) Frame

+ (B) Glazing

3) Minimum calculation surface 0.5 m<sup>2</sup>

4) For an overview of available surface finishes, see page 54

► For additional size ranges, see next page



Transom light



Side element



Fixed glazing

**A**

### Fixed glazing A / RS 300

Ordering sizes (RAM) up to width × up to height			Frame price  A/RS 300 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>3)</sup>	Surface coating <sup>4)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
2730	×	510	<b>1342</b>	1,07	94	124	186
		635	<b>1373</b>	1,40	101	130	194
		760	<b>1406</b>	1,73	105	135	205
		885	<b>1437</b>	2,06	109	142	213
		1040	<b>1476</b>	2,47	121	157	236
		1135	<b>1500</b>	2,71	124	161	241
		1260	<b>1532</b>	3,04	129	167	251
		1395	<b>1566</b>	3,40	135	177	266
		1500	<b>1593</b>	3,67	140	183	273
2845	×	510	<b>1370</b>	1,12	98	126	189
		635	<b>1402</b>	1,46	103	133	200
		760	<b>1435</b>	1,80	106	139	208
		885	<b>1467</b>	2,15	112	146	219
		1040	<b>1505</b>	2,57	123	158	238
		1135	<b>1528</b>	2,83	127	166	250
		1260	<b>1561</b>	3,18	131	170	256
		1395	<b>1596</b>	3,55	139	180	270
		1500	<b>1622</b>	3,83	143	187	279
3000	×	510	<b>1411</b>	1,18	99	129	193
		635	<b>1442</b>	1,54	105	135	205
		760	<b>1474</b>	1,91	108	141	212
		885	<b>1505</b>	2,27	116	152	227
		1040	<b>1545</b>	2,72	126	164	244
		1135	<b>1568</b>	2,99	130	168	253
		1260	<b>1601</b>	3,36	137	178	269
		1395	<b>1634</b>	3,75	142	185	276
		1500	<b>1661</b>	4,05	148	193	291

### Door set price =

**A** Frame

+ **B** Glazing

Larger RAM in width and height on request.

### Other door versions Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m **26**

Vertical / horizontal profile constructions opening outwards

✓ Doors with side element and / or transom light (glazing beads on opposite hinge side)

**317**

### Aluminium frame without face

Aluminium frame without face for version with transom light

**304**

### A / RS 300 in outside application



Already suitable for outside application with standard glazing (insulated glass)

**B**

### Glazing (standard delivery glass / panel separate)

**Surcharge €**

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Each **198**

For interior applications	No.	max. glass dimensions	Per m <sup>2</sup> €
<b>Insulated glazing 2 × laminated safety glass 6 mm (U<sub>D</sub> = 3.0) standard</b>	<b>226</b>	1500 × 2500 mm	<b>305</b>
Insulated glass 2 × laminated safety glass 6 mm (U <sub>D</sub> = 1.1)	<b>288</b>	1500 × 2500 mm	<b>323</b>
Insulated glass 2 × laminated safety glass 8 mm (U <sub>D</sub> = 1.1)	<b>091</b>	2600 × 4500 mm	<b>376</b>
Insulated glass 2 × single-pane safety glass 8 mm (U <sub>D</sub> = 1.1)	<b>095</b>	2500 × 5000 mm	<b>660</b>
Aluminium panel	<b>517</b>	1250 × 2500 mm	<b>467</b>
Aluminium glass panel (2 × aluminium sheet, insulated glass on the inside)	<b>511</b>	1250 × 2500 mm	<b>766</b>
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	<b>509</b>	1250 × 2500 mm	<b>1044</b>

### Accessories

<b>Optional extras</b>	See from page 179
<b>Horizontal rails and vertical rails, crossing points</b>	See page 195
<b>Special glass</b>	See from page 176
<b>Steel frames for version with transom light</b>	See from page 168

Good reasons to try Hörmann  
steel tubular frame construction  
project doors



Particularly narrow door view

**S-Line system**

**HÖRMANN**



# Aluminium internal doors

Aluminium tubular frame parts

## Contents



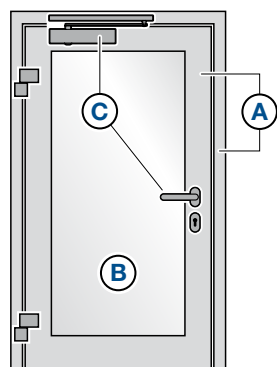
Product overview		From page
Internal doors – aluminium with extensive glazing		
ES 50	Single-leaf	152
	Double-leaf	156
	Side element / fixed glazing	162
Overhead door closers		From page 196
Fittings and optional extras		From page 182
Operators		From page 208

# ES 50 – aluminium

## Tubular frame internal doors without thermal insulation, single-leaf



Approved as	Internal door	Internal door
	<b>ES 50</b>	<b>ES 50</b> With steel frame
Depth [mm]	50	50 mm
RAM width (min – max) [mm]	605 – 1500	BRM 535 – 1430
RAM height (min – max) [mm]	1740 – 3000	BRM 1705 – 2965
RAM including transom light max. [mm]		BRM 1430 – 3500
Optional additional functions		



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 1 x mortice lock BKS 1828
- 2 x 3-way adjustable door hinge (Dr. Hahn 4), EV 1, 20 mm pivot point, two part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width x up to height			Frame / door leaf price	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
			ES 50 RAL 9016, E6/EV1		Preferred colour	RAL to choose	Special colour
1020	x	2010	<b>1901</b>	1,30	140	182	272
		2135	<b>1923</b>	1,39	143	186	278
		2290	<b>1949</b>	1,51	147	190	286
		2385	<b>1965</b>	1,58	150	195	293
		2510	<b>1984</b>	1,67	153	200	299
		2600	<b>1999</b>	1,74	156	203	304
		2710	<b>2018</b>	1,82	157	205	307
		2885	<b>2048</b>	1,95	161	209	314
		3000	<b>2067</b>	2,04	164	212	318
1145	x	2010	<b>1923</b>	1,52	146	189	285
		2135	<b>1944</b>	1,63	149	194	292
		2290	<b>1970</b>	1,76	151	196	295
		2385	<b>1984</b>	1,84	155	201	303
		2510	<b>2007</b>	1,95	157	205	307
		2600	<b>2020</b>	2,03	159	207	311
		2710	<b>2038</b>	2,13	162	211	316
		2885	<b>2068</b>	2,28	167	217	325
		3000	<b>2088</b>	2,38	171	222	334
1270	x	2010	<b>1944</b>	1,73	150	195	293
		2135	<b>1965</b>	1,86	153	200	299
		2290	<b>1991</b>	2,01	157	205	307
		2385	<b>2007</b>	2,11	159	207	311
		2510	<b>2028</b>	2,23	162	211	316
		2600	<b>2040</b>	2,32	165	213	321
		2710	<b>2060</b>	2,43	167	217	325
		2885	<b>2089</b>	2,61	172	225	339
		3000	<b>2107</b>	2,72	175	227	342

### Door versions

### Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m


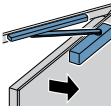






**22**

# Glazings, door fittings, additional functions

## ES 50 tubular frame internal doors without thermal insulation, single-leaf



B	Glazing (standard delivery glass / panel fitted at the factory)		Surcharge €	
	For interior applications	No.	max. glass dimensions	Per m <sup>2</sup> €
	Standard glazing, laminated safety glass 6 mm	033	2250 × 2333 mm	99
	Glazing, laminated safety glass 8 mm (standard from RAM height 2710 mm)	525	2600 × 4500 mm	115
	Glazing laminated safety glass 10 mm	527	2600 × 4500 mm	158
	Glazing laminated safety glass 6 mm with matt plastic film	528	2250 × 2333 mm	155
	Glazing single-pane safety glass 8 mm	524	2400 × 4500 mm	178
	Glazing single-pane safety glass 10 mm	526	2400 × 4500 mm	239
	Aluminium panel	527	1250 × 2500 mm	617
	Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	514	1250 × 2500 mm	790

Door fitting / additional function		Surcharge €	
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	Standard	Aluminium 98
			Stainless steel 137
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC		Aluminium 147
			Stainless steel 216
<b>Optional door closers</b>			
	• <b>HDC 35</b> EN 3–5 with slide rail • Fitting on opening side (hinge side) • RAM width min. 605 mm, max. 1270 mm	Standard	Silver-coloured 213
			RAL to choose 276
	• <b>TS 5000</b> EN 2–6 with slide rail • Fitting on opening side (hinge side) • RAM width min. 605 mm, max. 1500 mm		Silver-coloured 308
			RAL to choose 360
	• Mortice lock BKS 1828		Standard
	• Mortice lock BKS 1820 for change-over function B	Anti-panic function, single-leaf / half anti-panic, double-leaf	298
	• Mortice lock BKS 1824 for passage function D	Anti-panic function, single-leaf / half anti-panic, double-leaf	227
	• Mortice lock BKS 1826 for lever / knob function E	Anti-panic function, single-leaf / half anti-panic, double-leaf	144
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1	Standard
		RAL to choose	Per hinge 62
		Stainless steel look	Per hinge 86
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel	Per hinge 175
		RAL to choose	Per hinge 207
	<b>Retractable bottom seal</b> • For fitting on a smooth, level floor		Single-leaf 175
	<b>Delayed retractable bottom seal</b> • Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor		Single-leaf 325
	<b>Floor covering transition profile</b> Flat stainless steel material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor		Single-leaf 36



**Smoke-tight version (A / RS 150)**

See page 110

### Accessories

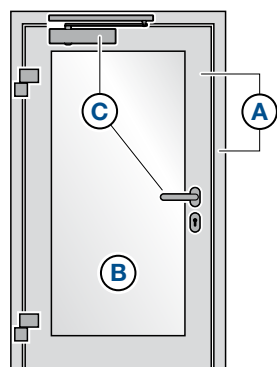
<b>Horizontal rails and vertical rails, crossing points</b>	See page 195
<b>Other glasses</b>	See from page 176
<b>Lever handle sets</b>	See from page 182
<b>Fittings</b> Profile cylinders, locks and electric extras	See from page 188
<b>Steel frames for tubular frame parts</b>	See from page 168

# ES 50 – aluminium

Tubular frame internal doors without thermal insulation, single-leaf



Approved as	Internal door	Internal door
	<b>ES 50</b>	<b>ES 50</b> With steel frame
Depth [mm]	50	50 mm
RAM width (min – max) [mm]	605 – 1500	BRM 535 – 1430
RAM height (min – max) [mm]	1740 – 3000	BRM 1705 – 2965
RAM including transom light max. [mm]		BRM 1430 – 3500
Optional additional functions		



## Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

## Already included in the price:

- 1 x mortice lock BKS 1828
- 2 x 3-way adjustable door hinge (Dr. Hahn 4), EV 1, 20 mm pivot point, two part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54

**A**

## Frame / leaf

Ordering sizes (RAM) up to width x up to height			Frame / door leaf price  ES 50 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1370	x	2010	<b>1960</b>	1,91	157	205	306
		2135	<b>1981</b>	2,05	161	209	314
		2290	<b>2007</b>	2,22	165	215	322
		2385	<b>2021</b>	2,32	167	217	325
		2510	<b>2044</b>	2,46	169	220	330
		2600	<b>2057</b>	2,56	171	222	334
		2710	<b>2077</b>	2,68	174	226	341
		2885	<b>2105</b>	2,87	182	236	354
		3000	<b>2124</b>	3,00	184	238	358
1500	x	2010	<b>1982</b>	2,13	162	211	316
		2135	<b>2003</b>	2,29	165	215	322
		2290	<b>2029</b>	2,48	169	220	330
		2385	<b>2044</b>	2,59	171	222	334
		2510	<b>2066</b>	2,75	174	226	341
		2600	<b>2080</b>	2,86	180	234	349
		2710	<b>2099</b>	2,99	183	237	355
		2885	<b>2126</b>	3,21	187	242	364
		3000	<b>2146</b>	3,35	189	247	370

## Door versions

## Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**22**

# Glazings, door fittings, additional functions

## ES 50 tubular frame internal doors without thermal insulation, single-leaf



**B**

### Glazing (standard delivery glass / panel fitted at the factory)

Surcharge €

For interior applications	No.	max. glass dimensions	Per m² €
<i>Standard</i> glazing, laminated safety glass 6 mm	<b>033</b>	2250 × 2333 mm	<b>99</b>
Glazing, laminated safety glass 8 mm ( <i>standard from RAM height 2710 mm</i> )	<b>525</b>	2600 × 4500 mm	<b>115</b>
Glazing laminated safety glass 10 mm	<b>527</b>	2600 × 4500 mm	<b>158</b>
Glazing laminated safety glass 6 mm with matt plastic film	<b>528</b>	2250 × 2333 mm	<b>155</b>
Glazing single-pane safety glass 8 mm	<b>524</b>	2400 × 4500 mm	<b>178</b>
Glazing single-pane safety glass 10 mm	<b>526</b>	2400 × 4500 mm	<b>239</b>
Aluminium panel	<b>527</b>	1250 × 2500 mm	<b>617</b>
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	<b>514</b>	1250 × 2500 mm	<b>790</b>

**C**

### Door fitting / additional function

Surcharge €

	<ul style="list-style-type: none"><li><b>Lever handle set D116</b>, oval rose escutcheon PC</li></ul>	<i>Standard</i>	Aluminium	<b>98</b>
			Stainless steel	<b>137</b>
	<ul style="list-style-type: none"><li><b>Lever / knob handle set D116 with knob K117</b>, oval rose escutcheon PC</li></ul>		Aluminium	<b>147</b>
			Stainless steel	<b>216</b>
<b>Optional door closers</b>				
	<ul style="list-style-type: none"><li><b>HDC 35</b> EN 3–5 with slide rail</li><li>Fitting on opening side (hinge side)</li><li>RAM width min. 605 mm, max. 1270 mm</li></ul>	<i>Standard</i>	Silver-coloured	<b>213</b>
			RAL to choose	<b>276</b>
	<ul style="list-style-type: none"><li><b>TS 5000</b> EN 2–6 with slide rail</li><li>Fitting on opening side (hinge side)</li><li>RAM width min. 605 mm, max. 1500 mm</li></ul>		Silver-coloured	<b>308</b>
			RAL to choose	<b>360</b>
	<ul style="list-style-type: none"><li>Mortice lock BKS 1828</li></ul>			<i>Standard</i>
	<ul style="list-style-type: none"><li>Mortice lock BKS 1820 for change-over function B</li></ul>	Anti-panic function, single-leaf / half anti-panic, double-leaf		<b>298</b>
	<ul style="list-style-type: none"><li>Mortice lock BKS 1824 for passage function D</li></ul>	Anti-panic function, single-leaf / half anti-panic, double-leaf		<b>227</b>
	<ul style="list-style-type: none"><li>Mortice lock BKS 1826 for lever / knob function E</li></ul>	Anti-panic function, single-leaf / half anti-panic, double-leaf		<b>144</b>
	<ul style="list-style-type: none"><li>Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable</li></ul> <div>⚠ Please take into consideration 2 hinges for the leaf!</div>	EV1		<i>Standard</i>
		RAL to choose	Per hinge	<b>62</b>
	<ul style="list-style-type: none"><li>Hörmann guide roller, 2-way adjustable</li></ul> <div>⚠ Please take into consideration 2 hinges for the leaf!</div>	Stainless steel look	Per hinge	<b>86</b>
		Stainless steel	Per hinge	<b>175</b>
		RAL to choose	Per hinge	<b>207</b>
	<b>Retractable bottom seal</b> <ul style="list-style-type: none"><li>For fitting on a smooth, level floor</li></ul>		Single-leaf	<b>175</b>
	<b>Delayed retractable bottom seal</b> <ul style="list-style-type: none"><li>Suitable with different pressure ratios (loading houses)</li><li>For fitting on a smooth, level floor</li></ul>		Single-leaf	<b>325</b>
	<b>Floor covering transition profile</b> Flat stainless steel material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor		Single-leaf	<b>36</b>



**Smoke-tight version (A / RS 150)**

See page 110

### Accessories

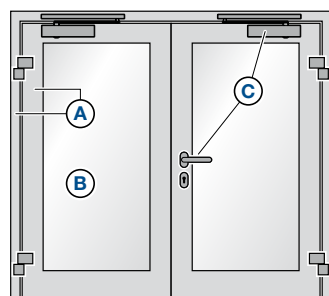
<b>Horizontal rails and vertical rails, crossing points</b>	See page 195
<b>Other glasses</b>	See from page 176
<b>Lever handle sets</b>	See from page 182
<b>Fittings</b> Profile cylinders, locks and electric extras	See from page 188
<b>Steel frames for tubular frame parts</b>	See from page 168

# ES 50 – aluminium

## Tubular frame internal doors without thermal insulation, double-leaf



Approved as	Internal door	Internal door
	ES 50	ES 50
		With steel frame
Depth [mm]	50 mm	50 mm
RAM width (min – max) [mm]	1355 – 3000	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	BRM 1705 × 2965
RAM including transom light max. [mm]		BRM 2930 × 3500
Optional additional functions		



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge (Dr. Hahn 4), EV 1, 20 mm pivot point, two part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  ES 50 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1500	×	2010	<b>3337</b>	1,86	242	316	475
		2135	<b>3360</b>	2,00	247	321	480
		2290	<b>3386</b>	2,16	253	328	493
		2385	<b>3402</b>	2,26	255	332	498
		2510	<b>3424</b>	2,40	260	340	509
		2600	<b>3441</b>	2,49	262	342	512
		2710	<b>3459</b>	2,61	269	348	522
		2885	<b>3489</b>	2,80	273	355	533
		3000	<b>3510</b>	2,92	275	358	536
1645	×	2010	<b>3362</b>	2,11	248	323	485
		2135	<b>3384</b>	2,27	253	328	493
		2290	<b>3411</b>	2,45	260	340	509
		2385	<b>3428</b>	2,57	262	342	512
		2510	<b>3449</b>	2,72	269	348	522
		2600	<b>3466</b>	2,83	271	350	527
		2710	<b>3484</b>	2,96	274	356	534
		2885	<b>3515</b>	3,18	279	364	548
		3000	<b>3535</b>	3,32	284	369	552
1770	×	2010	<b>3384</b>	2,33	254	329	495
		2135	<b>3406</b>	2,50	258	334	504
		2290	<b>3432</b>	2,71	268	346	518
		2385	<b>3449</b>	2,83	270	349	526
		2510	<b>3472</b>	3,00	273	355	533
		2600	<b>3486</b>	3,12	276	360	541
		2710	<b>3506</b>	3,27	279	364	548
		2885	<b>3537</b>	3,50	287	372	560
		3000	<b>3557</b>	3,66	291	378	567
1895	×	2010	<b>3406</b>	2,55	260	340	509
		2135	<b>3428</b>	2,73	268	346	518
		2290	<b>3455</b>	2,96	272	353	530
		2385	<b>3472</b>	3,10	273	355	533
		2510	<b>3494</b>	3,28	277	361	542
		2600	<b>3508</b>	3,41	281	367	551
		2710	<b>3529</b>	3,57	287	372	560
		2885	<b>3558</b>	3,83	292	379	568
		3000	<b>3579</b>	4,00	296	384	578

### Door versions

### Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

22

# Glazings, door fittings, additional functions

## ES 50 tubular frame internal doors without thermal insulation, double-leaf



B	Glazing (standard delivery glass / panel fitted at the factory)		Surcharge €	
	For interior applications	No.	max. glass dimensions	Per m² €
	Standard glazing, laminated safety glass 6 mm	033	2250 × 2333 mm	99
	Glazing, laminated safety glass 8 mm (standard from RAM height 2710 mm)	525	2600 × 4500 mm	115
	Glazing laminated safety glass 10 mm	527	2600 × 4500 mm	158
	Glazing laminated safety glass 6 mm with matt plastic film	528	2250 × 2333 mm	155
	Glazing single-pane safety glass 8 mm	524	2400 × 4500 mm	178
	Glazing single-pane safety glass 10 mm	526	2400 × 4500 mm	239
	Aluminium panel	527	1250 × 2500 mm	617
	Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	514	1250 × 2500 mm	790

C	Door fitting / additional function		Surcharge €	
	• Lever handle set D116, oval rose escutcheon PC	Standard	Aluminium	98
			Stainless steel	137
	• Lever / knob handle set D116 with knob K117, oval rose escutcheon PC		Aluminium	147
			Stainless steel	216
	Optional door closers		Silver-coloured	646
			RAL to choose	797
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)			Standard
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock	Anti-panic function double-leaf		729
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock	Anti-panic function double-leaf		560
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf		565
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1	Standard	
		RAL to choose	Per hinge	62
		Stainless steel look	Per hinge	86
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel	Per hinge	175
		RAL to choose	Per hinge	207
	Retractable bottom seal		Double-leaf	350
	• For fitting on a smooth, level floor			
	Delayed retractable bottom seal			
	• Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor		Double-leaf	650
	Floor covering transition profile Flat stainless steel material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor		Double-leaf	72
	Smoke-tight version (A / RS 250)			See page 114

### Accessories

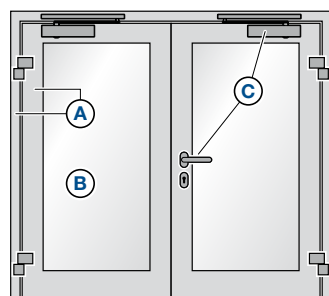
Horizontal rails and vertical rails, crossing points	See page 195
Other glasses	See from page 176
Lever handle sets	See from page 182
Fittings Profile cylinders, locks and electric extras	See from page 188
Steel frames for tubular frame parts	See from page 168

# ES 50 – aluminium

## Tubular frame internal doors without thermal insulation, double-leaf



Approved as	Internal door	Internal door
	<b>ES 50</b>	<b>ES 50</b> With steel frame
Depth [mm]	50 mm	50 mm
RAM width (min – max) [mm]	1355 – 3000	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	BRM 1705 × 2965
RAM including transom light max. [mm]		BRM 2930 × 3500
Optional additional functions		



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge (Dr. Hahn 4), EV 1, 20 mm pivot point, two part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  ES 50 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2020	×	2010	<b>3428</b>	2,77	268	346	518
		2135	<b>3449</b>	2,96	271	350	527
		2290	<b>3477</b>	3,21	275	358	536
		2385	<b>3494</b>	3,36	277	361	542
		2510	<b>3515</b>	3,56	284	369	552
		2600	<b>3531</b>	3,70	287	372	560
		2710	<b>3551</b>	3,88	292	379	568
		2885	<b>3580</b>	4,16	298	388	583
		3000	<b>3600</b>	4,34	305	398	597
2145	×	2010	<b>3449</b>	2,98	271	350	527
		2135	<b>3472</b>	3,20	275	358	536
		2290	<b>3498</b>	3,46	280	366	549
		2385	<b>3515</b>	3,63	286	371	556
		2510	<b>3537</b>	3,84	291	378	567
		2600	<b>3553</b>	3,99	294	382	573
		2710	<b>3571</b>	4,18	298	388	583
		2885	<b>3601</b>	4,48	306	399	598
		3000	<b>3623</b>	4,68	312	405	606
2270	×	2010	<b>3472</b>	3,20	274	356	534
		2135	<b>3494</b>	3,43	279	364	548
		2290	<b>3520</b>	3,72	287	372	560
		2385	<b>3537</b>	3,89	291	378	567
		2510	<b>3558</b>	4,12	296	384	578
		2600	<b>3574</b>	4,29	299	389	585
		2710	<b>3593</b>	4,49	306	399	598
		2885	<b>3624</b>	4,81	312	405	606
		3000	<b>3644</b>	5,02	316	410	617

### Door versions

### Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**22**



# Glazings, door fittings, additional functions

## ES 50 tubular frame internal doors without thermal insulation, double-leaf



**B**

### Glazing (standard delivery glass / panel fitted at the factory)

Surcharge €

For interior applications	No.	max. glass dimensions	Per m <sup>2</sup> €
<i>Standard</i> glazing, laminated safety glass 6 mm	<b>033</b>	2250 × 2333 mm	<b>99</b>
Glazing, laminated safety glass 8 mm ( <i>standard from RAM height 2710 mm</i> )	<b>525</b>	2600 × 4500 mm	<b>115</b>
Glazing laminated safety glass 10 mm	<b>527</b>	2600 × 4500 mm	<b>158</b>
Glazing laminated safety glass 6 mm with matt plastic film	<b>528</b>	2250 × 2333 mm	<b>155</b>
Glazing single-pane safety glass 8 mm	<b>524</b>	2400 × 4500 mm	<b>178</b>
Glazing single-pane safety glass 10 mm	<b>526</b>	2400 × 4500 mm	<b>239</b>
Aluminium panel	<b>527</b>	1250 × 2500 mm	<b>617</b>
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	<b>514</b>	1250 × 2500 mm	<b>790</b>

**C**

### Door fitting / additional function

Surcharge €

	• <b>Lever handle set D116</b> , oval rose escutcheon PC	<i>Standard</i>	Aluminium	<b>98</b>
			Stainless steel	<b>137</b>
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC		Aluminium	<b>147</b>
			Stainless steel	<b>216</b>
	<b>Optional door closers</b> <ul style="list-style-type: none"> <li>• <b>TS 5000 ISM</b> with slide rail</li> <li>• Fitting on opening side (hinge side)</li> <li>• Opening angle 173°</li> </ul>		Silver-coloured	<b>646</b>
			RAL to choose	<b>797</b>
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)			<i>Standard</i>
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock		Anti-panic function double-leaf	<b>729</b>
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock		Anti-panic function double-leaf	<b>560</b>
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock		Anti-panic function double-leaf	<b>565</b>
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1	<i>Standard</i>	
		RAL to choose	Per hinge	<b>62</b>
		Stainless steel look	Per hinge	<b>86</b>
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel	Per hinge	<b>175</b>
		RAL to choose	Per hinge	<b>207</b>
	<b>Retractable bottom seal</b> <ul style="list-style-type: none"> <li>• For fitting on a smooth, level floor</li> </ul>		Double-leaf	<b>350</b>
	<b>Delayed retractable bottom seal</b> <ul style="list-style-type: none"> <li>• Suitable with different pressure ratios (loading houses)</li> <li>• For fitting on a smooth, level floor</li> </ul>		Double-leaf	<b>650</b>
	<b>Floor covering transition profile</b> Flat stainless steel material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor		Double-leaf	<b>72</b>
	<b>Smoke-tight version (A / RS 250)</b>			See page 114

### Accessories

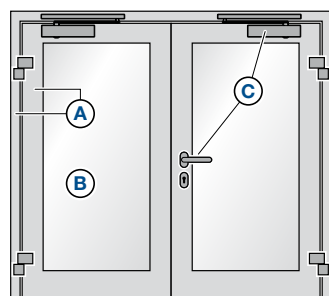
<b>Horizontal rails and vertical rails, crossing points</b>	See page 195
<b>Other glasses</b>	See from page 176
<b>Lever handle sets</b>	See from page 182
<b>Fittings</b> Profile cylinders, locks and electric extras	See from page 188
<b>Steel frames for tubular frame parts</b>	See from page 168

# ES 50 – aluminium

## Tubular frame internal doors without thermal insulation, double-leaf



Approved as	Internal door	Internal door
	ES 50	ES 50 With steel frame
Depth [mm]	50 mm	50 mm
RAM width (min – max) [mm]	1355 – 3000	BRM 1285 × 2930
RAM height (min – max) [mm]	1740 – 3000	BRM 1705 × 2965
RAM including transom light max. [mm]		BRM 2930 × 3500
Optional additional functions		



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge (Dr. Hahn 4), EV 1, 20 mm pivot point, two part

► State opening sense on order!

\* For an overview of available surface finishes, see page 54



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  ES 50 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2395	×	2010	<b>3494</b>	3,42	279	364	548
		2135	<b>3515</b>	3,66	286	371	556
		2290	<b>3541</b>	3,97	292	379	568
		2385	<b>3558</b>	4,15	296	384	578
		2510	<b>3580</b>	4,40	304	396	593
		2600	<b>3595</b>	4,58	306	399	598
		2710	<b>3615</b>	4,79	312	405	606
		2885	<b>3646</b>	5,14	318	413	620
		3000	<b>3666</b>	5,36	324	422	632
2500	×	2010	<b>3511</b>	3,60	284	369	552
		2135	<b>3533</b>	3,86	290	377	564
		2290	<b>3559</b>	4,18	296	384	578
		2385	<b>3577</b>	4,38	303	394	590
		2510	<b>3598</b>	4,63	307	400	600
		2600	<b>3615</b>	4,82	312	405	606
		2710	<b>3635</b>	5,05	316	410	617
		2885	<b>3665</b>	5,41	325	423	634
		3000	<b>3684</b>	5,65	328	427	641
2615	×	2010	<b>3532</b>	3,20	290	377	564
		2135	<b>3554</b>	3,43	295	383	574
		2290	<b>3580</b>	3,72	304	396	593
		2385	<b>3596</b>	3,89	306	399	598
		2510	<b>3618</b>	4,12	313	406	607
		2600	<b>3635</b>	4,29	316	410	617
		2710	<b>3653</b>	4,49	324	422	632
		2885	<b>3684</b>	4,81	329	430	645
		3000	<b>3704</b>	5,02	334	435	654

### Door versions

### Surcharge €



Frame view 110 mm instead of 70 mm (standard)

Per m

**22**

# Glazings, door fittings, additional functions

A / RS 250 – aluminium



B

Glazing (standard delivery glass / panel fitted at the factory)	Surcharge €		
For interior applications	No.	max. glass dimensions	Per m² €
Standard glazing, laminated safety glass 6 mm	033	2250 × 2333 mm	99
Glazing, laminated safety glass 8 mm (standard from RAM height 2710 mm)	525	2600 × 4500 mm	115
Glazing laminated safety glass 10 mm	527	2600 × 4500 mm	158
Glazing laminated safety glass 6 mm with matt plastic film	528	2250 × 2333 mm	155
Glazing single-pane safety glass 8 mm	524	2400 × 4500 mm	178
Glazing single-pane safety glass 10 mm	526	2400 × 4500 mm	239
Aluminium panel	527	1250 × 2500 mm	617
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	514	1250 × 2500 mm	790

C	Door fitting / additional function	Surcharge €		
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	Standard	Aluminium	98
			Stainless steel	137
	• <b>Lever / knob handle set D116 with knob K117</b> , oval rose escutcheon PC		Aluminium	147
			Stainless steel	216
	<b>Optional door closers</b> • <b>TS 5000 ISM</b> with slide rail • Fitting on opening side (hinge side) • Opening angle 173°		Silver-coloured	646
			RAL to choose	797
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)	Standard		
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock	Anti-panic function double-leaf		729
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock	Anti-panic function double-leaf		560
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf		565
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	EV1	Standard	
		RAL to choose	Per hinge	62
		Stainless steel look	Per hinge	86
	• Hörmann guide roller, 2-way adjustable ⚠ Please take into consideration 2 hinges for the leaf!	Stainless steel	Per hinge	175
		RAL to choose	Per hinge	207
	<b>Retractable bottom seal</b> • For fitting on a smooth, level floor		Double-leaf	350
	<b>Delayed retractable bottom seal</b> • Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor		Double-leaf	650
	<b>Floor covering transition profile</b> Flat stainless steel material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor		Double-leaf	72
	<b>Smoke-tight version (A / RS 250)</b>	See page 114		



## Accessories

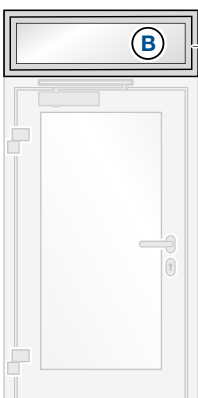


<b>Horizontal rails and vertical rails, crossing points</b>	See page 195
<b>Other glasses</b>	See from page 176
<b>Lever handle sets</b>	See from page 182
<b>Fittings</b> Profile cylinders, locks and electric extras	See from page 188
<b>Steel frames for tubular frame parts</b>	See from page 168

# ES 50 – aluminium

As transom light, side element or fixed glazing



Approved as	<b>Internal fixed glazing</b>
	<b>ES 50</b>
Depth [mm]	50
RAM width (max) [mm]	Unlimited
RAM height (max) [mm]	4500
Optional additional functions	 

		Fixed glazing ES 50			Surface coating <sup>2)</sup> Surcharge		
Ordering sizes (RAM) up to width × up to height			Frame price  ES 50 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>1)</sup>	Preferred colour	RAL to choose	Special colour
	Transom light	520 × 510	651	0,50	43	55	83
		635	668	0,50	47	59	89
		760	685	0,50	49	63	97
		885	701	0,50	55	71	107
		1040	723	0,50	61	80	120
		1135	735	0,50	62	81	123
		1260	752	0,50	67	87	131
		1395	771	0,54	71	91	139
		1500	785	0,58	72	92	141
	Side element	645 × 510	668	0,50	47	59	89
		635	685	0,50	50	65	98
		760	701	0,50	56	73	110
		885	720	0,50	62	81	123
		1040	740	0,51	67	87	131
		1135	752	0,56	70	90	137
		1260	770	0,63	72	92	141
		1395	787	0,70	76	99	148
		1500	801	0,76	78	102	152
	Fixed glazing	770 × 510	685	0,50	50	65	98
		635	701	0,50	56	73	110
		760	720	0,50	63	83	124
		885	735	0,52	66	86	130
		1040	756	0,63	71	91	139
		1135	770	0,69	75	98	146
		1260	786	0,77	76	99	148
		1395	805	0,86	80	104	156
		1500	817	0,93	80	104	156
		895 × 510	701	0,50	54	70	105
		635	720	0,50	61	80	120
		760	735	0,52	67	87	131
		885	752	0,62	71	91	139
		1040	773	0,74	75	98	146
		1135	786	0,82	78	102	152
		1260	803	0,92	80	104	156
		1395	820	1,03	81	106	159
		1500	834	1,11	84	108	164
		1020 × 510	720	0,50	59	78	115
		635	735	0,50	66	86	130
		760	752	0,60	71	91	139
		885	770	0,72	75	98	146
		1040	789	0,86	79	103	153
		1135	803	0,95	80	104	156
		1260	819	1,06	81	106	159
		1395	838	1,19	85	109	165
		1500	853	1,28	86	112	168

Door set price =

**A** Frame

+ **B** Glazing

1) Minimum calculation surface 0.5 m²

2) For an overview of available surface finishes, see page 54

► For additional size ranges, see next page

Door set price =

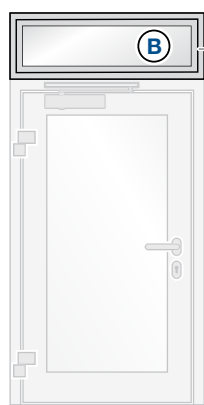
- Ⓐ Frame  
+ Ⓑ Glazing

- 1) Minimum calculation surface 0.5 m<sup>2</sup>  
2) For an overview of available surface finishes, see page 54

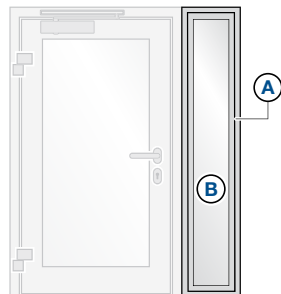
► For additional size ranges, see next page

# ES 50 – aluminium

As transom light, side element or fixed glazing



Transom light



Side element



Fixed glazing

Door set price =

- (A) Frame  
+ (B) Glazing

**A**

## Fixed glazing ES 50

Ordering sizes (RAM) up to width × up to height	Frame price <b>ES 50</b> RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
			Preferred colour	RAL to choose	Special colour
1145 × 510	<b>735</b>	0,50	63	83	124
	<b>752</b>	0,56	71	91	139
	<b>770</b>	0,69	72	92	141
	<b>786</b>	0,82	76	99	148
	<b>807</b>	0,98	81	106	159
	<b>819</b>	1,08	83	107	161
	<b>835</b>	1,21	85	109	165
	<b>855</b>	1,35	89	116	175
	<b>869</b>	1,46	91	120	180
1270 × 510	<b>752</b>	0,50	67	87	131
	<b>770</b>	0,62	72	92	141
	<b>786</b>	0,77	76	99	148
	<b>803</b>	0,91	80	104	156
	<b>824</b>	1,10	84	108	164
	<b>835</b>	1,21	85	109	165
	<b>854</b>	1,35	89	116	175
	<b>871</b>	1,51	91	120	180
	<b>885</b>	1,63	98	126	189
1370 × 510	<b>766</b>	0,52	71	91	139
	<b>783</b>	0,68	75	98	146
	<b>800</b>	0,83	79	103	153
	<b>816</b>	0,99	81	106	159
	<b>837</b>	1,19	85	109	165
	<b>850</b>	1,31	87	113	170
	<b>867</b>	1,47	91	120	180
	<b>884</b>	1,64	97	125	187
	<b>898</b>	1,77	101	130	194

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 54

► For additional size ranges, see next page

## Additional versions

Vertical / horizontal profile constructions opening outwards

✓ Doors with side element and / or transom light (glazing beads on opposite hinge side)

€

188



Frame view 110 mm instead of 70 mm (standard)

Per m

22

**B**

## Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Each

198

### For interior applications

	No.	max. glass dimensions	Per m <sup>2</sup> €
Standard glazing, laminated safety glass 6 mm	<b>033</b>	2250 × 2333 mm	<b>99</b>
Glazing, laminated safety glass 8 mm (standard from RAM height 2710 mm)	<b>525</b>	2600 × 4500 mm	<b>115</b>
Glazing laminated safety glass 10 mm	<b>527</b>	2600 × 4500 mm	<b>158</b>
Glazing laminated safety glass 6 mm with matt plastic film	<b>528</b>	2250 × 2333 mm	<b>155</b>
Glazing single-pane safety glass 8 mm	<b>524</b>	2400 × 4500 mm	<b>178</b>
Glazing single-pane safety glass 10 mm	<b>526</b>	2400 × 4500 mm	<b>239</b>
Aluminium panel	<b>527</b>	1250 × 2500 mm	<b>617</b>
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	<b>514</b>	1250 × 2500 mm	<b>790</b>

### Additional glass versions

See from page 176



### Steel frames for version with transom light

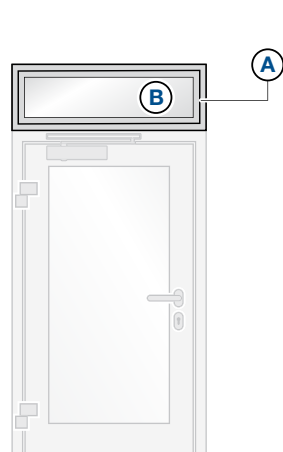
See from page 168

# ES 50 – aluminium

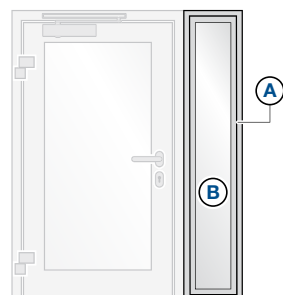
As transom light, side element or fixed glazing



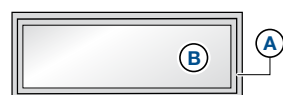
	ES 50
Depth [mm]	50
RAM width (max) [mm]	Unlimited
RAM height (max) [mm]	4500
Approved as	Internal fixed glazing
Optional additional functions	 



Transom light





Side element



Fixed glazing

Door set price =

-  Frame  
 +  Glazing

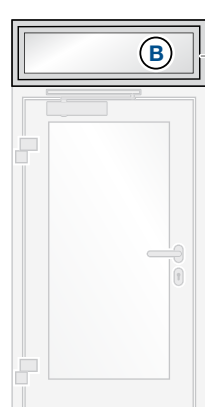
- 1) Minimum calculation surface 0.5 m<sup>2</sup>  
 2) For an overview of available surface finishes, see page 54

► For additional size ranges, see next page

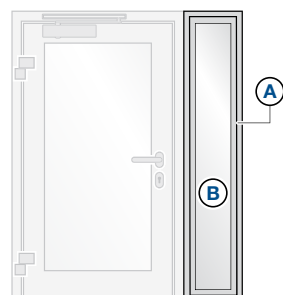
Fixed glazing ES 50									
Ordering sizes (RAM) up to width × up to height			Frame price  ES 50 RAL 9016, E6/EV1		m <sup>2</sup> Glazing area <sup>1)</sup>		Surface coating <sup>2)</sup> Surcharge		
							Preferred colour	RAL to choose	Special colour
1500	×	510	784	0,57			72	92	141
		635	800	0,75			78	102	152
		760	816	0,92			80	104	156
		885	833	1,09			84	108	164
		1040	855	1,31			87	113	170
		1135	868	1,44			91	120	180
		1260	884	1,62			97	125	187
		1395	902	1,81			101	130	194
1645	×	1500	917	1,95			103	133	200
		510	803	0,63			76	99	148
		635	819	0,82			79	103	153
		760	835	1,02			84	108	164
		885	854	1,21			86	112	168
		1040	873	1,45			91	120	180
		1135	886	1,59			97	125	187
		1260	903	1,79			101	130	194
1770	×	1395	921	2,00			104	134	201
		1500	936	2,16			106	139	208
		510	819	0,68			79	103	153
		635	835	0,89			83	107	161
		760	854	1,10			86	112	168
		885	870	1,31			90	118	178
		1040	891	1,56			97	125	187
		1135	903	1,72			101	130	194
1895	×	1260	920	1,93			103	133	200
		1395	939	2,16			106	139	208
		1500	953	2,33			109	142	213
		510	835	0,73			80	104	156
		635	854	0,96			84	108	164
		760	870	1,18			89	116	175
		885	886	1,40			91	120	180
		1040	907	1,68			99	129	193
2020	×	1135	920	1,85			103	133	200
		1260	938	2,08			105	135	205
		1395	955	2,32			109	142	213
		1500	969	2,51			112	146	219
		510	854	0,78			83	107	161
		635	870	1,02			86	112	168
		760	886	1,26			89	116	175
		885	903	1,50			97	125	187
		1040	923	1,80			102	131	196
		1135	938	1,98			105	135	205
		1260	954	2,22			108	141	212
		1395	974	2,48			115	151	226
		1500	986	2,68			120	156	235

# ES 50 – aluminium

As transom light, side element or fixed glazing



Transom light



Side element



Fixed glazing

Door set price =

(A) Frame

+ (B) Glazing

A

## Fixed glazing ES 50

Ordering sizes (RAM) up to width × up to height			Frame price ES 50 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
2145	×	510	870	0,83	87	113	170
		635	886	1,09	91	120	180
		760	903	1,34	99	129	193
		885	920	1,60	104	134	201
		1040	941	1,92	107	140	209
		1135	954	2,11	110	144	217
		1260	971	2,37	120	156	235
		1395	990	2,64	123	158	238
2270	×	1500	1003	2,86	86	112	168
		510	886	0,88	89	116	175
		635	903	1,16	97	125	187
		760	920	1,43	102	131	196
		885	938	1,70	106	139	208
		1040	958	2,03	109	142	213
		1135	971	2,24	116	152	227
		1260	989	2,51	123	158	238
2395	×	1395	1005	2,80	126	164	244
		1500	1020	3,03	87	113	170
		510	903	0,94	94	124	186
		635	920	1,22	99	129	193
		760	938	1,51	104	134	201
		885	954	1,80	108	141	212
		1040	976	2,15	112	146	219
		1135	989	2,37	121	157	236
		1260	1004	2,66	126	164	244
		1395	1023	2,96	130	168	253
		1500	1036	3,21	124	161	241

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 54

► For additional size ranges, see next page

## Additional versions

Vertical / horizontal profile constructions opening outwards

✓ Doors with side element and / or transom light (glazing beads on opposite hinge side)

€

188



Frame view 110 mm instead of 70 mm (standard)

Per m

22

B

## Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!)

Each

198

### For interior applications

	No.	max. glass dimensions	Per m <sup>2</sup> €
Standard glazing, laminated safety glass 6 mm	033	2250 × 2333 mm	99
Glazing, laminated safety glass 8 mm (standard from RAM height 2710 mm)	525	2600 × 4500 mm	115
Glazing laminated safety glass 10 mm	527	2600 × 4500 mm	158
Glazing laminated safety glass 6 mm with matt plastic film	528	2250 × 2333 mm	155
Glazing single-pane safety glass 8 mm	524	2400 × 4500 mm	178
Glazing single-pane safety glass 10 mm	526	2400 × 4500 mm	239
Aluminium panel	527	1250 × 2500 mm	617
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	514	1250 × 2500 mm	790

### Additional glass versions

See from page 176



### Steel frames for version with transom light

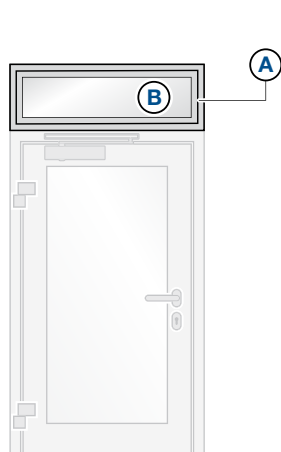
See from page 168

# ES 50 – aluminium

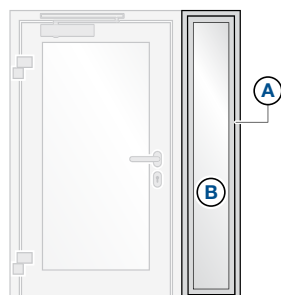
As transom light, side element or fixed glazing



	ES 50
Depth [mm]	50
RAM width (max) [mm]	Unlimited
RAM height (max) [mm]	4500
Approved as	Internal fixed glazing
Optional additional functions	 



Transom light



Side element



Fixed glazing

Door set price =

- (A) Frame  
+ (B) Glazing

Larger RAM in width and height on request.

- 1) Minimum calculation surface 0.5 m<sup>2</sup>  
2) For an overview of available surface finishes, see page 54

Fixed glazing ES 50									
Ordering sizes (RAM) up to width × up to height			Frame price  ES 50 RAL 9016, E6/EV1		m <sup>2</sup> Glazing area <sup>1)</sup>		Surface coating <sup>2)</sup> Surcharge		
							Preferred colour	RAL to choose	Special colour
2500	×	510	918		0,98		89	116	175
		635	935		1,28		97	125	187
		760	951		1,58		102	131	196
		885	967		1,88		106	139	208
		1040	990		2,25		110	144	217
		1135	1002		2,48		116	152	227
		1260	1019		2,78		124	161	241
		1395	1036		3,10		129	167	251
2615	×	1500	1051		3,35		132	171	258
		510	934		1,03		90	118	178
		635	949		1,34		99	129	193
		760	966		1,65		103	133	200
		885	982		1,97		107	140	209
		1040	1004		2,36		116	152	227
		1135	1018		2,60		121	157	236
		1260	1034		2,91		126	164	244
2730	×	1395	1052		3,25		131	170	256
		1500	1066		3,51		137	178	269
		510	947		1,07		94	124	186
		635	965		1,40		101	130	194
		760	981		1,73		105	135	205
		885	1000		2,06		109	142	213
		1040	1020		2,47		121	157	236
		1135	1032		2,71		124	161	241
2845	×	1260	1050		3,04		129	167	251
		1395	1067		3,40		135	177	266
		1500	1083		3,67		140	183	273
		510	964		1,12		98	126	189
		635	980		1,46		103	133	200
		760	999		1,80		106	139	208
		885	1014		2,15		112	146	219
		1040	1035		2,57		123	158	238
3000	×	1135	1049		2,83		127	166	250
		1260	1065		3,18		131	170	256
		1395	1084		3,55		139	180	270
		1500	1096		3,83		143	187	279
		510	984		1,18		99	129	193
		635	1002		1,54		105	135	205
		760	1019		1,91		108	141	212
		885	1035		2,27		116	152	227
		1040	1055		2,72		126	164	244
		1135	1068		2,99		130	168	253
		1260	1086		3,36		137	178	269
		1395	1104		3,75		142	185	276
		1500	1117		4,05		148	193	291



# ES 50 – aluminium

As transom light, side element or fixed glazing



## Additional versions €

Vertical / horizontal profile constructions opening outwards  
 ✓ Doors with side element and / or transom light (glazing beads on opposite hinge side) **188**



Frame view 110 mm instead of 70 mm (standard) Per m **22**

**B**

## Glazing (standard delivery glass / panel separate) Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 56!) Each **198**

### For interior applications

	No.	max. glass dimensions	Per m <sup>2</sup> €
Standard glazing, laminated safety glass 6 mm	033	2250 × 2333 mm	99
Glazing, laminated safety glass 8 mm (standard from RAM height 2710 mm)	525	2600 × 4500 mm	115
Glazing laminated safety glass 10 mm	527	2600 × 4500 mm	158
Glazing laminated safety glass 6 mm with matt plastic film	528	2250 × 2333 mm	155
Glazing single-pane safety glass 8 mm	524	2400 × 4500 mm	178
Glazing single-pane safety glass 10 mm	526	2400 × 4500 mm	239
Aluminium panel	527	1250 × 2500 mm	617
Aluminium glass panel (2 × aluminium sheet, acoustic insulation glass on the inside)	514	1250 × 2500 mm	790

Additional glass versions See from page 176

Steel frames for version with transom light See from page 168

# Steel corner and profile frames

For aluminium hollow profiled section doors without / with transom light, single-leaf and double-leaf

## Material

- Sheet metal, hot galvanized
- Corner frame 2.0 mm thick for brickwork
- Profile frame 2.0 mm thick for brickwork and partition walls
- Primed based on RAL 7035 for subsequent coating on-site, optionally in RAL to choose
- Version with glazing beads on hinge side or **//NEW** with glazing beads on opposite hinge side

## Size range (nominal sizes)

A/RS 100, A/RS 150, ES 50-1:	Min. 535 × 1705 mm	Max. 1430 × 2965 mm
A/RS 200, A/RS 250 ES 50-2:	Min. 1285 × 1705 mm	Max. 2930 × 2965 mm
Doors with transom light / top part		max. 3500 mm height

Corner frame for brickwork



Double-shell profile frame for brickwork and partition walls



## Frame types

- 1-part welded in the mitred area, polished








*Standard*

Corner frame  
Prepared for  
Screw fixing (unplastered brickwork)

Double-shell profile frame  
Prepared for screw fixing

Basic prices €								
BR height up to		2278	2500		2750		3000	
BR width up to	Wall width			With transom light		With transom light		With transom light
1000 mm	Corner frame	1107	1240	1931	1373	1974	1506	2012
	145	1292	1448	2032	1603	2067	1758	2101
	205	1320	1478	2051	1636	2098	1796	2125
	270	1359	1522	2098	1685	2141	1848	2167
1250 mm	330	1459	1634	2195	1810	2245	1984	2281
	Corner frame	1118	1253	2000	1387	2035	1522	2067
	145	1308	1464	2101	1622	2144	1780	2164
	205	1327	1488	2125	1646	2167	1805	2191
1500 mm	270	1382	1547	2167	1714	2218	1879	2249
	330	1494	1673	2287	1853	2337	2032	2353
	Corner frame	1223	1370	2094	1516	2136	1664	2160
	145	1343	1504	2183	1666	2229	1826	2252
1750 mm	205	1370	1535	2210	1699	2256	1863	2272
	270	1428	1600	2261	1771	2315	1943	2323
	330	1522	1704	2353	1886	2419	2069	2435
	Corner frame	1250	1399	2136	1550	2186	1700	2199
2000 mm	145	1359	1522	2226	1685	2275	1848	2291
	205	1386	1552	2249	1718	2299	1885	2315
	270	1448	1621	2303	1796	2353	1969	2366
	330	1541	1725	2400	1910	2458	2095	2485
2250 mm	Corner frame	1266	1418	2411	1569	2469	1721	2485
	145	1393	1561	2501	1729	2562	1895	2562
	205	1436	1609	2527	1781	2593	1953	2593
	270	1494	1673	2582	1853	2640	2032	2644
2500 mm	330	1618	1812	2667	2007	2740	2200	2744
	Corner frame	1285	1439	2442	1593	2461	1748	2531
	145	1416	1586	2547	1756	2612	1926	2644
	205	1459	1634	2582	1810	2644	1984	2644
2750 mm	270	1514	1695	2632	1877	2694	2058	2701
	330	1642	1838	2725	2034	2799	2232	2802
	Corner frame	1301	1457	2461	1612	2481	1769	2547
	145	1440	1612	2632	1785	2667	1959	2701
3000 mm	205	1482	1661	2662	1838	2733	2016	2733
	270	1533	1717	2720	1901	2786	2084	2790
	330	1672	1873	2815	2074	2891	2273	2894
	Corner frame	1301	1457	2461	1612	2481	1769	2547



Basic prices €								
BR height up to		2278	2500		2750		3000	
								
BR width up to	Wall width			With transom light		With transom light		With transom light
2750 mm	Corner frame	1461	1636	2766	1812	2787	1988	2862
	145	1618	1812	2957	2007	2996	2200	3036
	205	1666	1866	2992	2066	3070	2266	3070
	270	1721	1928	3057	2135	3131	2341	3137
	330	1879	2103	3162	2330	3249	2555	3253
2950 mm	Corner frame	1643	1839	3108	2035	3132	2233	3215
	145	1818	2035	3322	2254	3366	2473	3410
	205	1871	2096	3362	2320	3450	2545	3450
	270	1935	2167	3436	2400	3518	2632	3523
	330	2111	2364	3553	2617	3650	2871	3656

#### Additional size ranges and wall widths on request

Accessories for corner and profile frames for brickwork	Surcharge €
Frame prepared for 3rd hinge	86
Prepared for KÜ 480 / each	276
Prepared for electric strike	No surcharge
Prepared for ECO dual locking	220
Prepared for single-leaf reed contact (type Link)	130
Prepared for double-leaf reed contact (type Link)	256
Prepared for single-leaf escape door opener	268
Prepared for single-leaf escape door opener in crossframe	268
Prepared for double-leaf escape door opener in crossframe	529
Prepared for alarm contact element	262
Top frame prepared for ITS 96 N20 (single-leaf)	240
Top frame prepared for ITS 96 GSR (double-leaf)	476
Prepared for Fuhr triple lock	148

► The required accessories from the "Accessories and fittings" chapter must be added to the preparation prices

#### Note on surfaces:

For doors in preferred colour, RAL to choose or special colour, 1.5 × the price for the respective surface must be charged!

#### Example:

	Preferred colour	RAL to choose	Special colour
A / RS 100 (1020 × 2010 mm)	146 €	189 €	284 €
A / RS 100 with steel frame (× 1.5)	219 €	286 €	428 €

# Good reasons to try Hörmann steel tubular frame construction project doors



Particularly narrow door view

## **S-Line system**

**HÖRMANN**

# Good reasons to try Hörmann aluminium tubular frame construction project doors



Up to  
**55 mm**  
wider clear  
passage width

Elegant door view without visible frame face

## Frame without face

\* compared to door version with fascia frame

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# Good reasons to try Hörmann steel loft doors



Industrial style for living areas and workspaces

**Large glazings with  
high-quality steel profiles**

**HÖRMANN**

# Accessories and fittings

for aluminium tubular frame parts

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# Glass and panel infills

For aluminium fire-rated doors

F30

F60

F90

Item	Article		Glass number	Max. glass dimensions in mm	Infill thickness in mm	dB value Glass / panel	Minimum calculation surface	Per m²
Panel infills								
Surcharge per m² panel surface in €								
Fire protection panels								
1	F30	2 × aluminium sheets, interior fire-proof core	502	1200 × 2500	29	–	0.5 m²	771
2			506	1400 × 3000	34	–	0.5 m²	1120
3	F60	2 × aluminium sheets, interior fire-proof core	543	1200 × 2500	44	–	0.5 m²	1069
4	F90	2 × aluminium sheets, interior fire-proof core	541	1200 × 2500	44	–	0.5 m²	1069
Acoustic-rated panels								
5	F30	Aluminium glass panel	513	1400 × 2800	38	45	0.5 m²	2182
Insulated acoustic-rated panel for external applications								
6	F30	Aluminium glass panel (thermal insulation) U-value 1.1	523	1200 × 2500	45	40	0.5 m²	3518
	F30	Aluminium glass panel (thermal insulation) U-value 3.0	524	1200 × 2500	45	40	0.5 m²	3437
Glass infills								
Surcharge per m² glass surface in €								
Fire-proof glass								
7	F30	Standard glazing	893	1400 × 2700	23	42	0.5 m²	836
8		With matt PVB plastic film	687	1000 × 2500	30	43	0.5 m²	1156
9	F60	Standard glazing	884	1400 × 2820	33	44	0.5 m²	1592
10		With matt PVB plastic film	793	1200 × 2200	37	44	0.5 m²	2630
11	F90	Standard glazing	894	1500 × 3000	37	46	0.5 m²	2059
12		With matt PVB plastic film	795	1200 × 2200	43	45	0.5 m²	4246
Insulated fire-proof glass for external applications								
13	F30	Insulated glass (standard glass in external applications), U-value 1.1	407	1300 × 2800	44	41	0.5 m²	1536
14		Insulated glass with matt PVB plastic film	555	1300 × 2800	44	42	0.5 m²	2111
RC Glass with security characteristics								
15	F30	As P4A	168	1300 × 2800	31	43	0.5 m²	1279
16		As P5A	169	1300 × 2800	31	43	0.5 m²	1311
17	F30	As P5A with acoustic insulation	170	1300 × 2800	34	45	0.5 m²	1599
18	F60	As P4A	792	1200 × 2200	37	44	0.5 m²	2228
19		As P5A	725	1200 × 2200	38	44	0.5 m²	2307
20	F90	As P4A	794	1200 × 2200	43	45	0.5 m²	2682
21		As P5A	726	1200 × 2200	44	45	0.5 m²	2757
Insulated glass with security characteristics								
22	F30	Insulated glass as P4A U-value 1.3	406	1200 × 2500	45	42	0.5 m²	1855
23		Insulated glass as P4A with matt PVB plastic film, U-value 1.0	759	1000 × 2500	45	41	0.5 m²	2405
24		Insulated glass as P5A U-value 1.2	498	1200 × 2200	46	42	0.5 m²	2405
Notice: equipment for break-in-resistant doors acc. to DIN EN 1627 (RC 2 / RC 3), see page 180								
Insulated acoustic-rated glass								
25	F30	Type 2-S (with matt plastic film)	708	1400 × 2800	40	45	0.5 m²	2307
26	F30	Vitrafire	161	1300 × 2800	31	45	0.5 m²	1371
27	F60	F1-60	796	1400 × 2820	38	45	0.5 m²	1738
TRAV Glass as anti-fall glazing (DIN 18008)								
28	F30	Glass for TRAV application	714	1400 × 2500	31	42	0.5 m²	1322
29			753	1400 × 3300	31	42	0.5 m²	1513
30	F60	Glass for TRAV application	722	1400 × 2500	38	43	0.5 m²	2087
31			750	1400 × 3300	38	43	0.5 m²	2275
32	F90	Glass for TRAV application	716	1400 × 2500	43	–	0.5 m²	2541
33			756	1400 × 3300	43	45	0.5 m²	2732



# Acoustic insulation for elements with glass

For aluminium fire-rated doors

F30

F60

F90

Acoustic insulation requirements		Required features	
Product	Acoustic value $R_{w,P}$ (test value)	Bottom edge	Acoustic value (dB value) glass / panel
T30 / F30			
HE 311	37 dB	Retractable bottom seal	≥ 40 dB
	38 dB		≥ 45 dB
	42 dB *		≥ 45 dB
HE 321	35 dB		≥ 40 dB
	40 dB		≥ 45 dB
	42 dB *		≥ 45 dB
HE 311	40 dB	Threshold with thermal break	≥ 40 dB
HE 321	37 dB		≥ 40 dB
HE 331	37 dB	-	≥ 39 dB
	43 dB		≥ 45 dB
T60/F60			
HE 611	37 dB	Retractable bottom seal	≥ 41 dB
	43 dB		≥ 45 dB
HE 621	43 dB		≥ 45 dB
HE 631	39 dB	-	≥ 41 dB
	43 dB		≥ 45 dB
T90 / F90			
HE 911	40 dB	Retractable bottom seal	≥ 44 dB
	42 dB		≥ 45 dB
HE 921	38 dB		≥ 44 dB
	42 dB		≥ 45 dB
HE 931	43 dB	-	≥ 44 dB
Bottom profile – acoustic insulation			
⚠ ! Only for use with the corresponding glass / panel ≥ 45 dB and Retractable bottom seal			
Acoustic insulation – bottom profile to achieve 42 dB with HL 311 / HL 321			Per m 187

## Notice:

The acoustic values listed in these tables are  $R_{w,P}$  values (measured values).

The safety factor acc. to DIN 4109 when fitted ( $R_{w,R}$ ) must be taken into account as follows:

- For doors:  $R_{w,R} = R_{w,P}$  minus 5 dB
- For fixed glazing:  $R_{w,R} = R_{w,P}$  minus 2 dB
- With the  $R_{w,R}$  value, flanking sound transmission through the components is taken into account.

## Notice on glass and panel infills:

- Glass with PVB plastic film is suitable for use at sites exposed to UV radiation.
- The above-named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

# Glazings and panels

For smoke-tight door assemblies – aluminium

RS

Item	Glass type	Glass number	Max. glass dimensions in mm	Infill thickness in mm	U <sub>G</sub> -value W/(m²·K)	dB value Glass / panel	Minimum calculation surface	Per m² of glass	
A / RS 100, A / RS 200, A / RS 300					Surcharge per m² panel surface in €				
Panel infills									
1	Aluminium panel	517	1250 × 2500	14		–	0.5 m²	617	
2	Aluminium glass panel, insulated glass with aluminium sheet on both sides	511	1250 × 2500	32	1,1	36	0.5 m²	766	
3	Aluminium glass panel acoustic insulation Insulated glass with aluminium sheet on both sides	509	1250 × 2500	39	1,1	47	0.5 m²	1044	
Glass infills									
4	Insulated glass made of:	2 × laminated safety glass 6 mm (standard)	226	1500 × 2500	24	3,0	33	0.5 m²	305
5		2 × laminated safety glass 6 mm	288	1500 × 2500	28	1,1	36	0.5 m²	323
6		2 × laminated safety glass 8 mm	091	2600 × 4500	32	1,1	37	0.5 m²	376
7		Laminated safety glass A1 / P2A	090	1500 × 2500	31	1,1	36	0.5 m²	380
8		Laminated safety glass A3 / P4A	625	1500 × 2500	32	1,1	40	0.5 m²	441
9		P5A	727	2600 × 4500	34	1,1	40	0.5 m²	529
10		2 × single-pane safety glass 8 mm	095	2500 × 5000	32	1,1	37	0.5 m²	660
11	Insulated acoustic- rated glass	Termo-Bit Silence 30 / 43	326	1500 × 2500	30	1,1	43	0.5 m²	475
12		Termo-Bit Silence 36 / 47	303	2600 × 4500	36	1,1	47	0.5 m²	602
A / RS 150, A / RS 250, A / RS 350, ES 50					Surcharge per m² panel surface in €				
Panel infills									
13	Aluminium panel	527	1250 × 2500	14		–	0.5 m²	617	
14	Aluminium glass panel acoustic insulation Insulated glass with aluminium sheet on both sides	514	1250 × 2500	44		43	0.5 m²	790	
Glass infills									
15	Laminated safety glass	6 mm (standard)	033	2250 × 2333	6		30	0.5 m²	99
16		8 mm	525	2600 × 4500	8		35	0.5 m²	115
17		10 mm	527	2600 × 4500	10		35	0.5 m²	158
18		6 mm with matt plastic film	528	2250 × 2333	6		30	0.5 m²	155
19		P2A (A1)	698	2600 × 4500	9		34	0.5 m²	148
20		P4A	064	2600 × 4500	10		34	0.5 m²	209
21		P5A	791	6000 × 3210	10		34	0.5 m²	325
22	One-way laminated plate glass	693	1400 × 2500	6		30	0.5 m²	1186	
23	Single-pane safety glass	6 mm	032	2100 × 3660	6		32	0.5 m²	133
24		8 mm	524	2400 × 4500	8		34	0.5 m²	178
25		10 mm	526	2400 × 4500	10		35	0.5 m²	239
26		Satinato 6 mm	080	1800 × 3100	6		32	0.5 m²	301
27	Pyroclear	G30 6 mm	787	1400 × 3000	6		32	0.5 m²	456
28		G30 8 mm	788	1600 × 3000	8		33	0.5 m²	525
29	Insulated glass made of:	2 × laminated safety glass 6 mm	290	1500 × 2500	24	3,0	33	0.5 m²	305
30	Insulated acoustic- rated glass	Laminated safety glass 44.1	575	2600 × 4500	8		37	0.5 m²	259
31		Laminated safety glass 1010.2	059	2250 × 3210	22		43	0.5 m²	452
Glass for anti-fall glazing according to DIN 18008									On request

## Notice:

- Glass with PVB plastic film is suitable for use at sites exposed to UV radiation.
- The above-named surcharges are only valid in combination with a door order. Prices for single delivery on request.

# Acoustic insulation for elements with glass

For internal doors and smoke-tight door assemblies – aluminium

RS

Acoustic insulation requirements		Required features	
Product	Acoustic value R <sub>w,P</sub> (test value)	Bottom edge	Acoustic value (dB value) glass / panel
Internal doors, smoke-tight doors without thermal insulation			
ES 50 A / RS 150 Single-leaf	30 dB	Retractable bottom seal	≥ 30 dB
	31 dB		≥ 35 dB
	32 dB		≥ 37 dB
	37 dB		≥ 43 dB
ES 50 A / RS 250 Double-leaf	30 dB	Retractable bottom seal	≥ 30 dB
	33 dB		≥ 35 dB
	34 dB		≥ 37 dB
	38 dB		≥ 43 dB
ES 50 A / RS 350 Fixed glazing, top part, side element	32 dB	-	≥ 30 dB
	34 dB		≥ 35 dB
	37 dB		≥ 37 dB
	42 dB		≥ 43 dB
Internal doors, smoke-tight doors with thermal insulation			
A / RS 100 Single-leaf	33 dB	Retractable bottom seal	≥ 35 dB
	37 dB		≥ 40 dB
	38 dB		≥ 46 dB
A / RS 200 Double-leaf	33 dB	Retractable bottom seal	≥ 35 dB
	35 dB		≥ 40 dB
	40 dB		≥ 46 dB
A / RS 300 Fixed glazing, top part, side element	34 dB	-	≥ 35 dB
	37 dB		≥ 39 dB
	45 dB		≥ 46 dB

## Notice:

The acoustic values listed in these tables are  $R_{w,P}$  values (measured values).

The safety factor acc. to DIN 4109 when fitted ( $R_{w,R}$ ) must be taken into account as follows:

- For doors:  $R_{w,R} = R_{w,P}$  minus 5 dB
- For fixed glazing:  $R_{w,R} = R_{w,P}$  minus 2 dB
- With the  $R_{w,R}$  value, flanking sound transmission through the components is taken into account.

Good reasons to try Hörmann  
steel and aluminium tubular frame  
construction project doors



Maximum clear passage width

**Steel profile frame**

\* compared to door version with fascia frame

**HÖRMANN**

# Bottom seals / door bottom edges

For aluminium fire-rated doors and smoke-tight door assemblies

T30

T60


T90

RS

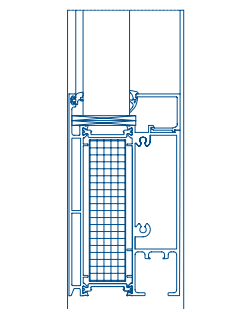
## Notes:

- Fast-track programme
- Standard programme

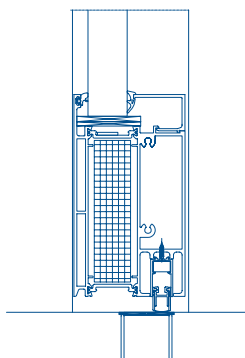
The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

Bottom seals / door bottom edges				Surcharge €				
RS				For smoke-tight version acc. to DIN 18095 / DIN EN 1634-3, optional acoustic insulation acc. DIN EN ISO 717				
1	Retractable bottom seal • For fitting on a smooth, level floor	Single-leaf	175	●	○	●	●	
		Double-leaf	350	●	○	●	●	
	Delayed Retractable bottom seal • For fitting on a smooth, level floor • Suitable with different pressure ratios (loading houses)	Single-leaf	325	●	●	–	–	
		Double-leaf	150	–	–	●	●	
	Floor covering transition profile flat stainless steel material • (e.g. for fitting on tiles or carpeted floor)	Single-leaf	650	●	●	–	–	
		Double-leaf	298	–	–	●	●	
	Floor covering transition profile flat aluminium material • As substructure for stainless steel flat material	Single-leaf	36	●	○	●	●	
		Double-leaf	72	●	○	●	●	
	2	Threshold, with thermal break (for water tightness under heavy rain of external doors)	Single-leaf	112	○	○	–	–
				–63	–	–	–	○
Double-leaf			223	○	○	–	–	
Bottom spacer profile, 80 mm wide •  Construction of max. 200 mm possible!		T30		–127	–	–	–	○
			Profile height 25 mm	160	○	–	–	–
			Profile height 50 mm	183	○	–	–	–
			Profile height 100 mm	228	○	–	–	–
		T90	Profile height 150 mm	290	○	–	–	–
			Profile height 25 mm	225	–	○	–	–
			Profile height 50 mm	267	–	○	–	–
			Profile height 100 mm	308	–	○	–	–
		RS Insulated	Profile height 150 mm	365	–	○	–	–
			Profile height 25 mm	108	–	–	–	○
			Profile height 50 mm	130	–	–	–	○
			Profile height 100 mm	163	–	–	–	○
		Profile height 150 mm	212	–	–	–	○	
		Stainless steel cover strip, 80 × 1.2 mm, for bottom spacer profile		Per m	51	○	○	–

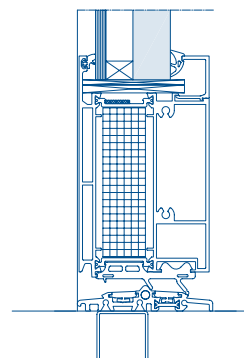
Prepared for Retractable bottom seal  
(as standard for fire protection)



Retractable bottom seal  
(for smoke protection)



Threshold with thermal break (for water-tightness  
under heavy rain on external doors)



# Security features RC 2 / RC 3 acc. to DIN EN 1627

T30

T60

T90

RS

## For aluminium fire-rated doors and smoke-tight door assemblies

### Notes:

Security features RC 2 / RC 3 not available for non-insulated smoke-tight doors!

For fixed glazings, transom lights and side elements, only the price for the respective break-in-resistant glass per m² must be calculated.

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

For the maximum door set dimensions, rails may be required (max. glass dimensions see page 176 et seq.).

⚠ All prices without lever handle, lever / knob handle set!

### Break-in resistance =

Ⓐ Security features and glass + Ⓑ Locks

		T30, A/RS x00	T60/T90	T30, A/RS x00 With frame without face	T30, A/RS x00 With steel frame
Aluminium	Size range RC 2				
	Single-leaf doors max.	1500 × 3000 mm	1500 × 2800 mm	1415 × 2500 mm	1430 × 2965 mm
	Double-leaf doors max.	3000 × 3000 mm	3000 × 2800 mm	2810 × 2500 mm	2930 × 2965 mm
	Size range RC 3				
	Single-leaf doors max.	1500 × 2500 mm	1500 × 2500 mm	1415 × 2500 mm	1430 × 2500 mm

Ⓐ	RC 2	Security features without escape door function	Surcharges	T30	T60	T90	RS
1		Standard equipment RC 2	Per door	92			
2		Plus RC 2 glass (P4A)	Per m²	1462	2228	2682	–
2.1		Plus RC 2 insulated glass (P4A for external applications)		1855	–	–	441
	RC 3	Security features without escape door function	Surcharges	T30	T60	T90	RS
3		Standard equipment RC 3 <sup>1)</sup>	Per door	120			
4		Plus RC 3 glass (P5A) and fire-proof material	Per m²	1649	2457	2906	–
5		Plus RC 3 insulated glass (P5A) including material for glass rebate		2555	–	–	640

Ⓑ	Locks – multiple-point locking <sup>2)</sup>						
RC 2	RC 3	Break-in resistance equipment RC 2 and RC 3 (no escape door function)					
Single- and double-leaf doors							Surcharge €
6		Multiple-point lock GU Secury type DR (3-point, mechanical locking) ✓ For single-leaf and double-leaf doors					606
7		Multiple-point lock GU Secury A4 (S5) Automatic (5-point, mechanically self-locking) ✓ For single-leaf and double-leaf doors					976

1) At least three-part hinges or roller hinges must be taken into account for doors opening outwards.

2) Locks with automatic multiple-point locking may not be combined with electric strikes.

# Security features RC 2 / RC 3 acc. to DIN EN 1627 including escape door function

For aluminium fire-rated doors and smoke-tight door assemblies

T30

T60

T90

RS







Break-in resistance =

Ⓐ Security features and glass + Ⓑ Locks + Ⓒ Break-in resistant fittings

	T30, A/RS x00	T60/T90	T30, A/RS x00 With frame without face	T30, A/RS x00 With steel frame
<b>Size range RC 2 and escape door function acc. to DIN EN 179/1125</b>				
<b>Aluminium</b>				
<b>Single-leaf doors max.</b>	1500 × 2500 mm	1500 × 2500 mm	1415 × 2500 mm	1430 × 2500 mm
<b>Double-leaf doors max.</b>	3000 × 2500 mm	3000 × 2500 mm	2810 × 2500 mm	2930 × 2500 mm
<b>Size range RC 3 and escape door function acc. to DIN EN 179/1125</b>				
<b>Single-leaf doors max.</b>	On request	–	On request	On request

Ⓐ	RC 2	Security features including escape door function	Surcharges	T30	T60	T90	RS
⚠ Doors with side element and / or rails only on request!							
1		Standard equipment RC 2 anti-panic	Per door	120			
2		Plus RC 2 glass (P4A) and fire-proof material		1612	2377	2832	–
2.1		Plus RC 2 insulated glass with fire-proof material (P4A for external applications)	Per m²	2004	–	–	–
2.2		Plus RC 2 glass (P6B) including material for glass rebate		–	–	–	1178

Ⓑ	RC 2	Escape doors according to DIN EN 179 / DIN EN 1125 and in combination with break-in resistance equipment RC 2	Surcharge €
<b>Single-leaf Doors</b>			
3		BKS lock Secury 1910, change-over function B for lever handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 1050 mm RAM width	1148
4		BKS lock Secury 1916 with lever / knob function E for lever / knob handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 1050 mm RAM width	953
<b>Double-leaf Doors</b>			
Half anti-panic			
5		BKS lock Secury 1910, change-over function B for lever handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width	1148
6		BKS lock Secury 1916 with lever / knob function E for lever / knob handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width	953
Anti-panic function			
7		BKS lock Secury 1911, change-over function B for lever handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width	1996
8		BKS lock Secury 1919 with lever / knob function E for lever / knob handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width	1821
1) Locks with automatic multiple-point locking may not be combined with electric strikes, optionally select A opener			

C Break-in resistant fittings		Surcharge €
Break-in-resistant lever handle and lever / knob handle sets for RC 2 in combination with escape doors acc. to DIN EN 179		
9	 Fire-rated lever handle set type Premium 8830 A FS, including PC rose escutcheon	Stainless steel 426
10	 Fire-rated lever handle set type Premium 8999 A FS, including PC rose escutcheon	Aluminium 306
		Stainless steel 426
11	 Fire-rated lever / knob handle set type Premium 8830 A FS with knob 3548 VO, including PC rose escutcheon	Stainless steel 376
12	 Fire-rated lever / knob handle set type Premium 8999 A FS with knob 3548 VO, including PC rose escutcheon	Aluminium 292
		Stainless steel 376
Push bars, suitable for break-in resistance equipment RC 2 in combination with escape doors acc. to DIN EN 1125		
13	 Push bar type B-7401 (without counter lever / knob) ▶ Anti-panic lock required, not possible in conjunction with SVP locks, can be combined with lever handle, knob or push handle	Aluminium 497
		Stainless steel 719
14	 Touch bar B-7441 (without counter lever / knob) ▶ Not possible in conjunction with SVP locks, can be combined with lever handle, knob or push handle	Aluminium 792
		Stainless steel 1233

## Accessories and fittings

**T30    T60    T90    RS**

**Notice:**  
Lever handle and lever / knob handle sets are included separately

- 

182



# Lever / knob handle sets

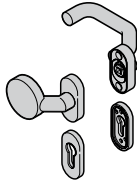

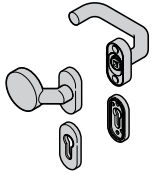

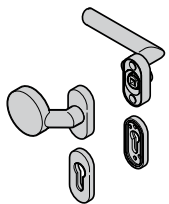

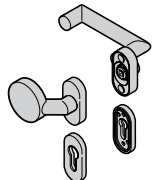

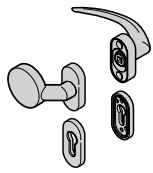

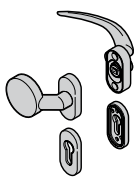

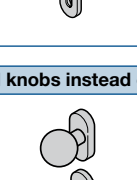

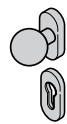
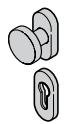
For aluminium fire-rated doors and smoke-tight door assemblies

T30

T60

T90

RS

Lever / knob handle sets (lever / knob handle set with button, including PC oval rose escutcheons)						Surcharge €		T30	T60 / T90	RS / ES 50	RS insulated
						ECONomy	FSB – design				
1		Type D115 / knob K117 Type 1070 / knob 0846		Aluminium Stainless steel	Type D 115	Type 1070					
					199	377	●	○	●	●	
					258	584	●	○	●	●	
2		Type D116 / knob K117		Aluminium Stainless steel	Type D 116						
					147	–	●	○	●	●	
					216	–	●	○	●	●	
3		Type D315 / knob K117 Type 1076 / knob 0846 ⚠ Not suitable for escape doors acc. to DIN EN 179		Aluminium Stainless steel	Type D 315	Type 1076					
					190	376	○	○	○	○	
					247	593	○	○	○	○	
4		Type D335 / knob K117 Type 1016 / knob 0846		Aluminium Stainless steel	Type D 335	Type 1016					
					206	390	●	○	●	●	
					261	629	●	○	●	●	
5		Type D410 / knob K117		Aluminium Stainless steel	Type D 410						
					166	–	○	○	○	○	
					221	–	○	○	○	○	
6		Type D415 / knob K117 Type 1053 / knob 0846		Aluminium Stainless steel	Type D 415	Type 1023 / 1053					
					190	378	●	○	●	●	
					251	629	●	○	●	●	
6		Type 1023 / knob 0846 ⚠ Not suitable for escape doors acc. to DIN EN 179									
Additional knobs instead of standard knob FSB 0846						€					
7				Aluminium  Stainless steel	FSB – design						
					No surcharge						



Lever handles labelled with this symbol are suited both for escape doors acc. to DIN EN 179 as well as doors without escape door function. Please state desired function on order!

# Push bars / touch bars according to DIN EN 1125 as well as push handles


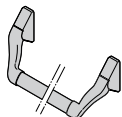
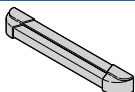


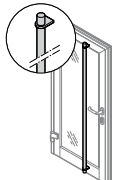
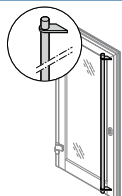
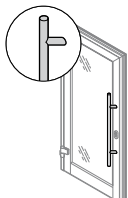
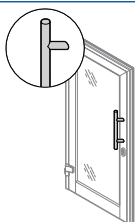
T30

T60

T90

RS

For aluminium fire-rated doors and smoke-tight door assemblies

Push bars, suitable for escape doors acc. to DIN EN 1125						Surcharge €	T30	T60 / T90	RS / ES 50	RS insulated
1		Push bar type B-7401 (without counter lever / knob) ▶ Anti-panic lock required ▶ Not possible in combination with SVP locks ▶ Can be combined with lever handle, knob or push handle	Aluminium	497	●	○	●	●		
			Stainless steel	719	●	○	●	●		
2		Touch bar B-7441 (without counter lever / knob) ▶ Not possible in combination with SVP locks ▶ Can be combined with lever handle, knob or push handle	Aluminium	792	○	○	○	○		
			Stainless steel	1233	○	○	○	○		
//NEW Hörmann escape door monitor										
3		Hörmann escape door monitor, prepared for profile cylinder, battery-operated, including profile half cylinder, lever handle version, silver grey RAL 7001 with Hörmann label		1120	●	○	●	●		
//NEW Escape door monitor push bar										
4		Hörmann escape door monitor, prepared for profile cylinder, battery-operated, including profile half cylinder, push bar version, silver grey RAL 7001 with Hörmann label		1086	●	○	●	●		
Stainless steel push handles							Surcharge €			
Item	Image	Article								
5		G 810, stainless steel push bar with straight support brackets, for vertical fitting. • Height ≤ 2600 mm with 2 support brackets ▶ Not possible in combination with operators!	Up to 2600 mm	670	○	–	○	○		
6		G 75-2, stainless steel push bar with angled support brackets, for vertical fitting • Height ≤ 2600 mm with 2 support brackets • Height 2601 – 3000 mm with 3 support brackets	Up to 2600 mm	724	○	–	○	○		
			Up to 3000 mm	835	○	–	○	○		
7		G 38-2, stainless steel handle with 2 angled support brackets, for vertical fitting.	Length 600 mm	213	○	–	○	○		
8		G 14-2, stainless steel handle with 2 angled support brackets, for vertical fitting.	Length 210 mm	213	○	–	○	○		
Additional push handles / push bars										
On request										

Operators for fire-rated doors

See from page 208

- Fast-track programme
- Standard programme

# Finger trap protection, door stops




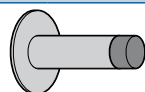

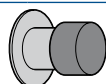
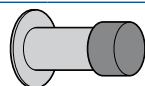

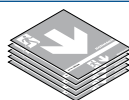
For aluminium fire-rated doors and smoke-tight door assemblies

T30

T60

T90

RS

Finger trap protection for doors without operator							€
Finger trap protection on one side, for inside use							No. 25
1	Finger trap protection, anodised silver, cloth in black						444
2	Finger trap protection RAL 9016, RAL 7016 or anodised stainless steel, cloth in black		Standard length 1925 mm		Each		493
3	Finger trap protection, RAL to choose, cloth in black						553
4	Finger trap protection, anodised silver, cloth in black						313
5	Finger trap protection RAL 9016, RAL 7016 or anodised stainless steel, cloth in black				Per metre		344
6	Finger trap protection, RAL to choose, cloth in black						405
Finger trap protection, on one side, for version with guide roller, for hinge side only							No. BO-23
7	Finger trap protection, two-part, anodised silver		Standard length 1950 mm		Each		287
8	Finger trap protection, 2-part, RAL 9016		(to cut to size)				322
9	Finger trap protection, anodised silver				Per metre		198
10	Finger trap protection RAL 9016						221
Finger trap protection, on one side, for doors with outside application							No. 26
11	Finger trap protection, anodised silver, cloth in Anthracite						572
12	Finger trap protection, RAL 9016, RAL 7016 or anodised stainless steel, cloth in Anthracite		Standard length 1925 mm		Each		628
13	Finger trap protection, RAL to choose, cloth in Anthracite						689
14	Finger trap protection, anodised silver, cloth in Anthracite						399
15	Finger trap protection RAL 9016, RAL 7016 or anodised stainless steel, cloth in Anthracite				Per metre		436
16	Finger trap protection, RAL to choose, cloth in Anthracite						497
17	Hörmann mechanical hold-open device with 60 mm travel						175
Finger trap protection for automatic doors acc. to EN 16005							See page 214
Operators for fire-rated doors							See from page 208
		Type	Dimensions		€		
Mechanical hold-open device							
	Silver-coloured		Stroke 60 mm		Each	100	
<b>Notice:</b> Hold-open devices only possible for doors without fire and smoke protection requirement!							
Door stops for floor fitting							
	Aluminium	FSB 38 3881	Ø 45 mm / height 34 mm		Each	35	
	Stainless steel				Each	56	
	Stainless steel	BS 65	Ø 65 mm / height 22 mm		Each	33	
Door stops for wall fitting							
	Stainless steel	WS 82	Ø 19 mm / 50 mm	Length 82 mm	Each	38	
	Stainless steel	WS 96	Ø 24 mm / 45 mm	Length 96 mm	Each	38	
	Stainless steel	WS 46 *	Ø 33 mm / 49 mm	Height 46 mm	Each	33	
	Stainless steel	WS 76 *	Ø 33 mm / 49 mm	Height 76 mm	Each	37	
Accessories							€
	Door label set "Push / Pull"			Set with 5 pairs of stickers		13,10	
	Escape route sticker set Each sticker contains two separate adhesive areas for door leaf and push bar / touch bar			Set with 5 stickers		15,40	

# Hinge systems

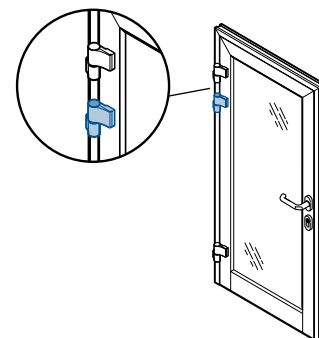
For aluminium fire-rated doors and smoke-tight door assemblies



T30

**HE 3 x1, A / RS x00, A / RS x50, ES 50:**

**Standard version** (included in the price)  
With two 3-way adjustable hinges. Surface finish EV 1, 2-part version, pivot point 20 mm.



## Notes:

Optional 3rd hinge at a surcharge.

Three hinges (top hinge pair) must be taken into account when using operators!

T30

RS

## Surcharges per hinge €

EV1

RAL colours  
Special colours

Stainless steel look

## 3-way adjustable hinge

Standard hinge, 2-part



Standard

62

86

Standard hinge, 2-part, as an additional 3rd hinge

89

152

175

3-part hinge, optional



84

146

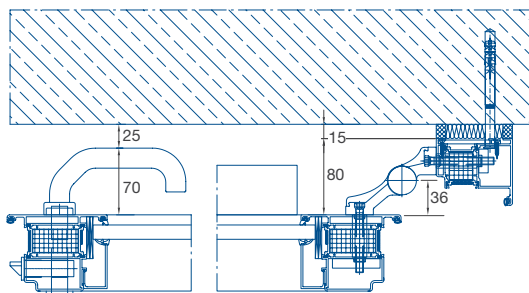
169

3-part hinge, optional, as additional 3rd hinge

172

236

259



Surcharge for 3-way adjustable hinge with  
36 mm pivot point for 90° opening in the  
passage area

per hinge

20

## Notice:

For hinges with a 36 mm pivot point, a 90° opening in the passage area is provided.

## Surcharges per hinge €

Stainless steel

RAL colours  
Special colours

## Hörmann guide roller HRB \*

Hörmann guide roller HRB, pivot point 17 mm



175

207

Hörmann guide roller HRB, pivot point 17 mm, as additional  
3rd hinge

266

296



Hörmann guide roller HRB for doors with  
steel frame  
X 3rd hinge not possible



175

207

\* For vertical/horizontal profile constructions opening outwards (glazing beads on the opposite hinge side), a surcharge of €60 per guide roller should be taken into account!

# Hinge systems

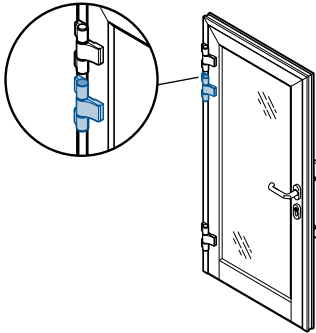
For aluminium fire-rated doors

T60

T90

HE 6 × 1, HE 9 × 1:

**Standard version** (included in the price)  
With 3 door hinges (Dr. Hahn), three-way adjustable. Surface finish EV 1,  
3-part version, pivot point 20 mm.



T60

T90

## Surcharges per hinge €

EV1

RAL colours  
Special colours

Stainless steel look

### 3-way adjustable hinge

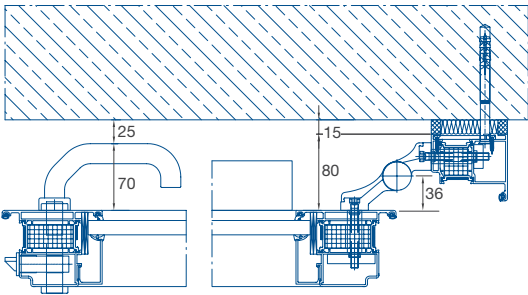
Standard hinge, 3-part



Standard

62

86



Surcharge for 3-way adjustable hinge with  
36 mm pivot point for 90° opening in the  
passage area

per hinge

20

#### Notice:

For hinges with a 36 mm pivot point, a 90° opening in the passage area is provided.

## Surcharges per hinge €

Stainless steel

RAL colours  
Special colours

### Hörmann guide roller HRB \*

Hörmann guide roller HRB, pivot point 17 mm  
⚠ Maximum leaf weight: 220 kg!



91

124

\* For vertical/horizontal profile constructions opening outwards (glazing beads on the opposite hinge side), a surcharge of €60 per guide roller should be taken into account!

# Lock systems – single-point locking

For aluminium fire-rated doors and smoke-tight door assemblies

T30

T60

T90

RS

## Notes:

- Fast-track programme
- Standard programme

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

⚠ All prices without lever handle, lever / knob handle set!




T30	T60 / T90	RS / ES 50	RS insulated
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## Locks – single-point locking



### Escape doors acc. to DIN EN 179 / DIN EN 1125

Single-leaf Doors		Surcharge €			
1	BKS lock 1820, change-over function B for lever handle sets	298	●	○	●
2	BKS lock 1820, change-over function B for lever handle sets with anti-panic function inwards ✗ Not suitable according to DIN EN 179 / DIN EN 1125	372	○	○	○
3	BKS lock 1824, passage function D for lever handle sets	227	●	○	●
4	BKS lock 1824, passage function D for lever handle sets with anti-panic function inwards ✗ Not suitable according to DIN EN 179 / DIN EN 1125	346	○	○	○
5	BKS lock 1826, lever / knob function E for lever / knob handle sets	144	●	○	●
6	BKS lock 1910, change-over function B for lever handle sets, mechanically self-locking	423	○	○	○
7	BKS lock 1916, lever / knob function E for lever / knob handle sets, mechanically self-locking	355	○	○	○
8	BKS lock 1970, forced closure function C for lever handle sets, including connection cable, self-locking, outside lever handle that can be electrically connected	1674	○	○	○

Double-leaf Doors		Surcharge €					
Half anti-panic							
9	BKS lock 1820, change-over function B for lever handle sets	298	●	○	●	●	
10	BKS lock 1824, passage function D for lever handle sets	227	●	○	●	●	
11	BKS lock 1826, lever / knob function E for lever / knob handle sets	144	●	○	●	●	
Anti-panic function							
	12	BKS lock 1821, change-over function B for lever handle sets, incl. leaf communicator ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	729	●	○	●	●
	13	BKS lock 1825, passage function D for lever handle sets, incl. leaf communicator ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	560	●	○	●	●
	14	BKS lock 1827 with lever / knob function E, for lever / knob handle sets, incl. leaf communicator ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	565	●	○	●	●
	15	BKS lock 1911, change-over function B for lever handle sets, mechanically self-locking	1147	○	○	○	○
	16	BKS lock 1917, lever / knob function E for lever / knob handle sets, mechanically self-locking	1058	○	○	○	○
	17	BKS lock 1971, forced closure function C for lever handle sets, including connection cable, self-locking, outside lever handle that can be electrically connected	3166	○	○	○	○

Self-locking locks (suitable for escape doors acc. to DIN EN 179 / 1125)		Surcharge €			
Single-leaf Doors		Surcharge €			
18	SVP 2000F, automatic door opener, self-locking, incl. connection cable SVP-A1100 and concealed electro duct (for lever / knob handle sets, incl. Power Reserve module) ✗ Not possible with long escutcheon handle set ✓ Touch bar or anti-panic push bar possible ⚠ If applicable, a smoke detector may be required ⚠ For fire-rated doors, Motor lock control SVP-S 4X DCW required	2118	●	○	●
19	SVP 4000, mechanically self-locking, electrical monitoring, incl. connection cable SVP-A1100 and concealed electro duct (for lever / knob handle sets, long escutcheon handle set) ✗ Not possible with touch bar or anti-panic push bar	1378	○	○	○
20	SVP 5000, mechanically self-locking (for lever / knob handle sets, long escutcheon handle set possible) ✗ Not possible with touch bar or anti-panic push bar	532	○	○	○
21	SVP 6000, mechanically self-locking, electrical monitoring, incl. connection cable SVP-A1100 and concealed electro duct (for lever handle sets, long escutcheon handle set possible) ✗ Not possible with touch bar or anti-panic push bar	1625	●	○	●
22	Motor lock control SVP-S 42 DCW (circuit board for fitting in control box)	1168	○	○	○
23	Motor lock control SVP-S 44 DCW (circuit board in plastic housing)	1685	○	○	○
24	Power reserve module SVP-PR12	279	○	○	○

1) For doors with <2200 mm RAM (width) the anti-panic function is only possible with ECO dual locking (except for A / RSx50 and ES50).

Lever handles and lever / knob handle sets according to DIN EN 179

See page 182

Push bar / touch bar acc. to DIN EN 1125

See page 184

# Lock systems – multiple-point locking

For aluminium fire-rated doors and smoke-tight door assemblies

T30

T60

T90

RS

## Notes:

- Fast-track programme
- Standard programme

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

⚠ All prices without lever handle, lever / knob handle set!



T30

T60 / T90

RS / ES 50

RS insulated

## Locks – multiple-point locking <sup>2)</sup>

RC 2 RC 3

Break-in resistance equipment RC 2 and RC 3 (no escape door function)

### Single- and double-leaf doors

Surcharge €

⚠ Please observe the technical information regarding the security features on page 180!



1	Multiple-point lock GU Secury type DR (3-point, mechanical) ✓ For single-leaf and double-leaf doors	606	○	○	–	○
2	Multiple-point lock GU Secury A4 (S5) Automatic (5-point, self-locking) ✓ For single-leaf and double-leaf doors	976	○	○	–	○

RC 2



Escape doors according to DIN EN 179 / DIN EN 1125 and in combination with break-in resistance equipment RC 2

### Single-leaf Doors

Surcharge €



3	BKS lock Secury 1910, change-over function B for lever handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 1050 mm RAM width	1148	○	○	–	○
4	BKS lock Secury 1916 with lever / knob function E for lever / knob handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 1050 mm RAM width	953	○	○	–	○

### Double-leaf Doors

Surcharge €

Half anti-panic



5	BKS lock Secury 1910, change-over function B for lever handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	1148	○	○	–	○
6	BKS lock Secury 1916 with lever / knob function E for lever / knob handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	953	○	○	–	○
Anti-panic function						
7	BKS lock Secury 1911, change-over function B for lever handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	1996	○	○	–	○
8	BKS lock Secury 1919 with lever / knob function E for lever / knob handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	1821	○	○	–	○

1) For doors with <2200 mm RAM (width) the anti-panic function is only possible with ECO dual locking (except for A / RSx50 and ES50).

2) Locks with automatic multiple-point locking must not be combined with electric strikes, please optionally select an A opener

Lever handles and lever / knob handle sets according to DIN EN 179

See page 182

Push bar / touch bar acc. to DIN EN 1125

See page 184

# Electric extras and lockings

For aluminium fire-rated doors and smoke-tight door assemblies

T30

T60

T90

RS

## Notes:

- Fast-track programme
- Standard programme

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

Surcharge €

T30

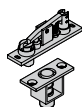
T60 / T90

RS / ES 50

RS insulated

## Lockings

⚠ The ECO dual locking is not possible for external doors in combination with anti-panic acc. to DIN EN 1125!



1	Bottom locking of the fixed leaf and adjustable bottom bush	Double-leaf door	110	○	○	○	○
2	ECO dual locking without bottom locking for anti-panic function, to be combined with a half anti-panic lock <sup>1)</sup>	Double-leaf door	43	●	●	●	●
3	ECO dual locking with bottom locking and adjustable bottom bush for anti-panic function, to be combined with a half anti-panic lock <sup>1)</sup>	Double-leaf door	200	○	○	○	○
4	Optional additional top locking for traffic leaf (BKS 1838) ⚠ Take any additional electric strikes into account	Each	452	○	○	○	○
5	Preparation for block lock, including concealed electro duct <sup>2)</sup> ⚠ Lock must be provided for preparation	Each	436	○	○	○	○

## Electric strikes

6	Preparation for electric strike, for retrofitting at a later point	Single-leaf door	92	●	●	●	●
		Double-leaf door	298	●	●	●	●

## Fire protection

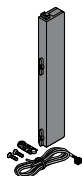


7	12–24 Volt, adjustable	Single-leaf door	495	●	●	–	–
8	12–24 V, adjustable, incl. concealed electro duct	Double-leaf door	708	●	●	–	–
9	12–24 V, adjustable, with feedback	Single-leaf door	603	●	●	–	–
10	12–24 V, adjustable, with feedback, incl. concealed electro duct	Double-leaf door	817	●	●	–	–

## Smoke protection

11	12–24 Volt, adjustable	Single-leaf door	161	–	–	●	●
12	12–24 V, adjustable, incl. concealed electro duct	Double-leaf door	373	–	–	●	●
13	12–24 V, adjustable, with feedback	Single-leaf door	196	–	–	●	●
14	12–24 V, adjustable, with feedback, incl. concealed electro duct	Double-leaf door	409	–	–	●	●

## Automatic opener for multiple-point automatic locks



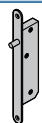
15	A opener for motor-powered opening of locks, including connection cable and concealed electro duct. ⚠ Emergency power buffer mandatory!	Each	563	○	○	○	○
15.1	Emergency power buffer 12–24 V (AC, DC)	Each	657	○	○	○	○
15.2	Emergency power buffer 24 V (DC)	Each	361	○	○	○	○

## Escape door opener <sup>3)</sup>



16	GEZE FTV 320	Single-leaf door	1650	○	○	○	○
17	GEZE FTV 320 incl. concealed electro duct	Double-leaf door	1863	○	○	○	○
18	Dorma TV 505 (506), 24 Volt (DCW)	Each	1379	●	●	●	●
19	Dorma STV 505 (506), 24 Volt (DCW)	Each	1675	●	●	●	●
20	Preparation for escape door opener, for retrofitting at a later point <b>Notice: for single-leaf doors vertically and for double-leaf doors horizontally in the lath</b>	Per door	131	●	●	●	●

## Electromechanical alarm contact elements <sup>2)</sup>



21	Alarm contact element 019030	Each	735	○	–	○	○
22	Alarm contact element 019033 with reed contact	Each	824	○	–	○	○

1) ECO dual locking not possible with integrated overhead door closer ITS and with frame without face

2) Consult with the regulations of EltVTR (directive for electrical locking systems) prior to use

3) Escape door opener only on request for frame without face



# Reed contacts, latch switching contacts and cylinders

For aluminium fire-rated doors and smoke-tight door assemblies

T30

T60







T90

RS

## Notes:

- Fast-track programme
- Standard programme

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

			Surcharge €	T30	T60 / T90	RS / ES 50	RS insulated
<b>Reed contact, latch switching contact</b>							
	23	Reed contact Link 4) VDS class B, cable length 10 m	Each 83	●	●	●	●
	24	Reed contact Link 4) VDS class C, cable length 10 m	Each 125	●	●	●	●
	25	Latch switching contact, Link 100 13 31, VDS class C, cable length 10 m	Single-leaf door 108	●	●	●	●
	26	Latch switching contact, Link 100 13 31, VDS class C, cable length 10 m ► Fixed leaf monitoring via espagnolette lock / switch latch in the frame	Double-leaf door 199	●	●	●	●
	27	Latch switching contact, Link 100 13 31, VDS class C, cable length 10 m, including electro duct ► Traffic and fixed leaf monitoring ✗ Not in combination with ECO dual locking	Double-leaf door 322	●	●	●	●
	28	Latch switching contact, Link 100 13 31, VDS class C, cable length 10 m, including electro duct ► Fixed leaf monitoring via ECO dual locking	Double-leaf door 573	○	○	○	○
<b>Electro ducts</b>							
	29	Concealed electro duct	Each 213	●	●	●	●
	30	Detachable electro duct – Kü trenn	Each 268	○	○	○	○
<b>Cylinder</b>							
<b>Fire protection, A / RS x00</b>							
	31	Profile cylinder, matt nickel-plated (31.5 / 65.5)	Each 38	●	●	–	●
	32	Blind cylinder, matt nickel-plated (31.5 / 65.5)	Each 34	●	●	–	●
	33	Security cylinder for RC 2 / RC 3 (30 / 60)	Each 72	○	○	○	○
	34	Cylinder cover set for doors in outdoor use, prepared for on-site cylinder	Per set 5,90				
<b>A / RS x50</b>							
	35	Profile cylinder, matt nickel-plated (31.5 / 35.5)	Each 33	–	–	●	–
	36	Blind cylinder, matt nickel-plated (31.5 / 35.5)	Each 28	–	–	●	–
<b>Digital cylinder</b>							
	37	Digital cylinder Evo Smart ► Access via card, key chain (chip) or smartphone ► Ideal for retrofitting	878	●	●	–	●
	38	Digital cylinder Evo Smart ► Access via card, key chain (chip) or smartphone ► Ideal for retrofitting		–	–	●	–
	39	Initial start-up set for digital cylinders Including transponder (card and key chain), tools for changing the batteries, initial start-up (app operation) instructions	264	●	●	●	●

4) Reed contact only on request for frame without face

## Fitting and fixing material including block material

# Fixing material and accessories

For aluminium fire-rated doors and smoke-tight door assemblies

T30

T60




T90

RS

## Notes:

- Fast-track programme
- Standard programme

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

				Surcharge €					
	40	Fixing material for anchor fitting, through-plug fitting or screw fixing including block material made of hardwood for 20 mm structural gap	Single or double-leaf doors or fixed glazings	32	●	–	●	●	
			Doors with side element / transom light (fire-rated door) <sup>5)</sup>	39	●	–	●	●	
	41	Fixing material for fitting by welding or flush-fitting screw-fixing <sup>6)</sup> incl. block material made of hardwood for 20 mm structural gap	Single or double-leaf doors or fixed glazings	43	●	–	●	●	
			Doors with side element / transom light (fire-rated door) <sup>5)</sup>	53	●	–	●	●	
	42	Fixing material for anchor fitting, through-plug fitting or screw fixing including block material made of steel for 20 mm structural gap	Single or double-leaf doors or fixed glazings	37	–	●	–	–	
			Doors with side element / transom light (fire-rated door) <sup>5)</sup>	48	–	●	–	–	
43	Fixing material for fitting by welding or flush-fitting screw-fixing incl. block material made of steel for 20 mm structural gap	Single or double-leaf doors or fixed glazings	50		●	–	–		
		Doors with side element / transom light (fire-rated door) <sup>5)</sup>	58	–	●	–	–		
Fixing block material sets									
	44	Steel supports and spacer blocks	60 × 58 × 1 mm	Pack unit: 150	88	○	●	–	–
			60 × 58 × 2 mm	Pack unit: 100	70	○	●	–	–
			60 × 58 × 5 mm	Pack unit: 50	86	○	●	–	–
	45	Steel supports and spacer blocks made of hardwood	70 × 40 × 2 mm	Pack unit: 100	29	●	–	●	●
			70 × 40 × 3 mm	Pack unit: 100	32	●	–	●	●
			70 × 40 × 5 mm	Pack unit: 100	34	●	–	●	●
Accessories for structural gap									
	46	Mineral wool fire protection pack for structural gap Set of 6 strips with 64 × 50 × 1000 mm each (possible to cut on-site)			28	●	●	●	●

5) Doors with side element and / or transom light in certain size ranges (see approval)

6) Flush wall screw-fixing not suitable for A / RS × 50

## Notice on fixing material:

The listed fixing material is approved and the correct fastening is described in the fitting instructions. Deviating fixing materials for through-plug or screw-on fitting must have an appropriate approval. The specifications (e.g. necessary edge distances) must be agreed with the respective manufacturer or taken from the technical documents.

# Good reasons to try Hörmann steel loft doors



Industrial style for living areas and workspaces

**Large glazings with  
high-quality steel profiles**

**HÖRMANN**

# Extensions, couplings and statics profiles

For aluminium fire-rated doors and smoke-tight assemblies

T30

T60

T90

RS

## Notice:

- Fast-track programme
- Standard programme

► Horizontal extension profiles are always continuous

			Standard colour RAL 9016/ EG/ EV1	Preferred colour/ RAL to choose	Special colour	T30	T60 / T90	RS	RS insulated
			Surcharge per m €						
Extension profiles									
T30			Surcharge per m €						
1	T30 extension profile ► Max. 2 units each on left, right and top	Viewed width 25 mm	144	160	186	●	-	-	-
		Viewed width 50 mm	166	183	212	●	-	-	-
		Viewed width 100 mm *	207	228	264	○	-	-	-
2	T30 extension profile ► Max. 1 units each on left, right and top	Viewed width 150 mm *	263	290	336	○	-	-	-
T60 / T90			Surcharge per m €						
3	T60 / T90 extension profile ► Max. 1 unit each on left, right and top, with fixed elements 2 units	Viewed width 25 mm	203	225	261	-	○	-	-
		Viewed width 50 mm	240	267	336	-	○	-	-
		Viewed width 100 mm	281	309	355	-	○	-	-
Smoke protection			Surcharge per m €						
4	Smoke-tight extension profile ► Max. 2 units each on left, right and top	Viewed width 25 mm	97	108	124	-	-	-	●
			73	82	95	-	-	●	-
		Viewed width 50 mm	116	130	150	-	-	-	●
			80	88	104	-	-	●	-
5	► Max. 1 units each on left, right and top	Viewed width 100 mm *	146	163	189	-	-	-	○
		Viewed width 150 mm *	192	212	245	-	-	-	○
Corner profiles 20° – 180° on request									
T30			Surcharge per m €						
6	T30 corner profile 90°		525	578	637	○	-	-	-
Smoke protection			Surcharge per m €						
7	Smoke protection corner profile 90°		362	398	437	-	-	-	○
			168	185	203	-	-	○	-
Statics profiles									
T30 / T60 / T90			Surcharge per m €						
8	Statics profile version E	Separate	166	183	200	○	○	-	-
		Factory fitted	215	236	260	○	○	-	-
9	Statics profile version F	Separate	240	263	289	○	-	-	-
		Factory fitted	298	326	360	○	-	-	-
10	Statics profile version H	Separate	238	261	285	○	○	-	-
		Factory fitted	340	375	413	○	○	-	-
11	Statics profile version I	Separate	329	362	397	-	○	-	-
		Factory fitted	393	433	475	-	○	-	-
12	Statics profile version K	Separate	275	301	333	-	○	-	-
		Factory fitted	339	373	411	-	○	-	-
Smoke protection			Surcharge per m €						
13	Statics profile version E	Separate	157	173	191	-	-	○	○
		Factory fitted	217	238	262	-	-	○	○
14	Statics profile version F	Separate	195	221	243	-	-	○	○
		Factory fitted	252	279	306	-	-	○	○


\* Not possible with coupling constructions

► Statics profiles in accordance with the statics program or from page 58

# Vertical and horizontal rails, crossing points, arches, chamfers and recesses

For aluminium fire-rated doors and smoke-tight door assemblies

T30	T60	T90	RS
-----	-----	-----	----

<b>Horizontal rail / vertical rail</b>			
<b>T30</b> – (HE 311, HE 321 and HE 331)			€
Horizontal rail / vertical rail (100 mm)	Per m	RAL 9016 / E6/EV1	<b>221</b>
		Preferred colour / RAL to choose	<b>243</b>
		Special colour	<b>269</b>
<b>T60/T90</b> – (HE 611, HE 621, HE 631 and HE 911, HE 921, HE 931)			€
Horizontal rail / vertical rail (100 mm)	Per m	RAL 9016 / E6/EV1	<b>271</b>
		Preferred colour / RAL to choose	<b>299</b>
		Special colour	<b>329</b>
<b>Smoke protection / internal doors</b> – (A / RS 150, A / RS 250, A / RS 350, ES 50)			€
Horizontal rail / vertical rail (100 mm)	Per m	RAL 9016 / E6/EV1	<b>131</b>
		Preferred colour / RAL to choose	<b>144</b>
		Special colour	<b>157</b>
<b>Insulated, smoke protection</b> – (A / RS 100, A / RS 200, A / RS 300)			€
Horizontal rail / vertical rail (100 mm)	Per m	RAL 9016 / E6/EV1	<b>205</b>
		Preferred colour / RAL to choose	<b>227</b>
		Special colour	<b>249</b>
<b>Crossing point</b>			
<b>T30</b> – (HE 311, HE 321 and HE 331)			€
Crossing point	Each		<b>236</b>
<b>Non-insulated and insulated smoke protection</b> – (A / RS 150, A / RS 250, A / RS 350, A / RS 100, A / RS 200, A / RS 300)			
Crossing point	Each		<b>236</b>
 <b>Maximum number of rails</b>		HE x	see product descriptions from page 58
<b>Arches (pointed, segmental and Norman arches)</b>			€
<ul style="list-style-type: none"><li>F30</li><li>F60 / F90</li><li>A / RS 300</li><li>A / RS 350</li></ul>			<b>On request</b>
<b>Chamfers and recesses on request</b>			€
			<b>On request</b>

## Notice:

The rectangle forming a model pane must not exceed the dimensions of 1600 × 2000 mm. For each pane, a perfect-fitting stencil made of fibre board or a completely dimensioned drawing is to be provided free of charge. The creation of production stencils can result in additional costs. For Norman arches, the radius must be > 500 mm.

# Door closers and hold-open devices

For aluminium fire-rated doors

HE 311 as well as A / RS 100, A / RS 150, ES 50

T30

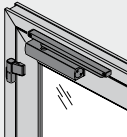
RS

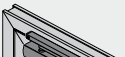
## General notes on using and equipping door closers


See page 56

### Notice:

- Fast-track programme
- Standard programme

For fitting on the hinge side	Overall frame dimension		Silver-coloured	Delivery programme	RAL colours / special colours	Delivery programme
	Min.	Max.				
						
HDC 35						
HDC 35 (only for aluminium) • Opening angle 180°	605	1270	213	●	276	○
GEZE – TS 5000 <span style="float:right">Surcharge €</span>						
TS 5000 • Opening angle 173° • May also be used for overhead fitting on the opposite hinge side	605	1500	308	●	360	○
TS 5000 E * • Opening angle 173° • Hold-open angle 80° – 130°	756	1500	686	●	738	○
TS 5000 R * • Opening angle 173° • Hold-open angle 80° – 130° • Extension profile for glazing beads on the hinge side 25 mm	970	1500	1430	●	1482	○
TS 5000 EFS * • Opening angle 173° • Hold-open angle 80° – 130°	756	1500	1900	○	1952	○
TS 5000 RFS * • Opening angle 173° • Hold-open angle 80° – 130° • Extension profile for glazing beads on the hinge side 25 mm	970	1500	2882	○	2934	○
TS 5000 ECline • With EC Line slide rail • Opening angle 173° • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	605	1338	349	●	401	○
TS 5000 E ECline * • Opening angle 173° • Hold-open angle 80° – 130° • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	756	1338	728	○	780	○
TS 5000 R ECline * • Opening angle 173° • Hold-open angle 80° – 130° • Extension profile for glazing beads on the hinge side 25 mm • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	970	1338	1474	○	1526	○
TS 5000 SoftClose • Opening angle 173° ✓ suitable for varying pressure conditions	605	1500	469	○	521	○

For fitting on the opposite hinge side **		Overall frame dimension		Silver-coloured	Delivery programme	RAL colours / special colours	Delivery programme
		Min.	Max.				
GEZE – TS 5000							
TS 5000 L		Surcharge €					
• Opening angle 173°		796	1500	331	○	383	○
TS 5000 L-E							
• Opening angle 173°		796	1500	761	○	813	○
• Hold-open angle 80° – 130°							
TS 5000 L-R							
• Opening angle 173°		1010	1500	1505	○	1557	○
• Hold-open angle 80° – 130°							

\*  Hold-open devices are not suitable for use with external doors

## Magnets, smoke switch control units and further accessories for door closers

See page 207

## Operators for fire-rated doors

See from page 208

\*\* Not possible in combination with 3-way hinges with 36 mm pivot point

# Door closers and hold-open devices

For aluminium fire-rated doors

T30

RS

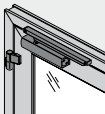
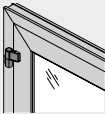
HE 311 as well as A / RS 100, A / RS 150, ES 50


## General notes on using and equipping door closers

See page 56

### Notice:

- Fast-track programme
- Standard programme

For fitting on the hinge side	Overall frame dimension		Silver-coloured	Delivery programme	RAL colours / special colours	Delivery programme
	Min.	Max.				
						
H – TS 93 B						
H – TS 93 B	673	1500	308	●	–	○
• Opening angle 180°						
Dorma						
TS 93 B						
• Opening angle 180°	673	1500	308	●	360	○
TS 93 B EMF *						
• Opening angle 120°	766	1500	686	○	738	○
• Hold-open angle traffic leaf 80° – 120°						
TS 93 B EMR *						
• Opening angle 120°	938	1500	1430	●	1482	○
• Hold-open angle traffic leaf 80° – 120°						
TS 98 XEA						
• Opening angle 180°	673	1488	750	○	802	○
✓ suitable for varying pressure conditions						
TS 98 XEA EMF						
• Opening angle 140°	766	1488	1353	○	1405	○
• Hold-open angle traffic leaf 80° – 140°						
✓ suitable for varying pressure conditions						
TS 98 XEA EMR						
• Opening angle 140°	938	1488	2638	○	2690	○
• Hold-open angle traffic leaf 80° – 140°						
✓ suitable for varying pressure conditions						
TS 99 FL *						
• Compensator function from door opening angle > 0°	816	1338	1765	○	1817	○
✓ Suitable for barrier-free construction acc. to DIN 18040						
TS 99 FLR-K *						
• Compensator function from door opening angle > 0°	911	1338	2949	○	3001	○
✓ Suitable for barrier-free construction acc. to DIN 18040						
	Overall frame dimension					Delivery programme
	Min.	Max.				
Concealed door closer Dorma – ITS 96						
Surcharge €						
ITS 96	≥ 788	≤ 1188	547			○
• Opening angle 120°						
• Max. leaf weight 130 kg						
✓ Suitable for use with frame without face						
ITS 96 (not for A / RS x50)						
• Opening angle 120°	≥ 788	≤ 1488	634			○
• Max. leaf weight 180 kg						
✓ Suitable for use with frame without face						
ITS 96 G EMF *						
• Opening angle 120°	≥ 832	≤ 1188	1183			○
• Hold-open angle traffic leaf 80° – 120°						
• Max. leaf weight 130 kg						
ITS 96 G EMF * (not for A / RS x50)						
• Opening angle 120°	≥ 832	≤ 1338	1268			○
• Hold-open angle traffic leaf 80° – 120°						
• Max. leaf weight 180 kg						

\*  Hold-open devices are not suitable for use with external doors

### Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

## Magnets, smoke switch control units and further accessories for door closers

See page 207

## Operators for fire-rated doors

See from page 208

# Door closers and hold-open devices

For aluminium and steel fire-rated doors

HE 321 as well as A/RS 200, A/RS 250, ES 50

T30

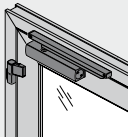
RS

## General notes on using and equipping door closers

See page 56

### Notice:

- Fast-track programme
- Standard programme

 For fitting on the hinge side	Overall frame dimension		Traffic leaf division dimensions		Fixed leaf division dimensions		Silver-coloured	Delivery programme	RAL colours / special colours	Delivery programme
	Min.	Max.	Min.	Max.	Min.	Max.				
GEZE – TS 5000										
<b>TS 5000 ISM</b> • Opening angle 173°	1388	3000	≥ 694	≤ 1500	≥ 500	≤ 1500	646	●	797	○
<b>TS 5000 E-ISM *</b> • Opening angle 173° • Hold-open angle 80° – 130° (both leaves)	1388	3000	≥ 694	≤ 1500	≥ 500	≤ 1500	1535	●	1686	○
<b>TS 5000 ISM-EFS *</b> • Opening angle 173° • Hold-open angle 80° – 130° (both leaves)	1388	3000	≥ 694	≤ 1500	≥ 500	≤ 1500	2413	○	2564	○
<b>TS 5000 R-ISM *</b> • Opening angle 173° • Hold-open angle 80° – 130° (both leaves) • Extension profile for glazing beads on the hinge side 25 mm	1588	3000	≥ 919	≤ 1500	≥ 500	≤ 1500	2373	●	2524	○
<b>TS 5000 R-ISM EFS *</b> • Opening angle 173° • Compensator and hold-open function (only traffic leaf) • Extension profile for glazing beads on the hinge side 25 mm	1588	2588	≥ 794	≤ 1294	≥ 500	≤ 1294	3986	○	4137	○
<b>TS 5000 ECline ISM</b> • Opening angle 173° • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	1388	2588	≥ 694	≤ 1294	≥ 500	≤ 1294	689	●	840	○
<b>TS 5000 ECline E-ISM *</b> • Opening angle 173° • Hold-open angle 80° – 130° (both leaves) • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	1388	2588	≥ 694	≤ 1294	≥ 500	≤ 1294	1474	○	1625	○
<b>TS 5000 ECline R-ISM *</b> • Opening angle 173° • Hold-open angle 80° – 130° (both leaves) • Extension profile for glazing beads on the hinge side 25 mm • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	1588	2588	≥ 919	≤ 1294	≥ 500	≤ 1294	2417	○	2568	○

\* ⚠ Hold-open devices are not suitable for use with external doors

### Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

## Concealed door closer for HE 321

See page 201

## Magnets, smoke switch control units and further accessories for door closers

See page 207

## Operators for fire-rated doors

See from page 208



# Door closers and hold-open devices

T30

RS

For aluminium and steel fire-rated doors

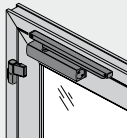
HE 321 as well as A/RS 200, A/RS 250, ES 50

## General notes on using and equipping door closers

See page 56

### Notice:

- Fast-track programme
- Standard programme

For fitting on the hinge side	Overall frame dimension		Traffic leaf division dimensions		Fixed leaf division dimensions		Silver-coloured	Delivery programme	RAL colours / special colours	Delivery programme
	Min.	Max.	Min.	Max.	Min.	Max.				
										
Dorma – TS 93										
TS 93 GSR • Opening angle 180°	1308	3000	≥ 750	≤ 1500	≥ 500	≤ 1500	646	●	797	○
TS 93 GSR EMF 1 G * • Opening angle 130° • Hold-open angle traffic leaf 80° – 130°	1308	3000	≥ 750	≤ 1500	≥ 500	≤ 1500	1020	○	-	○
TS 93 GSR EMF 2 * • Opening angle 130° • Hold-open angle 80° – 130° (both leaves)	1308	3000	≥ 750	≤ 1500	≥ 500	≤ 1500	1535	○	1686	○
TS 93 GSR EMR 1 G * • Opening angle 130° • Hold-open angle traffic leaf 80° – 130°	1788	3000	≥ 750	≤ 1500	≥ 500	≤ 1500	2390	○	-	○
TS 93 GSR EMR 2 * • Opening angle 130° • Hold-open angle 80° – 130° (both leaves)	1788	3000	≥ 750	≤ 1500	≥ 500	≤ 1500	2373	●	2524	○
TS 98 XEA GSR • Opening angle 180°	1308	2888	750	1444	500	1444	1765	○	1916	○
TS 98 XEA GSR EMF 2 • Opening angle 130° • Hold-open angle 80° – 130° (both leaves)	1308	2888	750	1444	500	1444	3049	○	3200	○
TS 98 XEA GSR EMR 2 • Opening angle 130° • Hold-open angle 80° – 130° (both leaves)	1788	2888	750	1444	500	1444	3952	○	4103	○
TS 99 FL GSR * • Compensator function from door opening angle > 0° ✓ Suitable for barrier-free construction acc. to DIN 18040	1438	2588	≥ 750	≥ 1294	≥ 500	≥ 1294	2278	○	2429	○
TS 99 FL GSR-EMF 1 * • Compensator on traffic leaf and electromechanical hold-open device on fixed leaf • Compensator function from door opening angle > 0° ✓ Suitable for barrier-free construction acc. to DIN 18040	1438	2588	≥ 750	≥ 1294	≥ 500	≥ 1294	2952	○	-	○
TS 99 FL GSR-EMR 1 * • Compensator on traffic leaf and electromechanical hold-open device on fixed leaf • Compensator function from door opening angle > 0° ✓ Suitable for barrier-free construction acc. to DIN 18040	1788	2588	≥ 894	≥ 1294	≥ 500	≥ 1294	3712	○	-	○

\* ⚠ Hold-open devices are not suitable for use with external doors

### Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

## Concealed door closer for HE 321

See page 201

## Magnets, smoke switch control units and further accessories for door closers

See page 207

## Operators for fire-rated doors

See from page 208

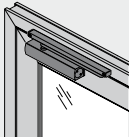
# Door closers and hold-open devices


For aluminium and steel fire-rated doors

T30

RS

HE 321 as well as A / RS 200

For fitting on the opposite hinge side 	Overall frame dimension		Traffic leaf division dimensions		Fixed leaf division dimensions		Silver-coloured	Delivery programme	RAL colours / special colours	Delivery programme
	Min.	Max.	Min.	Max.	Min.	Max.				
GEZE – TS 5000 **										
<b>TS 5000 L-ISM</b> • Opening angle 119°	1448	2888	≥ 724	≤ 1444	≥ 500	≤ 1444	923	○	1074	○
<b>TS 5000 L-E-ISM *</b> • Opening angle 119° • Hold-open angle 80° – 130° (both leaves)	1448	2888	≥ 724	≤ 1444	≥ 500	≤ 1444	1796	○	1947	○
<b>TS 5000 L-R-ISM *</b> • Opening angle 119° • Hold-open angle 80° – 130° (both leaves)	1648	2888	≥ 724	≤ 1444	≥ 500	≤ 1444	2631	○	2782	○
For anti-panic doors										
<b>TS 5000 L-ISM VPK</b> • Opening angle 119°	1388	2888	≥ 694	≤ 1444	≥ 500	≤ 1444	2597	○	2748	○
<b>TS 5000 L-E-ISM VPK*</b> • Opening angle 119° • Hold-open angle 80° – 130° (both leaves)	1388	2888	≥ 694	≤ 1444	≥ 500	≤ 1444	3983	○	4134	○
<b>TS 5000 L-R-ISM VP *</b> • Opening angle 119° • Hold-open angle 80° – 130° (both leaves)	1733	2888	≥ 949	≤ 1444	≥ 500	≤ 1444	4241	○	4392	○

\*  Hold-open devices are not suitable for use with external doors

\*\* Not in combination with 3-way hinges with 36 mm pivot point

## Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

**Magnets, smoke switch control units and further accessories for door closers**

See page 207

**Operators for fire-rated doors**

See from page 208

# Door closers and hold-open devices

For aluminium and steel fire-rated doors

T30

RS

HE 321 as well as A/RS 200, A/RS 250

Delivery programme		Overall frame dimension		Traffic leaf division dimensions		Fixed leaf division dimensions		
		Min.	Max.	Min.	Max.	Min.	Max.	
Concealed door closer Dorma – ITS 96								Surcharge €
○	<b>ITS 96 G GSR</b> • Opening angle 120° • Leaf width 740 – 1100 mm • <i>Max. leaf weight 130 kg</i> ✓ Suitable for use with frame without face	≥ 1488	≤ 2288	≥ 744	≤ 1144	≥ 744	≤ 1144	1256
○	<b>ITS 96 G GSR (not for ARSx50)</b> • Opening angle 120° • Leaf width 740 – 1400 mm • <i>Max. leaf weight 180 kg</i> ✓ Suitable for use with frame without face	≥ 1488	≤ 2888	≥ 744	≤ 1444	≥ 744	≤ 1444	1429
○	<b>ITS 96 G GSR EMF *</b> • Opening angle 120° • Hold-open angle 80° – 120° (both leaves) • Leaf width 740 – 1100 mm • <i>Max. leaf weight 130 kg</i>	≥ 1488	≤ 2288	≥ 744	≤ 1144	≥ 744	≤ 1144	2445
○	<b>ITS 96 G GSR EMF * (not for ARSx50)</b> • Opening angle 120° • Hold-open angle 80° – 120° (both leaves) • Leaf width 740 – 1400 mm • <i>Max. leaf weight 180 kg</i>	≥ 1488	≤ 2888	≥ 744	≤ 1444	≥ 744	≤ 1444	2623

\* ⚠ Hold-open devices are not suitable for use with external doors

## Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

Magnets, smoke switch control units and further accessories for door closers

See page 207

Operators for fire-rated doors

See from page 208

# Door closers and hold-open devices

For aluminium and steel fire-rated doors

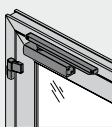
T60

T90

## HE 611 and HE 911

### General notes on using and equipping door closers

See page 56

For fitting on the hinge side	Overall frame dimension		Silver-coloured	RAL colours / special colours
	Min.	Max.		
				
HDC 35				
HDC 35 (only for aluminium) • Opening angle 180°	605	1270	213	276
H – TS 93 B				
H – TS 93 B • Opening angle 180°	673	1500	306	–
GEZE – TS 5000				
Surcharge €				
TS 5000 • Opening angle 173° • May also be used for overhead fitting on the opposite hinge side	605	1500	308	360
TS 5000 E • Opening angle 173° • Hold-open angle 80° – 130°	605	1500	686	738
TS 5000 R • Opening angle 173° • Hold-open angle 80° – 130° • Extension profile for glazing beads on the hinge side 25 mm	605	1500	1430	1482
TS 5000 EFS • Opening angle 173° • Hold-open angle 80° – 130°	663	1338	1900	1952
TS 5000 RFS • Opening angle 173° • Hold-open angle 80° – 130° • Extension profile for glazing beads on the hinge side 25 mm	863	1338	2882	2934
TS 5000 EClíne • With EC Line slide rail • Opening angle 173° • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	605	1338	349	401
TS 5000 E EClíne • Opening angle 173° • Hold-open angle 80° – 130° • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	605	1338	728	780
TS 5000 R EClíne • Opening angle 173° • Hold-open angle 80° – 130° • Extension profile for glazing beads on the hinge side 25 mm • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	605	1338	1474	1526
TS 5000 SoftClose • Opening angle 173° ✓ suitable for varying pressure conditions	605	1500	469	521
Dorma – TS 93				
Surcharge €				
TS 93 B • Opening angle 180° • Opening limiter 80° – 120°	673	1500	308	360
TS 93 B EMF • Opening angle 120° • Hold-open angle traffic leaf 80° – 120°	686	1500	686	738
TS 93 B EMR • Opening angle 120° • Hold-open angle traffic leaf 80° – 120°	907	1500	1430	1482
TS 99 FL • Compensator function from door opening angle > 0° ✓ Suitable for barrier-free construction acc. to DIN 18040	972	1338	1765	1817
TS 99 FLR-K • Compensator function from door opening angle > 0° ✓ Suitable for barrier-free construction acc. to DIN 18040	911	1338	2949	3001

### Notes:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

### Magnets, smoke switch control units and further accessories for door closers

See page 207

### Operators for fire-rated doors

See from page 208

# Door closers and hold-open devices

For aluminium fire-rated doors

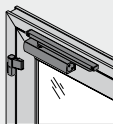
HE 621 and HE 921

T60

T90

## General notes on using and equipping door closers

See page 56

For fitting on the hinge side	Overall frame dimension		Traffic leaf division dimensions		Fixed leaf division dimensions		Silver-coloured	RAL colours / special colours
	Min.	Max.	Min.	Max.	Min.	Max.		
								
<b>GEZE – TS 5000</b>	Surcharge €							
<b>TS 5000 ISM</b> • Opening angle 173°	1388	2850	≥ 694	≤ 1425	≥ 500	≤ 1425	646	797
<b>TS 5000 E-ISM</b> • Opening angle 173° • Hold-open angle 80° – 130° (both leaves)	1388	2850	≥ 694	≤ 1425	≥ 500	≤ 1425	1535	1686
<b>TS 5000 ISM-EFS</b> • Opening angle 173° • Hold-open angle 80° – 130° (both leaves)	1388	2588	≥ 694	≤ 1294	≥ 500	≤ 1294	2413	2564
<b>TS 5000 R-ISM</b> • Opening angle 173° • Compensator and hold-open function (only traffic leaf) • Extension profile for glazing beads on the hinge side 25 mm	1588	2588	≥ 794	≤ 1294	≥ 500	≤ 1294	2373	2524
<b>TS 5000 R-ISM EFS</b> • Opening angle 173° • Hold-open angle 80° – 130° (both leaves) • Extension profile for glazing beads on the hinge side 25 mm	1588	2850	≥ 814	≤ 1425	≥ 500	≤ 1425	3986	4137
<b>TS 5000 Ecline ISM</b> • Opening angle 173° • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	1388	2588	≥ 694	≤ 1294	≥ 500	≤ 1294	689	840
<b>TS 5000 Ecline E-ISM</b> • Opening angle 173° • Hold-open angle 80° – 130° (both leaves) • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	1388	2588	≥ 694	≤ 1294	≥ 500	≤ 1294	1474	1625
<b>TS 5000 Ecline R-ISM</b> • Opening angle 173° • Hold-open angle 80° – 130° (both leaves) • Extension profile for glazing beads on the hinge side 25 mm • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	1588	2588	≥ 919	≤ 1294	≥ 500	≤ 1294	2417	2568

### Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

## Magnets, smoke switch control units and further accessories for door closers

See page 207

## Operators for fire-rated doors

See from page 208

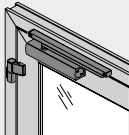
# Door closers and hold-open devices

For aluminium and steel fire-rated doors

T60

T90

## HE 621 and HE 921

 For fitting on the hinge side	Overall frame dimension		Traffic leaf division dimensions		Fixed leaf division dimensions		Silver-coloured	RAL colours / special colours
	Min.	Max.	Min.	Max.	Min.	Max.		
Dorma – TS 93							Surcharge €	
<b>TS 93 GSR</b> • Opening angle 180°	1308	2850	≥ 654	≤ 1425	≥ 500	≤ 1425	646	797
<b>TS 93 GSR EMF 2</b> • Opening angle 130° • Hold-open angle 80° – 130° (both leaves)	2588	2850	≥ 1294	≤ 1425	≥ 500	≤ 1425	1535	1686
<b>TS 93 GSR EMF 1 G</b> • Opening angle 130° • Hold-open angle traffic leaf 80° – 130°	1788	2850	≥ 894	≤ 1425	≥ 500	≤ 1425	1020	-
<b>TS 93 GSR EMR 1 G</b> • Opening angle 130° • Hold-open angle traffic leaf 80° – 130°	1788	2850	≥ 894	≤ 1425	≥ 500	≤ 1425	2390	-
<b>TS 93 GSR EMR 2</b> • Opening angle 130° • Hold-open angle 80° – 130° (both leaves)	1788	2850	≥ 894	≤ 1425	≥ 500	≤ 1425	2373	2524
<b>TS 99 FL GSR</b> • Compensator function from door opening angle > 0° ✓ Suitable for barrier-free construction acc. to DIN 18040	1438	2588	719	1294	500	1294	2278	2429
<b>TS 99 FL GSR-EMF 1</b> • Compensator on traffic leaf and electromechanical hold-open device on fixed leaf • Compensator function from door opening angle > 0° ✓ Suitable for barrier-free construction acc. to DIN 18040	1438	2588	719	1294	500	1294	2952	-
<b>TS 99 FL GSR-EMR 1</b> • Compensator on traffic leaf and electromechanical hold-open device on fixed leaf • Compensator function from door opening angle > 0° ✓ Suitable for barrier-free construction acc. to DIN 18040	1788	2588	894	1294	500	1294	3712	-

### Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

**Magnets, smoke switch control units and further accessories for door closers**

See page 207

**Operators for fire-rated doors**

See from page 208

**General notes on using and equipping door closers**

See page 56

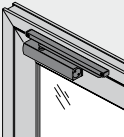
# Door closers and hold-open devices

For aluminium fire-rated doors

HE 621 and HE 921

T60

T90

For fitting on the opposite hinge side**			Overall frame dimension		Traffic leaf division dimensions		Fixed leaf division dimensions		Silver-coloured	RAL colours / special colours	
	Min.	Max.	Min.	Max.	Min.	Max.					
GEZE – TS 5000										Surcharge €	
TS 5000 L-ISM • Opening angle 119°	1448	2850	≥ 547	≤ 1425	≥ 500	≤ 1425	923	1074			
TS 5000 L-E-ISM * • Opening angle 119° • Hold-open angle 80° – 130° (both leaves)	1448	2850	≥ 547	≤ 1425	≥ 500	≤ 1425	1796	1947			
TS 5000 L-R-ISM * • Opening angle 119° • Hold-open angle 80° – 130° (both leaves)	1648	2850	≥ 949	≤ 1425	≥ 500	≤ 1425	2631	2782			
For anti-panic doors										Surcharge €	
TS 5000 L-ISM VPK • Opening angle 119°	1388	2850	≥ 547	≤ 1425	≥ 500	≤ 1425	2597	2748			
TS 5000 L-E-ISM VPK* • Opening angle 119° • Hold-open angle 80° – 130° (both leaves)	1388	2850	≥ 547	≤ 1425	≥ 500	≤ 1425	3983	4134			
TS 5000 L-R-ISM VP * • Opening angle 119° • Hold-open angle 80° – 130° (both leaves)	1733	2850	≥ 949	≤ 1425	≥ 500	≤ 1425	4241	4392			

## Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

\*\* Not in combination with 3-way hinges with 36 mm pivot point

**Magnets, smoke switch control units and further accessories for door closers**

See page 207

**Operators for fire-rated doors**

See from page 208

**General notes on using and equipping door closers**

See page 56

# Hold-open devices with door magnets

For aluminium fire-rated doors and smoke-tight door assemblies

T30

T60

T90

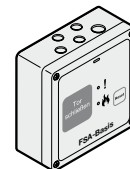
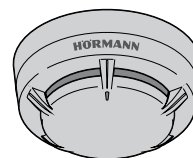
RS

⚠ Depending on local requirements, more than 1 smoke detector may be necessary. Please order these additionally.

## Hold-open devices with magnets

### Components for a hold-open device with magnet:

- Door magnet for wall or floor fitting (per leaf for double-leaf doors), with counterplate
- 1× smoke detector type H-RM 4070 with dust protection cap and fitting base H-RM with support bracket for fitting to lintel
- Hold-open device control unit FSA Basis (transformer incl. push button)



### Magnets for DORMA smoke switch control units

Magnets for Door Fitting Unit					
Item	Article	Magnet unit price		Smoke detector H-RM 4070 (lintel fitting)	Hold-open device control unit FSA Basis *
		Stainless steel design	White		
Door magnet for floor fitting					
1	With standard counterplate	475	394	312	287
2	With angle adjustment counterplate	544	463		
3	With telescopic counterplate	676	596		
Surface-mounted door magnet for wall fitting					
4	With standard counterplate	391	312	312	287
5	With angle adjustment counterplate	462	381		
6	With telescopic counterplate	594	513		

### Magnets for GEZE smoke switch control units

Magnets for GLEE smoke switch control units				
Item	Article	Magnet unit price	Smoke detector H-RM 4070 (lintel fitting)	Hold-open device control unit FSA Basis *
Door magnet for floor fitting				
7	With standard counterplate	345	312	287
Surface-mounted door magnet for wall fitting				
8	With standard counterplate	217	293	287
9	With post extension 185 mm	340		
10	With post extension 335 mm	572		
11	With post extension 485 mm	593		

\* Includes transformer and push button

### Recessed junction box for hold-open device control FSA Basis

#### Notice:

Suitable for fitting in partition walls with plaster cladding

Each

97



# Hold-open devices with door closers

For aluminium fire-rated doors and smoke-tight door assemblies

T30

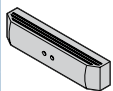

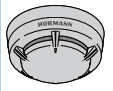

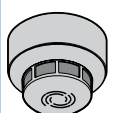


T60

T90

RS

⚠ Depending on local requirements, more than 1 smoke detector may be necessary. Please order these additionally.

## Hold-open devices with door closers

Optional extras for door closers and hold-open devices				€
1		Hekatron RSZ compact (white or silver)	Each	694
2		GEZE smoke switch control unit RSZ 7	Each	773
3		Dorma smoke switch control unit RMZ	Each	773
4		Hold-open device control unit Hörmann FSA Basis	Each	287
5		Hörmann smoke detector type H-RM 4070 with dust protection cap and fitting base for fitting to ceiling <sup>1)</sup>	Each	293
6		Hold-open device control Hekatron FSZ	Each	301
7		Smoke detector type ORS 142 with dust protection cap and fitting base 143 A for fitting to ceiling	Each	308
8		Hörmann push button HAT 02	Each	73
9		Hörmann log book for hold-open devices	Each	21

Only possible in combination with hold-open device control Hörmann FSA Basis!

### Notice:

Door magnets without external smoke detectors and transformers (delivered as separate parts in accessory pack)

Electric wiring and initial start-up of hold-open devices must be performed on-site by GEZE or DORMA and are not included in the aforementioned prices.

Hold-open devices with magnets are not approved for fire-rated doors used in outside applications.

# Operators HDO 200 / HDO 300

For aluminium fire-rated doors

For single-leaf and double-leaf doors

T30

T60

T90

RS

## General notes on using and equipping operators

See page 209

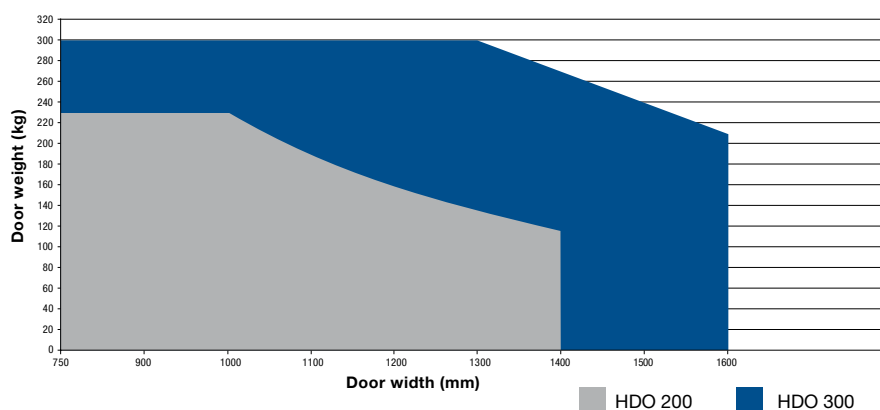
Package equipment complies with the valid standards for automatic hinged door operators DIN 18650 and EN 16005.  
A safety analysis according to the Machinery Directive 2006/42/EC and DIN 18650 must be carried out before initial start-up.

## Product description

✗ HDO 300 not possible for A/RS x50 and ES 50!

### Scope of delivery:

- Operators and control elements separate in accessory pack
  - Mounting plate(s)
  - Electric strike and latch contact fitted in the door
  - Wiring prepared in the door for on-site connection
- A 50 mm extension profile is required for fitting hinged leaf operators to doors without a transom light for the pushing version (opposite hinge side) and two 50 mm extension profiles for the pulling version (hinge side)!
- For risk assessment in accordance with the appendix to the Machinery Directive and by reference to DIN 18650/DIN EN 16005, you will need a detailed description of the on-site conditions near the door
- The version with hinged leaf operators requires a third hinge per leaf at the top, which must be taken into consideration in the calculation for T30 doors!



	HDO 200	HDO 300
Width	650 mm	720 mm
Height	70 mm	70 mm
Depth	121 mm	130 mm
Weight	9 kg	11 kg
Max. power input	0.15 kW	0.15 kW
Standby approx.	1 watt	1 watt
Door width	750–1400 mm	800–1600 mm
Door weight	Up to 200 kg	Up to 300 kg for 1400 mm door width Up to 210 kg for 1600 mm door width



#### Notices on versions and operator packages

Hörmann hinged leaf operators are available either as precisely defined packages including specified peripheral devices or separately as an operator with individual accessories.

#### Please note:

Electrical add-on parts such as electric strike and latch contact must be added to the package price.



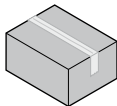
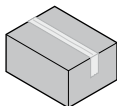


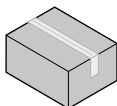
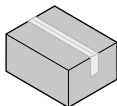
Operator package HDO "Economy"	Operator package HDO "Protect"	Operator HDO individual (equipment to choose) + individual accessories
<b>Application:</b> The simple solution for barrier-free passages, including precisely defined standard accessories.	<b>Application:</b> The convenient solution for particularly stringent hygienic requirements, including precisely defined standard accessories as well as non-contact switching elements.	<b>Application:</b> The individual solution for particularly stringent quality requirements in construction projects.
<b>Your advantage:</b> Price saving compared to individual purchase	<b>Your advantage:</b> Price saving compared to individual purchase	<b>Your advantage:</b> Flexible design options thanks to a large selection of individual accessories

Hörmann hinged leaf operators				
	HDO 200 HDO 200 IS	HDO 200 R F HDO 200 R F IS	HDO 300 HDO 300 IS	HDO 300 R F HDO 300 R F IS
<b>Suitable for:</b>				
Fire-rated doors		●		●
Smoke-tight doors		●		●
Doors without requirement	●	●	●	●
<b>Technical features</b>				
Operator type	Electromechanical	Electromechanical	Electromechanical	Electromechanical
Integrated smoke sensor control		●		●
Dimensions	650 × 70 × 121 mm	650 × 70 × 121 mm	720 × 70 × 130 mm	720 × 70 × 130 mm
Connecting voltage	100–240 V AC	100–240 V AC	100–240 V AC	100–240 V AC
Control delay (max.)	20 seconds	20 seconds	20 seconds	20 seconds
Weight	9.0 kg	9.0 kg	11.7 kg	11.7 kg
Energy supply for external consumers	24 V DC, 1200 mA	24 V DC, 1200 mA	24 V DC, 1200 mA	24 V DC, 1200 mA
Operating temperature	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C
Protection category (for dry rooms only)	IP20	IP20	IP30	IP30
Push & Go	Adjustable	Adjustable	Adjustable	Adjustable
Mains isolator	Plug-in cable connection	Plug-in cable connection	Main switch in the operator	Main switch in the operator
Automatic function	●	●	●	●
Low-energy function	●	●	●	●
Servo function	●	●	●	●

# Hinged leaf operators HDO 200, HDO 300

## Operator packages

### For single-leaf and double-leaf fire-rated and smoke-tight doors

Operator packages for single-leaf fire-rated and smoke-tight doors		Package price incl. preparation €	
 		HDO 200 R F	HDO 300 R F
<b>Package Economy</b>  	<b>Total price of package incl. basic equipment</b>	<b>6781</b>	<b>8017</b>
	<b>Operator package consisting of:</b> <ul style="list-style-type: none"> <li>Operator HDO incl. preparation with linkage or slide rail, silver-coloured surface finish, including:                             <ul style="list-style-type: none"> <li>2 x Flatscan safety sensor, silver (1 x for the opening side, 1 x for the closing side)</li> <li>Integrated smoke sensor control</li> <li>"Close door" release button HAT 02, white surface-mounted / recessed and Hörmann white "Open door" button (surface-mounted / recessed).</li> </ul> </li> </ul>	<b>6179</b>	<b>7413</b>
	<b>Required basic equipment:</b>		
	– 1 x electric strike I.S.T., FT 502B, 24 Volt AC / DC	<b>495</b>	<b>495</b>
	– 1 x latch switching contact Link, 100 13 31, VDS class C, cable length 10 m	<b>108</b>	<b>108</b>
<b>Package Protect</b>  	<b>Total price of package incl. basic equipment</b>	<b>7082</b>	<b>8318</b>
	<b>Operator package consisting of:</b> <ul style="list-style-type: none"> <li>Operator HDO incl. preparation with linkage or slide rail, silver-coloured surface finish, including:                             <ul style="list-style-type: none"> <li>2 x Flatscan safety sensor, silver (1 x for the opening side, 1 x for the closing side)</li> <li>Integrated smoke sensor control</li> <li>Non-contact radio radar button BiSecure, white surface finish</li> <li>"Close door" release button HAT 02, white surface-mounted / recessed</li> </ul> </li> </ul>	<b>6479</b>	<b>7715</b>
	<b>Required basic equipment:</b>		
	– 1 x electric strike I.S.T., FT 502B, 24 Volt AC / DC	<b>495</b>	<b>495</b>
	– 1 x latch switching contact Link, 100 13 31, VDS class C, cable length 10 m	<b>108</b>	<b>108</b>
Operator packages for double-leaf fire-rated and smoke-tight doors		Package price incl. preparation €	
 		HDO 200 R F IS	HDO 300 R F IS
<b>Package Economy</b>  	<b>Total price of package incl. basic equipment</b>	<b>13503</b>	<b>15522</b>
	<b>Operator package consisting of:</b> <ul style="list-style-type: none"> <li>Operator HDO, incl. preparation with 3-part cover, with linkage or slide rail, silver-coloured surface finish, including:                             <ul style="list-style-type: none"> <li>4 x Flatscan safety sensor, silver (2 x for the opening side, 2 x for the closing side)</li> <li>Integrated smoke sensor control</li> <li>"Close door" release button HAT 02, white surface-mounted / recessed and Hörmann white "Open door" button (surface-mounted / recessed).</li> </ul> </li> </ul>	<b>12644</b>	<b>14663</b>
	<b>Required basic equipment:</b>		
	– 1 x electric strike I.S.T., FT 502B, 24 Volt AC / DC	<b>495</b>	<b>495</b>
	– 1 x electro duct 480	<b>213</b>	<b>213</b>
	– 1 x latch switching contact Link, 100 13 31, VDS class C, cable length 10 m	<b>108</b>	<b>108</b>
<b>Package Protect</b>  	<b>Total price of package incl. basic equipment</b>	<b>13983</b>	<b>16003</b>
	<b>Operator package consisting of:</b> <ul style="list-style-type: none"> <li>Operator HDO, incl. preparation with 3-part cover, with linkage or slide rail, silver-coloured surface finish, including:                             <ul style="list-style-type: none"> <li>4 x Flatscan safety sensor, silver (2 x for the opening side, 2 x for the closing side)</li> <li>Integrated smoke sensor control</li> <li>Non-contact radio radar button BiSecure, white surface finish</li> <li>"Close door" release button HAT 02, white surface-mounted / recessed</li> </ul> </li> </ul>	<b>13124</b>	<b>15143</b>
	<b>Required basic equipment:</b>		
	– 1 x electric strike I.S.T., FT 502B, 24 Volt AC / DC	<b>495</b>	<b>495</b>
	– 1 x electro duct 480	<b>213</b>	<b>213</b>
	– 1 x latch switching contact Link, 100 13 31, VDS class C, cable length 10 m	<b>108</b>	<b>108</b>
	– 1 x ECO dual locking	<b>43</b>	<b>43</b>

# Hinged leaf operators HDO 200 F/R, HDO 300 F/R

## Individual solutions

## For single-leaf and double-leaf fire-rated and smoke-tight doors



Operators with linkage or slide rail, in EV 1		
HDO 200 R F, with integrated smoke sensor control	For single-leaf doors	<b>4542</b>
HDO 300 R F, with integrated smoke sensor control	For single-leaf doors	<b>5862</b>
HDO 200 R F IS with 3-part cover, with integrated smoke sensor control	For double-leaf doors	<b>9588</b>
HDO 300 R F IS with 3-part cover, with integrated smoke sensor control	For double-leaf doors	<b>11761</b>
RAL to choose		
Hinged leaf operator in version RAL to choose	Per operator	<b>433</b>
Safety sensors for single-leaf doors (optional)		
Flatscan, silver-coloured (black, white) for the opening and closing side to safeguard the door including secondary closing edge	2 x for single-leaf doors	<b>2505</b>
	4 x for double-leaf doors	<b>5010</b>
Flatscan 3D, silver-coloured (black, white) for the opening and closing side to safeguard the door including secondary closing edge	2 x for single-leaf doors	<b>2918</b>
	4 x for double-leaf doors	<b>5837</b>
Sensor strip GC 338	Length 1200 mm	Price per side <b>1472</b>
Sensor strip GC 338	Length 1500 mm	Price per side <b>2087</b>
Control elements		
"Close door" release button, white / red		<b>73</b>
Hörmann "Open door" button, white (surface-mounted / recessed)		<b>96</b>
Hörmann "Open door" flat button, white (surface-mounted)		<b>140</b>
Hörmann "Open door" flat button, stainless steel look (surface-mounted)		<b>176</b>
Hörmann "Open door" large flat button, stainless steel look (recessed)		<b>319</b>
Hörmann "Open door" large flat button, stainless steel look (surface-mounted)		<b>370</b>
Radio radar button (non-contact) FSR1 868-BS, white	Per side	<b>185</b>
Receiver HET / S24 868-BS		<b>71</b>
Push button with glass pane, white / red (surface-mounted / recessed)		<b>140</b>
Hörmann Eagle Artek, radar movement detector		<b>362</b>
<b>Notice:</b> Additional control elements as well as code buttons and radio buttons available on request		
Smoke detector		
Smoke detector type ORS 142 with fitting base 143 A for fitting to ceiling		<b>308</b>

### Product description

Automatic hinged leaf operators (type-tested in accordance with DIN 18650) without electric installation.

#### Scope of delivery:

- Operators and control elements separate in accessory pack
- Mounting plate(s) (not required for ED 250)
- Electric strike and latch contact fitted in the door
- Wiring prepared in the door for on-site connection



► **A 50 mm extension profile is required for fitting hinged leaf operators to doors without a transom light!**

► **For risk assessment in accordance with the appendix to the Machinery Directive and by reference to DIN 18650 / DIN EN 16005, you will need a detailed description of the on-site conditions near the door**

► **The version with hinged leaf operators requires a third hinge per leaf at the top, which must be taken into consideration in the calculation for T30 doors!**





for 100 doors.



	Operator on fitting side	Width (RAM)		Surcharge €
		Min.	Max.	
Dorma hinged leaf operator for single-leaf doors, silver-coloured surface finish				
ED 250, pushing with standard linkage EV 1, including axle extension 30 mm and integrated smoke detector	Opposite hinge side	788	1488	4880
• 1 × ED fire protection upgrade card 250				831
• ED cladding BASIC RM (integrated smoke detector)				1255
• 1 × electric strike I.S.T., FT 502B, 24 Volt AC / DC				495
• 1 × latch switching contact, Link, 100 13 31, VDS class C, cable length 10 m				108
• Hörmann push button HAT 02				73
ED 250, pulling with slide rail EV 1 and integrated smoke detector	Hinge side	788	1488	4843
• 1 × ED fire protection upgrade card 250				831
• ED cladding BASIC RM (integrated smoke detector)				1255
• 1 × electric strike I.S.T., FT 502B, 24 Volt AC / DC				495
• 1 × latch switching contact, Link, 100 13 31, VDS class C, cable length 10 m				108
• Hörmann push button HAT 02				73



 		Operator on fitting side	Width (RAM)		Division dimensions (RAM) Min.–max.	Surcharge €
			Min.	Max.		
Dorma hinged leaf operator for double-leaf doors, silver-coloured surface finish						
ED 250, pushing with standard linkage EV 1, including axle extension 30 mm with integrated mechanical door leaf selector (ED ESR set) and integrated smoke detector		Opposite hinge side	1588	2888	Min.: ≥ 788 Max.: ≤ 1488	10787
• 2 × ED fire protection upgrade card 250						1663
• ED cladding Vario M (integrated smoke detector)						2366
• 1 × electric strike I.S.T., FT 502B, 24 Volt AC / DC						495
• 1 × latch switching contact, Link, 100 13 31, VDS class C, cable length 10 m						108
• Hörmann push button HAT 02						73
• 1 × electro duct 480						213
• 1 × ECO dual locking						43
ED 250, pulling with slide rail EV 1, with integrated mechanical door leaf selector (ED ESR set) and integrated smoke detector		Hinge side	1538	2888	Min.: ≥ 788 Max.: ≤ 1488	10710
• 2 × ED fire protection upgrade card 250						1663
• ED cladding Vario M (integrated smoke detector)						2366
• 1 × electric strike I.S.T., FT 502B, 24 Volt AC / DC						495
• 1 × latch switching contact, Link, 100 13 31, VDS class C, cable length 10 m						108
• Hörmann push button HAT 02						73
• 1 × electro duct 480						213
• 1 × ECO dual locking						43

Operator accessories	Surcharge €
Operator in RAL to choose	Per operator 568
Upgrade card DCW (required for use with SVP locks)	Per set 364
Package price for preparation for single-leaf operator, incl. electric strike and latch switching contact	1471
Package price for preparation for double-leaf operator, incl. electric strike, latch switching contact, electro duct 480 and ECO dual locking	2308

# Actuation elements and safety equipment

For Dorma hinged leaf operators



Control elements (optional)				€ each
1	Radar movement detector with directional recognition, Prosecure OptiMotion Stereo, black / white / silver			542
2	Hörmann Eagle Artek, radar movement detector			362
3	Weather protective cover / ceiling bracket, black, for Prosecure OptiMotion Stereo			118
4	Remote control for Prosecure OptiMotion Stereo			412
5	Hörmann push button HAT 02			73
6	Hand button HT, recessed, one-pole, <i>Close door</i> white/red			81
7	Hand button HT, surface-mounted, one-pole, <i>Close door</i> , white/red, surface-mounted box not included			81
8	Hörmann "Open door" button, white (surface-mounted / recessed)			96
9	Hörmann "Open door" flat button, white (surface-mounted)			140
10	Hörmann "Open door" flat button, stainless steel look (surface-mounted)			176
11	Hörmann "Open door" large flat button, stainless steel look (recessed)			319
12	Hörmann "Open door" large flat button, stainless steel look (surface-mounted)			370
Safety equipment (optional)				€ each
Prosecure OptiSafe				
13	1 × Prosecure OptiSafe 700 mm	With 1 <i>silver</i> sensor module for fitting on the opposite hinge side	Package	2206
		With 1 <i>silver</i> sensor module and black linkage adapter for fitting on the hinge side		
		With 1 <i>black or white</i> sensor module for fitting on the opposite hinge side	Package	2293
		With 1 <i>black or white</i> sensor module and black linkage adapter for fitting on the hinge side		
		With 1 <i>special colour</i> sensor module for fitting on the opposite hinge side	Package	2412
		With 1 <i>special colour</i> sensor module and black linkage adapter for fitting on the hinge side		
14	1 × Prosecure OptiSafe 900 mm	With 1 <i>silver</i> sensor module for fitting on the opposite hinge side	Package	2293
		With 1 <i>silver</i> sensor module and black linkage adapter for fitting on the hinge side		
		With 1 <i>black or white</i> sensor module for fitting on the opposite hinge side	Package	2382
		With 1 <i>black or white</i> sensor module and black linkage adapter for fitting on the hinge side		
		With 1 <i>special colour</i> sensor module for fitting on the opposite hinge side	Package	2528
		With 1 <i>special colour</i> sensor module and black linkage adapter for fitting on the hinge side		
15	1 × Prosecure OptiSafe 1200 mm	With 1 <i>silver</i> sensor module for fitting on the opposite hinge side	Package	2382
		With 1 <i>silver</i> sensor module and black linkage adapter for fitting on the hinge side		
		With 1 <i>black or white</i> sensor module for fitting on the opposite hinge side	Package	2470
		With 1 <i>black or white</i> sensor module and black linkage adapter for fitting on the hinge side		
		With 1 <i>special colour</i> sensor module for fitting on the opposite hinge side	Package	2617
		With 1 <i>special colour</i> sensor module and black linkage adapter for fitting on the hinge side		
16	1 × Prosecure OptiSafe 1600 mm	With 2 <i>silver</i> sensor modules for fitting on the opposite hinge side	Package	3677
		With 2 <i>silver</i> sensor modules and black linkage adapter for fitting on the hinge side		
		With 2 <i>black or white</i> sensor modules for fitting on the opposite hinge side	Package	3765
		With 2 <i>black or white</i> sensor modules and black linkage adapter for fitting on the hinge side		
		With 2 <i>special colour</i> sensor modules for fitting on the opposite hinge side	Package	3941
		With 2 <i>special colour</i> sensor modules and black linkage adapter for fitting on the hinge side		
Accessories for Prosecure OptiSafe				€ each
17	Prosecure OptiSafe weather protective cover 1200 mm, transparent			132
18	Prosecure OptiSafe weather protective cover 1600 mm, transparent			170
19	Prosecure OptiSafe slave adapter			106
Flatscan safety sensor				€ per set
20	Flatscan, silver-coloured (black, white) for the opening and closing side to safeguard the door including secondary closing edge		2 × for single-leaf doors	2505
			4 × for double-leaf doors	5010
21	Flatscan 3D, silver-coloured (black, white) for the opening and closing side to safeguard the door including secondary closing edge		2 × for single-leaf doors	2918
			4 × for double-leaf doors	5837

# Actuation elements and safety equipment

For Dorma hinged leaf operators

For single-leaf and double-leaf T30 and T90 doors

Finger trap protection on one side, for inside use			€
For automatic doors acc. to EN 16005, a minimum length of 2015 mm (opposite hinge side) is required. The maximum delivery length is 2500 mm.			No. 30
22	Finger trap protection, anodised silver, cloth in black	Each	586
23	Finger trap protection, RAL 9016, RAL 7016 or anodised stainless steel, cloth in black	Each	666
24	Finger trap protection, RAL 3020, RAL 6005, RAL 7030 and RAL 9006 Cloth in black	Each	727
25	Finger trap protection, anodised silver, cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Length 2015 mm Each	634
26	Finger trap protection, RAL 9016, RAL 7016 or anodised stainless steel, cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Each	714
27	Finger trap protection, RAL 3020, RAL 6005, RAL 7030 and RAL 9006 cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Each	775
28	Finger trap protection, anodised silver, cloth in black	Per metre	337
29	Finger trap protection, RAL 9016, RAL 7016 or anodised stainless steel, cloth in black	Per metre	377
30	Finger trap protection, RAL 3020, RAL 6005, RAL 7030 and RAL 9006, cloth in black	Per metre	436
31	Finger trap protection, anodised silver, cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Per metre	361
32	Finger trap protection, RAL 9016, RAL 7016 or anodised stainless steel, cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Per metre	400
33	Finger trap protection, RAL 3020, RAL 6005, RAL 7030 and RAL 9006 cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Per metre	461

► Not required when using a Flatscan safety sensor, see page 213

Finger trap protection for doors without operator	See page 214
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Good reasons to try Hörmann  
steel tubular frame construction  
project doors



Particularly narrow door view

**S-Line system**

**HÖRMANN**

# Good reasons to try Hörmann steel loft doors



Industrial style for living areas and workspaces

**Large glazings with  
high-quality steel profiles**

**HÖRMANN**

# Product descriptions

for steel fire-rated tubular frame parts

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# Steel fire-rated tubular frame construction project doors

With extensive glazing for interior use

T30



## Product description HL 310, HL 320, N-Line and S-Line

Subject to changes

### ● Fast-track programme for steel fire-rated tubular frame construction project doors:

- Standard version with white surface (RAL 9016), with standard glazing and silver-coloured standard fittings.
- Marked accessories
- HL 310 (single-leaf):
  - Max. element height 2400 mm (with solid transom light 3400 mm)
  - Max. element width 1480 mm, with 1 side element 2400 mm, with 2 side elements 3400 mm
- HL 320 (double-leaf):
  - Max. element height 2400 mm (with solid transom light 3400 mm)
  - Max. element width 2400 mm, with 1 side element 3400 mm, with 2 side elements 4400 mm

### Product description HL 310 (single-leaf) and HL 320 (double-leaf) (standard version, special equipment subject to surcharge)

Fire-retarding and ready-to-fit door set for **interiors**. Tested and officially approved for fitting to brickwork, concrete, gas concrete and F90 partition walls.

Each door assembly will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Aluminium screw-on door hinges, three-way adjustable, single-leaf: min. 2 units, double-leaf: min. 4 units
- Security bolt: single-leaf: 2 units, double-leaf: 4 units
- Single-leaf: overhead door closer with slide rail acc. to DIN EN 1154
  - Double-leaf: 2 overhead door closers with slide rail acc. to DIN EN 1154 with integrated door leaf selector

#### ② Fittings

- Tubular frame mortice lock prepared for profile cylinder (40.5 / 40.5), rose escutcheon thickness 7 mm
- With aluminium round lever handle set offset on both sides, with steel core, including cylinder rose escutcheons
- For double-leaf doors: fixed leaf with rebate locking bolt and switch latch

#### ③ Seals

- All-round door seals
- Prepared for retractable bottom seal
- All-round glazing seals in glass rebate

#### ④ Design

- Galvanized steel profiles, thermally protected by silicate boards

#### ⑤ Visible surfaces

- Steel profiles, galvanized, primed or in RAL to choose (powder-coated)
- Flush-fitting

#### N-Line

- Viewed width of frame and leaf 168 mm
- Bottom section height 150 (84) mm
- Depth 60 mm

#### S-Line

- Viewed width of frame and leaf 134 mm
- Bottom section height 76 mm
- Depth 60 mm

#### ⑥ Glazing

- Fire-proof glass F30, suitable as standard for internal applications
- Glazing bead on hinge and opposite hinge side, secured on hinge side
- Weight with standard glazing approx. 65 kg/m<sup>2</sup>

#### Size range (overall frame dimensions)

##### Single-leaf:

##### N-Line

- Min. 605 × 1740 mm
- Max. 1600 × 3020 mm

##### S-Line

- Min. 567 × 1721 mm
- Max. 1562 × 3001 mm

##### Double-leaf:

##### N-Line

- Min. 1355 × 1740 mm
- Max. 3050 × 3020 mm
- Traffic leaf width 500 – 1425 mm
- Fixed leaf width 500 – 1425 mm

##### S-Line

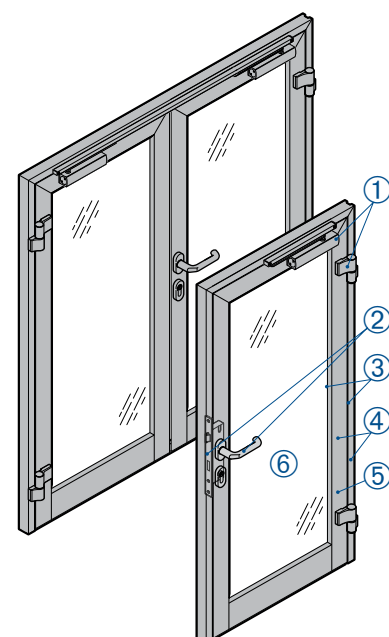
- Min. 1317 × 1721 mm
- Max. 3012 × 3001 mm
- Traffic leaf width 500 – 1425 mm
- Fixed leaf width 500 – 1425 mm

#### Maximum number of rails

- Vertical max. – 2 rails
- Horizontal max. – 3 rails

#### ► Note the minimum overall width!

#### Larger RAM in width and height on request.



#### Fitting instructions:

A fourth fixing point is required from a door height of RAM 2352 mm.

Top locking in the traffic leaf is required from a door height of RAM 2500 mm.

- Door set divided symmetrically. Observe the minimum division dimensions!
- Indicate *division of leaves* on order if asymmetrically divided leaves are required.

# Steel fire-rated fixed glazing

With extensive glazing for interior use

## Product description HL 330 N-Line and S-Line

F30



Subject to changes

### Fast-track programme for aluminium fire-rated tubular frame construction project doors for fixed glazing (for interior use only):

- Standard version with white surface (RAL 9016), with standard glazing.
- Max. element height 2400 mm (with solid transom light 3400 mm)
- Max. element width 2400 mm, with 1 side element 3400 mm, with 2 side elements 4400 mm
- Marked accessories

#### Transom light

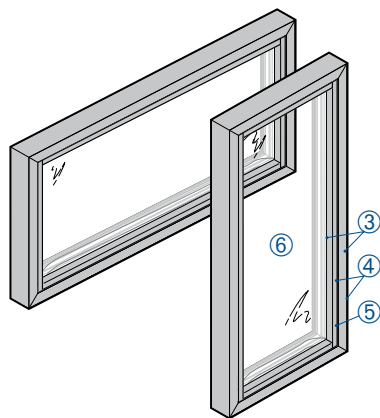
- Max. 2400 × 1000 mm
- Delivered as a door set:

#### Side element

- Max. 1400 × 2400 mm
- Delivered unconstructed

### Product description HL 330 – transom light, side element or fixed glazing

Fire-retarding and smoke-tight F30 glazing for **interiors**, depending on equipment. Each glazing element will be individually manufactured according to measurements. Tested and officially approved for fitting to brickwork, concrete, gas concrete and F90 partition walls.



#### Size range (overall frame dimensions)

##### Transom light

- Min. 300 × 300 mm
- Max. 3000 × 1500 mm

##### Side element

- Min. 300 × 2010 mm
- Max. 6000 × 4500 mm
- Maximum number of rails:
  - Max. 3 vertical rails
  - Transom light max. 2 horizontal rails
  - Side element max. 4 horizontal rails

#### Larger RAM in width and height on request.

Depending on the glass selected, with glass-dividing rail.

**With a glass ratio of > 1:10, a glass-dividing rail is required.**

#### Standard version

(Special equipment subject to surcharge)

##### ① Seals

- All-round glazing seals in glass rebate

##### ② Design

- Galvanized steel profiles, thermally protected by inserted silicate boards

##### ③ Visible surfaces

- Steel profiles, galvanized and primed or in RAL to choose (powder-coated)

#### N-Line

- Viewed frame width 84 mm
- Depth 60 mm
- Side element: bottom section height 150 (84) mm

#### S-Line

- Viewed frame width 65 mm
- Bottom section height 76 mm
- Depth 60 mm
- Side element: bottom section height 76 mm

##### ④ Glazing

- Fire-proof glass F30, suitable as standard for internal applications
- Glazing bead on both sides, secured on one side
- Weight with standard glazing approx. 55 kg/m<sup>2</sup>

# Steel fire-rated tubular frame construction project doors

With extensive glazing for interior use

## Product description HL 910 F and HL 920 F

T90



Subject to changes

**Product description HL 910 F (single-leaf) and HL 920 F (double-leaf)** (standard version, special equipment subject to surcharge)

Standard version with white surface (RAL 9016), with standard glazing.

Fire-retarding and ready-to-fit door set for **interiors**. Tested and officially approved for fitting to brickwork, concrete, 240 mm gas concrete, F90 partition walls and F90 clad steel components.

Each door assembly will be individually manufactured according to measurements.

### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Steel weld-on guide rollers, single-leaf: 3 units, double-leaf: min. 6 units
- Security bolt: single-leaf: 1 unit, double-leaf: 2 units
- Single-leaf: overhead door closer with slide rail acc. to DIN EN 1154
  - Double-leaf: 2 overhead door closers with slide rail acc. to DIN EN 1154 with integrated door leaf selector

#### ② Fittings

- Single-catch bolt lock with additional latch to the top, prepared for profile cylinder (45.5 / 45.5), rose escutcheon thickness 7 mm
- With aluminium round lever handle set offset on both sides, with steel core, including cylinder rose escutcheons

#### ③ Seals

- All-round door seals
- Prepared for retractable bottom seal
- Wet glazing with glazing tape

#### ④ Design

- Galvanized steel profiles, thermally protected by a fire-proof intermediate layer

#### ⑤ Visible surfaces

- Galvanized steel profiles, primed or RAL to choose (powder-coated)
- Flush-fitting
- Viewed width of frame and leaf 130 mm
- Bottom section height 90 mm
- Depth 70 mm

#### ⑥ Glazing

- Fire-proof glass F90, suitable as standard for internal applications
- Glazing bead on hinge side
- The glass is off-centre in the frame profile
- Weight with standard glazing approx. 124 kg/m<sup>2</sup>

#### Notice:

Fire-proof glass (panel) is delivered in a crate.

#### Size range (overall frame dimensions)

##### Single-leaf:

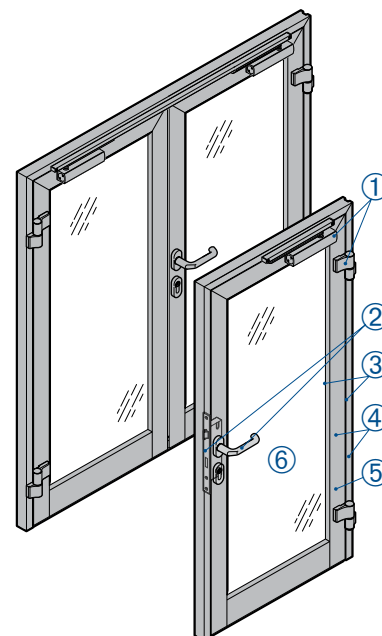
- Min. 700 × 1795 mm
- Max. 1540 × 2890 mm

##### Double-leaf:

- Min. 1400 × 1795 mm
- Max. 2490 × 2570 mm
- Traffic leaf width 620 – 1260 mm
- Fixed leaf width 400 – 1260 mm

#### Minimum leaf dimensions with anti-panic function:

- Traffic leaf width 800 mm
- Fixed leaf width 800 mm



# Steel fire-rated fixed glazing

With extensive glazing for interior use

## Product description HL 930 F

F90



Subject to changes

### Product description HL 930 F – transom light, side element or fixed glazing

Fire-retarding and smoke-tight F90 glazing for **interiors**, depending on equipment. Each glazing element will be individually manufactured according to measurements. Tested and officially approved for fitting to brickwork, concrete, 240 mm gas concrete, F90 partition walls and F90 cladded steel components.

Each glazing element will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

##### ① Seals

###### Transom light

- All-round glazing seals in glass rebate

##### ② Design

- Galvanized steel profiles, thermally protected by a fire-proof intermediate layer

##### ③ Visible surfaces

- Galvanized steel profiles, primed
- Flush-fitting
- Viewed frame width 70 mm
- Depth 70 mm
- Side element: bottom section height 90 (70) mm

##### ④ Glazing

- Fire-proof glass F90, suitable as standard for internal applications
- Glazing bead on hinge side
- The glass is off-centre in the frame profile
- Weight with standard glazing approx. 112 kg/m<sup>2</sup>

#### Size range (overall frame dimensions)

Transom light

- Min. 300 × 300 mm
- Max. 2460 × 1500 mm

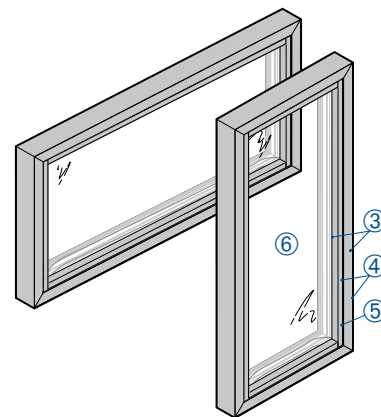
Side element

- Min. 300 × 2000 mm
- Max. 4000 × 4000 mm

#### Larger RAM in width and height on request.

Depending on the glass selected, with glass-dividing rail.

**With a glass ratio of > 1:10, a glass-dividing rail is required.**



#### Notice:

The fire-proof glass (panel) is delivered in a crate.

# Good reasons to try Hörmann aluminium tubular frame construction project doors



Up to  
**55 mm**  
wider clear  
passage width

Elegant door view without visible frame face

## Frame without face

\* compared to door version with fascia frame

# HÖRMANN



# General order information

## door closer systems / colour of fittings

### General information

#### General order information

- All door assemblies are made to order.
- Doors and side element or transom light combinations are designed as a coupling construction and open inwards as standard (glazing beads on the hinge side). Please note any surcharges.
- The ordering size is always the overall frame dimension (RAM).
- The prices indicated in this price list are generally surcharges and are only valid in conjunction with a door order.
- The glass is supplied separate as standard but optional fitting of the infill in the leaf at the factory is possible at a surcharge. An additional delivery time of 1 week must be taken into account in this case.
- Double-leaf doors with frame without face are only supplied without glass (glass separate).

#### Duty categories of doors

DIN EN 12217	<b>Class 3</b>	Doors – operating forces – requirements and classification	
DIN EN 12400	<b>Class 6</b>	Windows and doors – mechanical load	<b>Load: frequent</b>
DIN EN 13049	<b>Class 1</b>	Load with a soft, heavy impact	
DIN EN 1935	<b>Class 14</b>	Building hardware – single axis door and window hinges	<b>Usage: very high</b> (Dr. Walter Hahn hinges)

#### Notes on door closers

- The surcharges listed for door closers are only valid in conjunction with a door order. Prices for separate delivery on request.

#### Notes on door closers as hold-open devices

- Hold-open devices are suitable for holding open single- and double-leaf fire-rated and smoke-tight doors.
- Hold-open devices consist of a locking device, a smoke detector and a release device with power supply.
- The smoke switch control units of the respective manufacturer must be used with hold-open devices.
- Planning for a hold-open device is done in accordance with the DIBt decision-making diagram.
- Use of hold-open devices for fire-rated and smoke-tight doors has to be officially approved by the authorities. An acceptance test must be performed by authorised personnel before initial start-up.
- Depending on local requirements, more than 1 smoke detector may be necessary. These must be additionally ordered.
- All of the following prices for door closers / hinged leaf operators do not include fitting, electric installation or initial start-up. (Prices on request)
- When using hinged leaf operators, a security analysis must be carried out on site in accordance with DIN 18650 / DIN EN 16005. This analysis may determine that optional extras are necessary. An appropriate checklist can be downloaded at [www.hoermann.de](http://www.hoermann.de) or sent on request.
- Fitting parts such as overhead door closers, operators, lever handles and handles are delivered separately

# Steel fire-rated doors

With extensive glazing

## Product overview

Subject to changes

### Clear passage

#### HL 310 / HL 320 N-Line (tubular frame construction)

##### N-Line – deduction dimensions for clear passage width at 90° open door leaf without lever handles and handles

	Single-leaf HL 310	Double-leaf HL 320 entire door	Single-leaf HL 310		Double-leaf HL 320 entire door		Double-leaf HL 320 traffic leaf	Double-leaf HL 320 traffic leaf vertical profile construction
			Vertical profile construction		Vertical profile construction			One-sided
			One-sided	On both sides	One-sided	On both sides		One-sided
	(= RAM minus dim. stated below)		(= division dim. minus dim. stated below)					
Aluminium door hinge with 20 mm pivot point	– 218 mm	– 268 mm	– 187 mm	– 155 mm	– 237 mm	– 205 mm	– 145 mm	– 114 mm
Aluminium door hinge with pivot point 36 mm	– 234 mm	– 300 mm	– 203 mm	– 171 mm	– 269 mm	– 237 mm	– 161 mm	– 130 mm
Steel guide roller weld-on hinge with pivot point 12 mm	– 215 mm	– 262 mm	– 184 mm	– 152 mm	– 230 mm	– 198 mm	– 142 mm	– 110 mm
Steel guide roller screw-on door hinge with pivot point 13 mm	– 217 mm	– 266 mm	– 186 mm	– 154 mm	– 234 mm	– 202 mm	– 144 mm	– 112 mm

- The values for the vertical profile constructions are based on a **105 mm** vertical rail (no difference if opening inwards or opening outwards)

##### N-Line – deduction dimensions for clear passage height

Calculation with retractable bottom seal	Single-leaf HL 310	Double-leaf HL 320	Single-leaf HL 310	Double-leaf HL 320
			Horizontal profile construction	Horizontal profile construction
	(= RAM minus dim. stated below)		(= division dim. minus dim. stated below)	
Opening inwards	– 84 mm	– 84 mm	– 53 mm	– 53 mm
Opening outwards	– 84 mm	– 84 mm	– 53 mm	– 53 mm

#### HL 310 / HL 320 S-Line (tubular frame construction)

##### S-Line – deduction dimensions for clear passage width at 90° open door leaf without lever handles and handles

	Single-leaf HL 310	Double-leaf HL 320 entire door	Single-leaf HL 310		Double-leaf HL 320 entire door		Double-leaf HL 320 traffic leaf	Double-leaf HL 320 traffic leaf vertical profile construction
			Vertical profile construction		Vertical profile construction			One-sided
			One-sided	On both sides	One-sided	On both sides		One-sided
	(= RAM minus dim. stated below)		(= division dim. minus dim. stated below)					
Aluminium door hinge with 20 mm pivot point	– 180 mm	– 230 mm	– 160 mm	– 140 mm	– 210 mm	– 190 mm	– 126 mm	– 106 mm
Aluminium door hinge with pivot point 36 mm	– 196 mm	– 262 mm	– 176 mm	– 156 mm	– 242 mm	– 222 mm	– 142 mm	– 122 mm
Steel guide roller weld-on hinge with pivot point 12 mm	– 179 mm	– 227 mm	– 159 mm	– 137 mm	– 207 mm	– 187 mm	– 125 mm	– 105 mm
Steel guide roller screw-on door hinge with pivot point 13 mm	– 179 mm	– 227 mm	– 159 mm	– 139 mm	– 207 mm	– 187 mm	– 125 mm	– 105 mm

- The values for the vertical profile constructions are based on a **105 mm** vertical rail (no difference if opening inwards or opening outwards)

##### S-Line – deduction dimensions for clear passage height

Calculation with retractable bottom seal	Single-leaf HL 310	Double-leaf HL 320	Single-leaf HL 310	Double-leaf HL 320
			Horizontal profile construction	Horizontal profile construction
	(= RAM minus dim. stated below)		(= division dim. minus dim. stated below)	
Opening inwards	– 65 mm	– 65 mm	– 45 mm	– 45 mm
Opening outwards	– 65 mm	– 65 mm	– 45 mm	– 45 mm

- In the version with a semi-circular threshold, the clear passage height is reduced by an additional **5 mm**

# Steel fire-rated doors

With extensive glazing

## Product overview

Subject to changes

### Clear passage

#### Steel T90 FS

##### Steel T90 FS F

Deduction dimensions for clear passage width at 90° open door leaf without lever handles and handles

	Single-leaf HL 910 F	Double-leaf HL 920 F	Single-leaf HL 910 F		Double-leaf HL 920 F		Double-leaf HL 920 F traffic leaf	Double-leaf HL 920 F traffic leaf vertical profile construction
			Vertical profile construction		Vertical profile construction			One-sided
	(= RAM minus dim. stated below)		One-sided	On both sides	One-sided	On both sides		One-sided
3-way adjustable hinge, pivot point 20 mm	- 196 mm	- 252 mm	- 171 mm	- 146 mm	- 227 mm	- 202 mm	- 146 mm	- 121 mm
3-way adjustable hinge, pivot point 36 mm	- 212 mm	- 284 mm	- 187 mm	- 162 mm	- 259 mm	- 234 mm	- 162 mm	- 137 mm
Guide roller, fitting by welding, pivot point 17 mm	- 194 mm	- 248 mm	- 169 mm	- 144 mm	- 223 mm	- 198 mm	- 144 mm	- 119 mm

##### Steel T90 FS F – deduction dimensions for clear passage height

Calculation with retractable bottom seal	Single-leaf HL 910 F	Double-leaf HL 920 F	Single-leaf HL 910 F	Double-leaf HL 920 F
	(= RAM minus dim. stated below)		Horizontal profile construction	Horizontal profile construction
Opening inwards	- 70 mm	- 70 mm	- 45 mm	- 45 mm
Opening outwards	- 70 mm	- 70 mm	- 45 mm	- 45 mm

##### Minimum leaf dimensions for double-leaf doors acc. to DIN EN 1125

Hinges	Minimum fixed leaf width	Minimum traffic leaf width	Leaf communicator
Concealed hinge with pivot point 9.5 mm	500 mm	500 mm	215 mm (BKS 17897-01)
Steel guide roller weld-on hinge with pivot point 12 mm or screw-on door hinge with pivot point 13 mm	600 mm	700 mm	215 mm (BKS 17897-01)
Steel guide roller weld-on hinge with pivot point 12 mm or screw-on door hinge with pivot point 13 mm	600 mm	700 mm	215 mm (BKS 17897-01)
Guide roller, fitting by welding, pivot point 17 mm	850 mm	850 mm	215 mm (BKS 17897-01)
Aluminium door hinge with pivot point 36 mm	Cannot be used	Cannot be used	-

# Powder coating on fire-rated doors

## Available surface finishes

### Standard colour

Powder-coated interior and exterior in RAL 9016 Traffic white

### Preferred colours

Powder-coated interior and exterior in the following listed surface finishes:

- RAL 3000 Fire red
  - RAL 7016 Anthracite grey
  - RAL 9002 Grey white
  - RAL 9005 Jet black
  - RAL 9006 White aluminium
  - RAL 9007 Grey aluminium
- 
- DB 703 Anthracite

### RAL to choose

Powder-coated interior and exterior in RAL to choose

### Special colours

Pearl colours, Sikkens colours, NCS, textured paint and pearl-effect colours.

### Gloss levels:

- All colours are delivered in matt (gloss level  $35 \pm 5$ ) as standard
- Special gloss levels (gloss level  $75 \pm 10$ ) or high gloss (gloss level  $> \text{approx. } 85$ , gloss points in accordance with ISO 2813, 60 degree measurement angle) are available to order

Colouring of steel hollow profiled section doors			
Colour version	Colour version for supplied standard accessories		
Door	Overhead door closers	Hinges	Lever handles
RAL 9016	Silver-coloured	E6 / EV 1	Aluminium
Preferred colours	Silver-coloured	E6 / EV 1	Aluminium
RAL and special colours	Silver-coloured	E6 / EV 1	Aluminium

(Deviations from the standard are available for a surcharge)

# T30 steel fire-rated doors

With extensive glazing

## Product overview

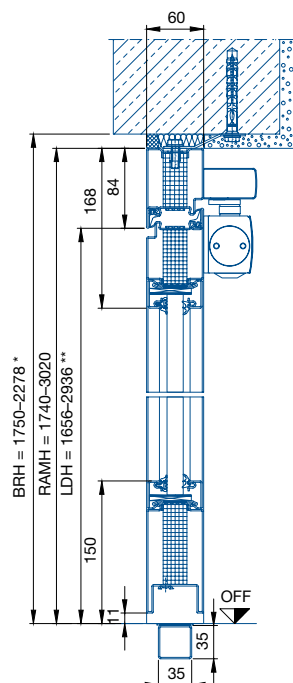
T30



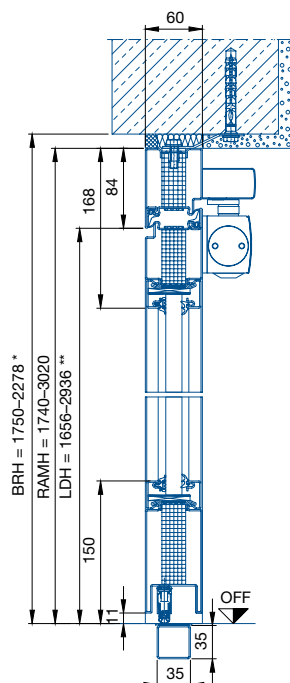
Subject to changes

### Fitting dimensions T30

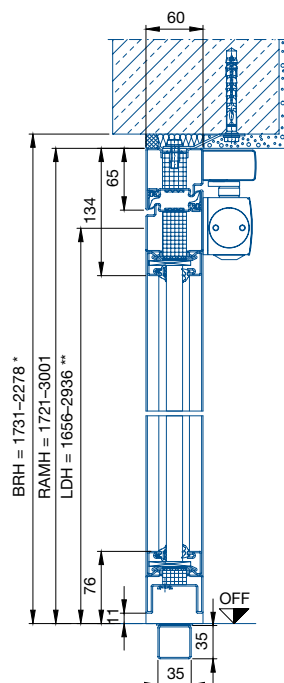
HL 310 / 320 steel



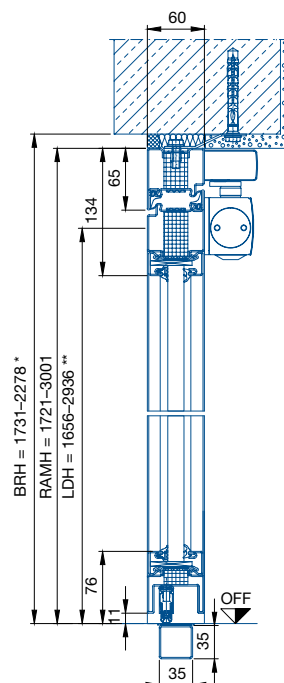
HL 310 / 320 steel  
with smoke-tight properties



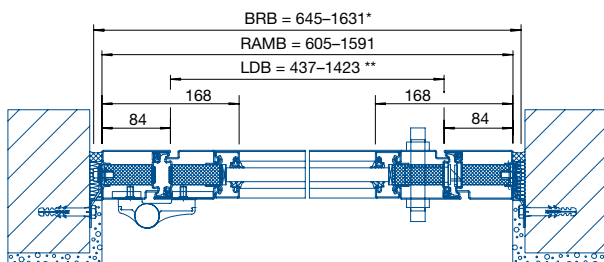
HL 310 / 320 steel S-Line



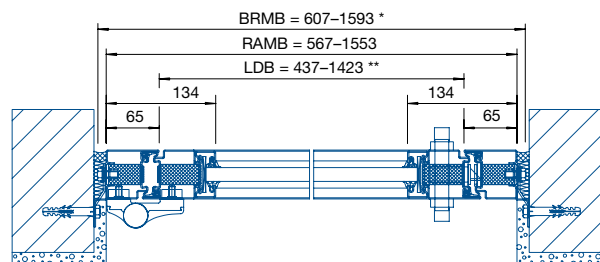
HL 310 / 320 steel S-Line  
with smoke-tight properties



HL 310  
Steel



HL 310  
Steel S-Line



\* With frame type

\*\* See page 224 – clear passage

**BRM** Nominal size  
**BRB** Nominal width  
**BRH** Nominal height  
**GE** Glass recess  
**LDB** Clear passage width  
**LDH** Clear passage height

**OFF** Finished floor level  
**RAM** Overall frame dimension  
**RAMB** Overall frame width  
**RAMH** Overall frame height

**GF** Traffic leaf  
**SF** Fixed leaf  
**TUER** Door  
**OL** Transom light

# T30 steel fire-rated doors

With extensive glazing

## Product overview

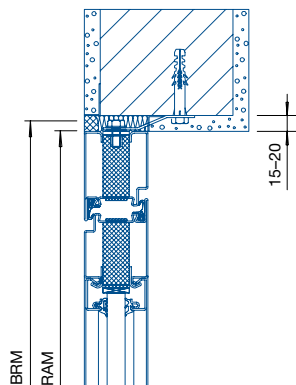
T30



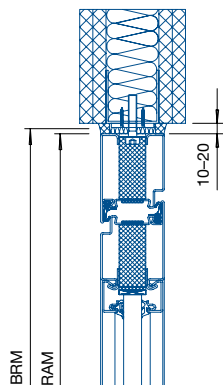
Subject to changes

**Fitting methods for brickwork, concrete, gas concrete, partition walls** (see the fitting instructions for further fitting methods)

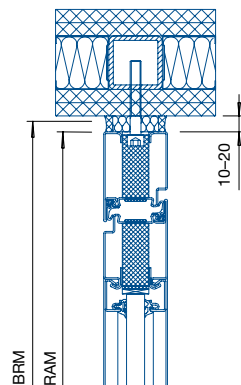
### HL 310 / 320 / 330 steel, steel S-Line



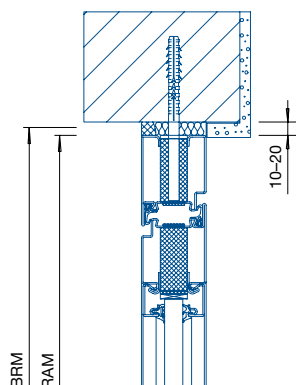
Anchor fitting  
with dowel bracket



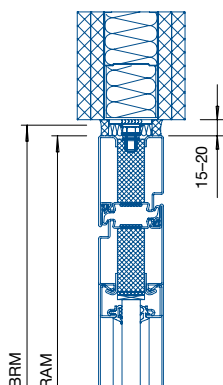
Screw fixing  
Prefabricated walls



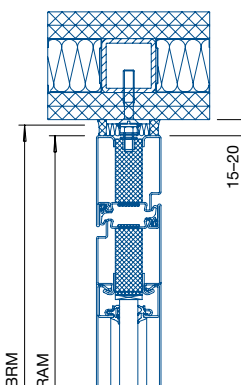
Screw fixing  
Prefabricated walls



Through-plug fitting  
Interior plaster

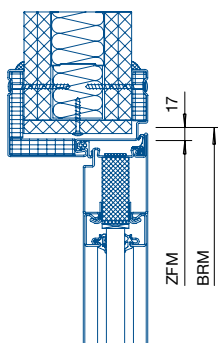


Fitting by welding  
Prefabricated walls

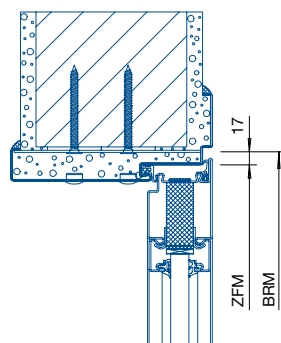


Fitting by welding  
Prefabricated walls

### HL 310 / 320 steel, steel S-Line with corner and profile frames



Screw fixing on profile frame for  
prefabricated walls



Anchor fitting with concealed dowel  
brackets on profile frame for solid walls

# T90 steel fire-rated doors

With extensive glazing

## Product overview

T90

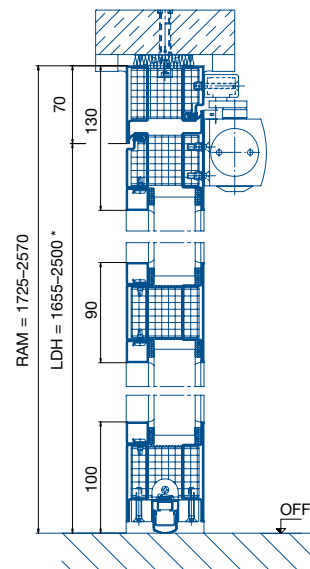
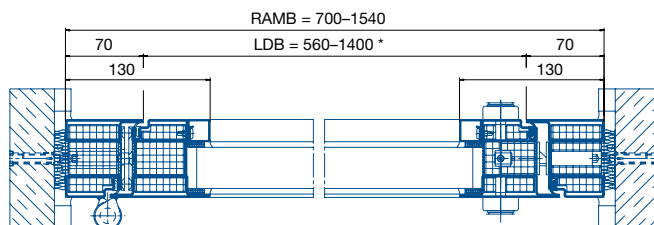


Subject to changes

### Fitting dimensions T90

HL 910 F steel

HL 910 F / 920 F steel

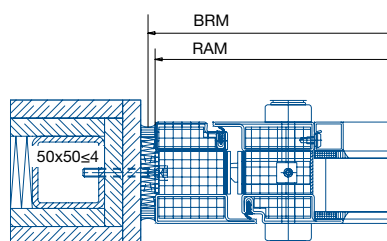


\* See page 224 *Clear passage*

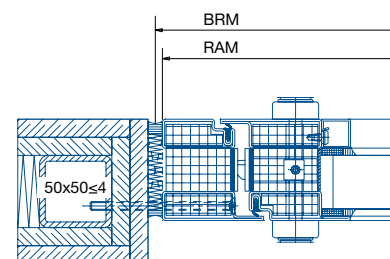
### Fitting methods for brickwork, concrete, gas concrete, partition walls (see the fitting instructions for further fitting methods)

#### HL 910 F / 920 F / 930 F steel

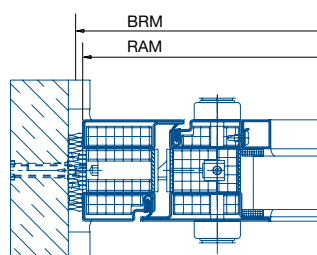
- For brickwork  $\geq 240$  mm (strength class  $\geq 12$ )
- For concrete  $\geq 140$  mm (strength class  $\geq B15$ )
- For gas concrete  $\geq 240$  mm and F90 wall
- For F90 partition walls  $\geq 100$  mm



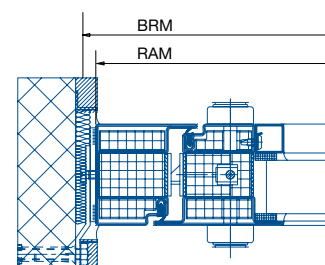
Through-plug fitting  
Prefabricated walls



Through-plug fitting  
Prefabricated walls, flush-fitting



Through-plug fitting  
Concrete



Anchor fitting  
Brickwork

**BRM** Nominal size  
**LDB** Clear passage width  
**LDH** Clear passage height  
**RAM** Overall frame dimension  
**RAMB** Overall frame width  
**RAMH** Overall frame height

**ZFM** Frame hold dimension  
**GF** Traffic leaf  
**SF** Fixed leaf  
**TUER** Door  
**OL** Transom light

# Statics for steel fire protection elements

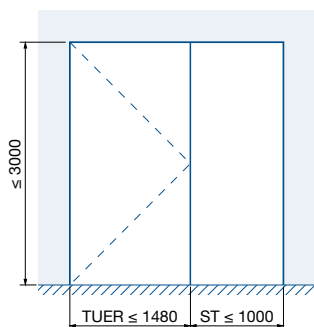
## Notes on assemblies without additional statics profiles

### HL 310, HL 320 and HL 330 (N-Line and S-Line)

This page will provide assistance in finding the simplest design for fire protection elements without the need to take statics into account. If the indicated maximum dimensions are complied with, the specified designs will not require any statics profiles.

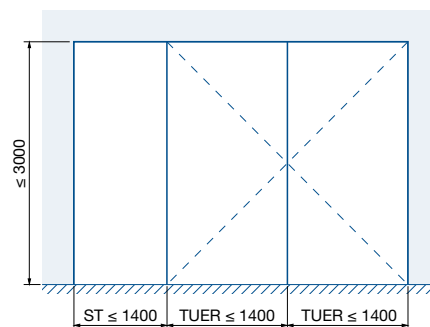
► **Larger dimensions must be checked using the Hörmann statics programme**

#### HL 310 and HL 330 side element (vertical profile construction)



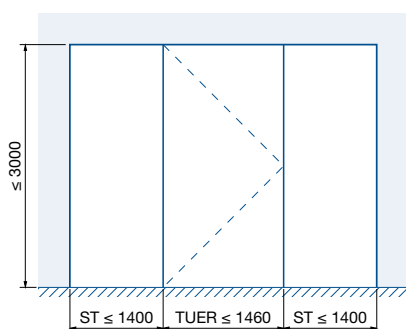
- Statics not required with these dimensions

#### HL 320 and HL 330 side element (vertical profile construction)



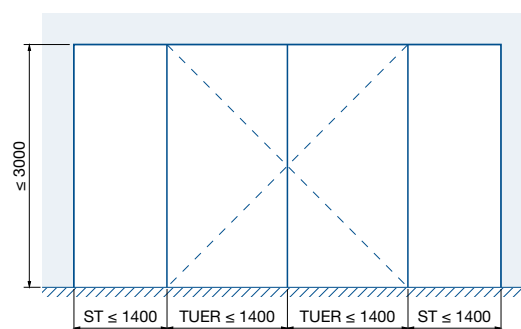
- Statics not required with these dimensions

#### HL 310 and HL 330 side elements (vertical profile construction)



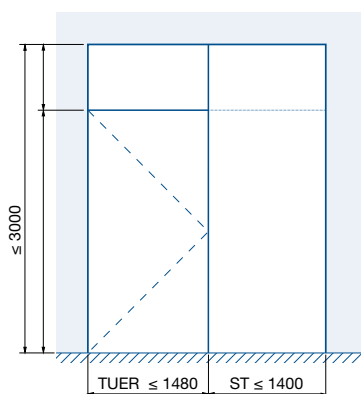
- Statics not required with these dimensions

#### HL 320 and HL 330 side elements (vertical profile construction)



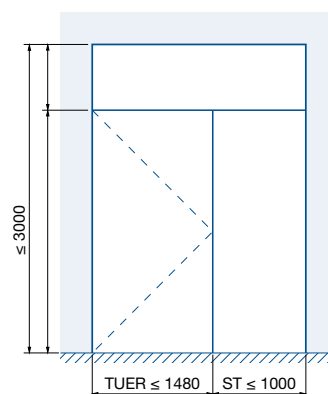
- Statics not required with these dimensions

#### HL 310, HL 330 continuous side element and HL 330 transom light (vertical / horizontal profile construction)



- Statics not required with these dimensions

#### HL 310, HL side element and HL 330 continuous transom light (vertical / horizontal profile construction)



- Statics not required with these dimensions

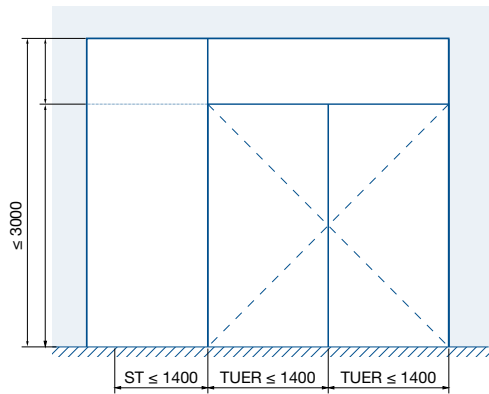


# Statics for steel fire protection elements

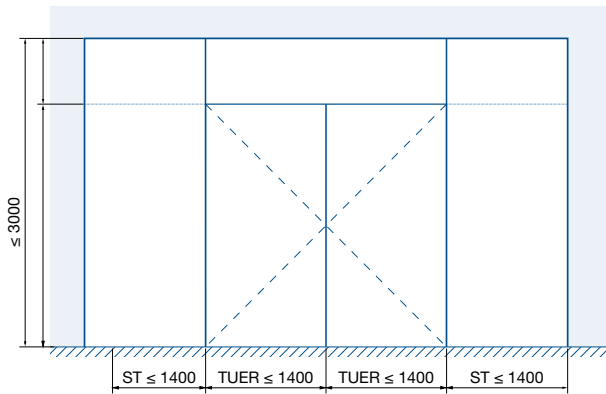
Notes on assemblies without additional statics profiles

HL 310, HL 320 and HL 330 (N-Line and S-Line)

HL 320 and HL 330 continuous side element and HL 330 transom light (vertical / horizontal profile construction)



- Statics not required with these dimensions



- Statics not required with these dimensions

# Steel fire-rated tubular frame construction project doors

With fascia frame, for interior use



## Product description S / RS 100 and S / RS 200

Subject to changes

### Product description S/RS 100 N-Line and S-Line (single-leaf) and S / RS 200 (double-leaf) N-Line and S-Line

(Standard version, special equipment subject to surcharge)

Smoke-tight, ready-to-fit door set, tested in accordance with DIN 18095 for interiors.

Each door assembly will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

#### ① Hinges and closing devices

- Sturdy hinges, three-way adjustable, single-leaf: 2 units, double-leaf: 4 units
- Security bolt: single-leaf: 2 units, double-leaf: 4 units
- Single-leaf: overhead door closer with slide rail acc. to DIN EN 1154
- Double-leaf: 2 overhead door closers with slide rail acc. to DIN EN 1154 with integrated door leaf selector

#### ② Fittings

- Tubular frame mortice lock without profile cylinder
- With aluminium round lever handle set offset on both sides, incl. cylinder rose escutcheon
- For double-leaf doors: fixed leaf with rebate locking bolt and switch latch

#### ③ Seals

- All-round EPDM door seal
- Lip seal and aluminium semi-circular threshold as door bottom edge
- All-round seals in glass rebate

#### ④ Design

- Galvanized steel tubular frame, primed or RAL to choose (powder-coated)

#### ⑤ Visible surfaces

- Steel profiles powder-coated or anodised
- Flush-fitting

#### N-Line

- Viewed width (frame and leaf) 168 mm
- Bottom section height 150 (84) mm
- Depth 60 mm

#### S-Line

- Viewed width (frame and leaf) 134 mm
- Bottom section height 76 mm
- Depth 60 mm

#### ⑥ Glazing

- Laminated safety glass 8 mm
- Glazing bead on hinge and opposite hinge side, secured on one side
- Weight with standard glazing approx. 35 kg/m²

#### Size range (overall frame dimensions)

##### Single-leaf:

##### N-Line

- With fascia frame:
  - Min. 643 × 1759 mm
  - Max. 1538 × 3020 mm
- With steel frame:
  - Min. 539 × 1707 mm
  - Max. 1434 × 2968 mm

##### S-Line

- With fascia frame:
  - Min. 605 × 1740 mm
  - Max. 1500 × 3020 mm
- With steel frame:
  - Min. 539 × 1707 mm
  - Max. 1434 × 2968 mm

##### Double-leaf:

##### N-Line

- With fascia frame:
  - Min. 1355 × 1759 mm
  - Max. 2890 × 3020 mm
- With steel frame:
  - Min. 1251 × 1707 mm
  - Max. 2786 × 2967 mm
  - Traffic leaf 500 – 1425 mm
  - Fixed leaf 500 – 1425 mm

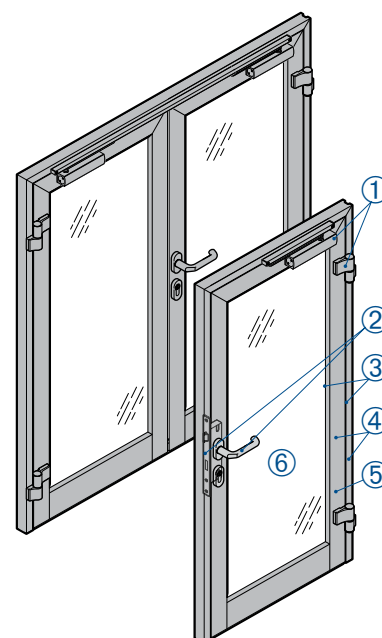
##### S-Line

- With fascia frame:
  - Min. 1317 × 1740 mm
  - Max. 2852 × 3001 mm
- With steel frame:
  - Min. 1251 × 1707 mm
  - Max. 2786 × 2968 mm
  - Traffic leaf 500 – 1425 mm
  - Fixed leaf 500 – 1425 mm

#### Maximum number of rails

- Vertical max. – 2 rails
- Horizontal max. – 3 rails

► Note the minimum overall width!



# Steel smoke protection tubular frame

With extensive glazing for interior use

## Product description S / RS 300

RS



Subject to changes

### Product description S/RS 300 – transom light, side element or fixed glazing

(Standard version, special equipment subject to surcharge)

Smoke-tight, ready-to-fit door set, tested in accordance with DIN 18095 for **interiors**.

Each fixed glazing will be individually manufactured according to measurements.

#### Standard version

(Special equipment subject to surcharge)

##### ① Seals

- All-round EPDM glazing seal

##### ② Design

- Galvanized steel tubular frame, primed or RAL to choose (powder-coated), flush-fitting

##### ③ Visible surfaces

- Galvanized steel profiles, primed
- Flush-fitting

##### N-Line

- Viewed width 84 mm
- Depth 60 mm

##### S-Line

- Viewed width 65 mm
- Depth 60 mm

##### ④ Glazing

- Laminated safety glass 8 mm
- Glazing bead on both sides, secured on one side
- Weight with standard glazing approx. 35 kg/m<sup>2</sup>

#### Notice:

The fire-proof glass (panel) is delivered in a crate.

#### Size range (overall frame dimensions)

Transom light

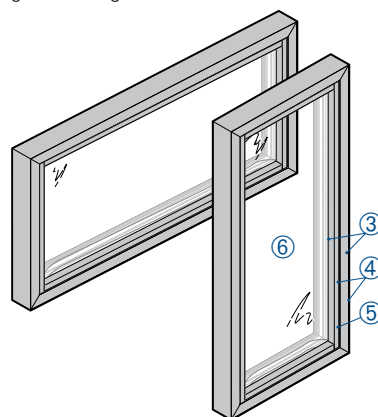
- Vertical or horizontal format without rail division
- Min. 300 × 300 mm
- Max. depending on glass type

Side element

- As indicated in the price grid

#### Larger RAM in width and height on request.

Depending on the glass selected, with glass-dividing rail.



# Steel smoke-tight door assemblies

With extensive glazing

## Product overview



### Clear passage

#### S/RS 100, S/RS 200 standard (tubular frame construction)

##### Standard deduction dimensions for clear passage width at 90° open door leaf without lever handles and handles

Standard deduction dimensions for clear passage width at 90° open door leaf without lever handles and handles								
	Single-leaf S/RS 100	Double-leaf S/RS 200 entire door	Single-leaf S/RS 100		Double-leaf S/RS 200 entire door		Double-leaf S/RS 200 traffic leaf	Double-leaf S/RS 200 traffic leaf vertical profile construction
			Vertical profile construction		Vertical profile construction			
				One-sided	On both sides	One-sided	On both sides	
	(= RAM minus dim. stated below)		(= division dim. minus dim. stated below)					
Aluminium door hinge with 20 mm pivot point	– 218 mm	– 268 mm	– 187 mm	– 155 mm	– 237 mm	– 205 mm	– 145 mm	– 114 mm
Aluminium door hinge with pivot point 36 mm	– 234 mm	– 300 mm	– 203 mm	– 171 mm	– 269 mm	– 237 mm	– 161 mm	– 130 mm
Steel guide roller weld-on hinge with pivot point 12 mm	– 215 mm	– 262 mm	– 184 mm	– 152 mm	– 230 mm	– 198 mm	– 142 mm	– 110 mm
Steel guide roller screw-on door hinge with pivot point 13 mm	– 217 mm	– 266 mm	– 186 mm	– 154 mm	– 234 mm	– 202 mm	– 144 mm	– 112 mm

- The values for the vertical profile constructions are based on a **105 mm** vertical rail (no difference if opening inwards or opening outwards)

##### Standard deduction dimensions for clear passage height

Calculation with retractable bottom seal	Single-leaf S/RS 100	Double-leaf S/RS 200	Single-leaf S/RS 100 Horizontal profile construction	Double-leaf S/RS 200 Horizontal profile construction
	(= RAM minus dim. stated below)		(= division dim. minus dim. stated below)	
Opening inwards	- 84 mm	- 84 mm	- 53 mm	- 53 mm
Opening outwards	- 84 mm	- 84 mm	- 53 mm	- 53 mm

#### S/RS 100, S/RS 200 S-Line (tubular frame construction)

##### S-Line – deduction dimensions for clear passage width at 90° open door leaf without lever handles and handles

S-Line – deduction dimensions for clear passage width at 90° open door leaf without lever handles and handles								
	Single-leaf S/RS 100	Double-leaf S/RS 200 entire door	Single-leaf S/RS 100		Double-leaf S/RS 200 entire door		Double-leaf S/RS 200 traffic leaf	Double-leaf S/RS 200 traffic leaf vertical profile construction
			Vertical profile construction		Vertical profile construction			
				One-sided	On both sides	One-sided	On both sides	
	(= RAM minus dim. stated below)		(= division dim. minus dim. stated below)					
Aluminium door hinge with 20 mm pivot point	– 180 mm	– 230 mm	– 160 mm	– 140 mm	– 210 mm	– 190 mm	– 126 mm	– 106 mm
Aluminium door hinge with pivot point 36 mm	– 196 mm	– 262 mm	– 176 mm	– 156 mm	– 242 mm	– 222 mm	– 142 mm	– 122 mm
Steel guide roller weld-on hinge with pivot point 12 mm	– 179 mm	– 227 mm	– 159 mm	– 137 mm	– 207 mm	– 187 mm	– 125 mm	– 105 mm
Steel guide roller screw-on door hinge with pivot point 13 mm	– 179 mm	– 227 mm	– 159 mm	– 139 mm	– 207 mm	– 187 mm	– 125 mm	– 105 mm

- The values for the vertical profile constructions are based on a **90 mm** vertical rail (no difference if opening inwards or opening outwards)

##### S-Line – deduction dimensions for clear passage height

Calculation with retractable bottom seal	Single-leaf S/RS 100	Double-leaf S/RS 200	Single-leaf S/RS 100 Horizontal profile construction	Double-leaf S/RS 200 Horizontal profile construction
	(= RAM minus dim. stated below)		(= division dim. minus dim. stated below)	
Opening inwards	- 65 mm	- 65 mm	- 45 mm	- 45 mm
Opening outwards	- 65 mm	- 65 mm	- 45 mm	- 45 mm

Good reasons to try Hörmann  
steel and aluminium tubular frame  
construction project doors



Maximum clear passage width

**Steel profile frame**

\* compared to door version with fascia frame

**HÖRMANN**

# Steel smoke-tight door assemblies

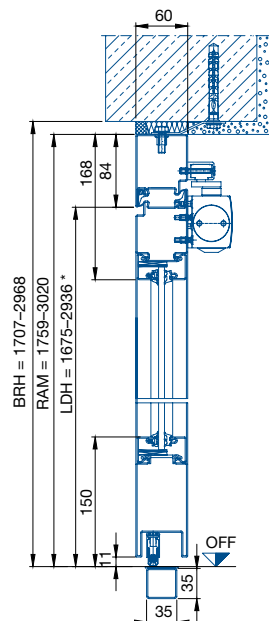
With extensive glazing

## Product overview

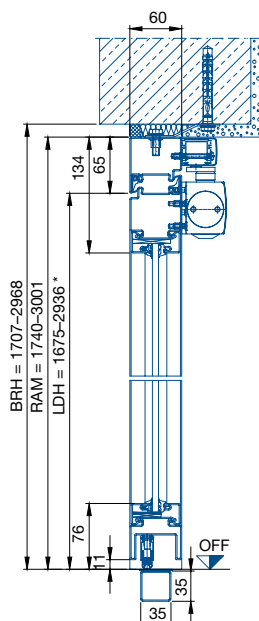


### Fitting dimensions

#### S / RS 100/200 steel

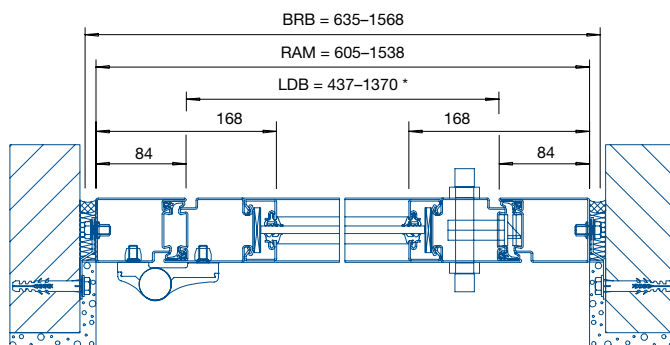


#### S / RS 100/200 steel S-Line

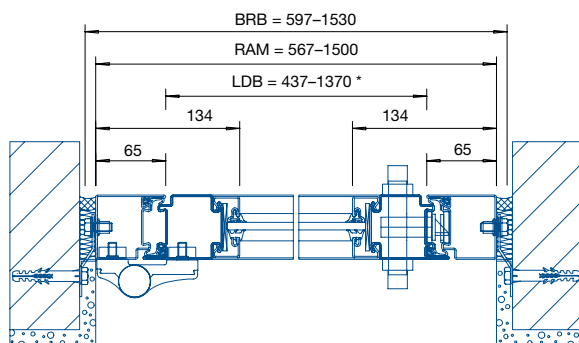


\* See page 224 – clear passage

#### S / RS 100 steel



#### S / RS 100 steel S-Line



ca.	Approx.
BRB	Nominal width
BRH	Nominal height
BRM	Nominal size
EBB	Fitting area width
EBH	Fitting area height
GE	Glass recess
LDB	Clear passage width
LDH	Clear passage height
OFF	Finished floor level
RAM	Overall frame dimension

# Steel smoke-tight door assemblies

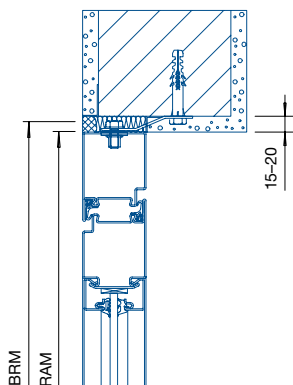
With extensive glazing

## Product overview

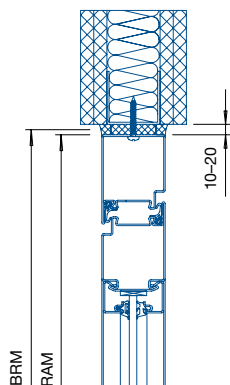


**Fitting methods for brickwork, concrete, gas concrete, partition walls** (see the fitting instructions for further fitting methods)

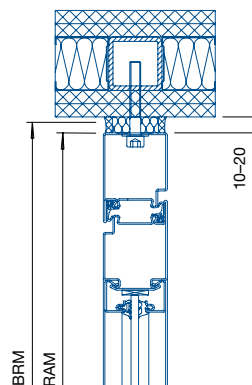
**S / RS 100 / 200 / 300 / steel, steel S-Line**



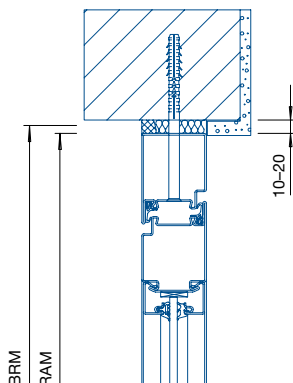
Anchor fitting  
with dowel bracket



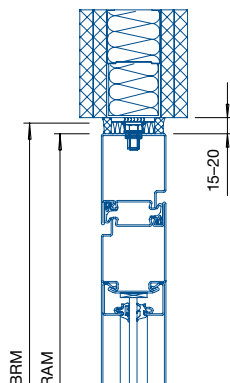
Screw fixing  
Prefabricated walls



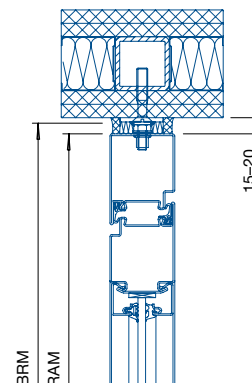
Screw fixing  
Prefabricated walls



Through-plug fitting  
Interior plaster

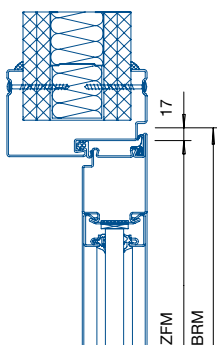


Fitting by welding  
Prefabricated walls

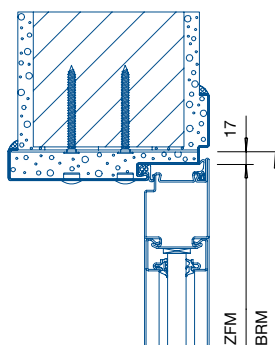


Fitting by welding  
Prefabricated walls

**S / RS 100 / 200 / steel, steel S-Line  
with corner and profile frames**



Screw fixing on profile frame for prefabricated  
walls



Anchor fitting with concealed dowel brackets  
on profile frame for solid walls

# Statics for steel smoke-tight door sets

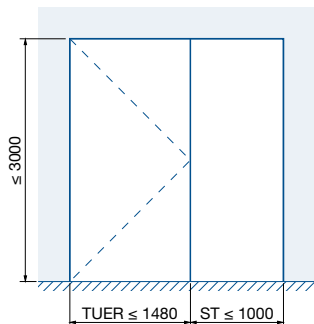
## Notes on assemblies without additional statics profiles

### S / RS 100, S / RS 200 and S / RS 300 (N-Line and S-Line)

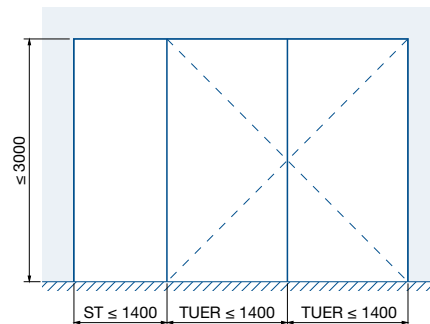
This page will assist you in finding the simplest design for smoke-tight door sets without the need to take statics into account. No fire protection profile H and no statics profile E will be required in the designs shown if the indicated maximum dimensions are complied with.

► **Larger dimensions must be checked using the Hörmann statics programme**

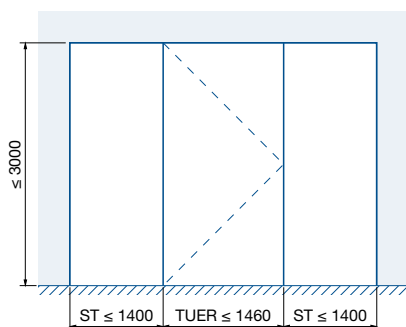
#### S / RS 100 and S / RS 300 side element (vertical profile construction)



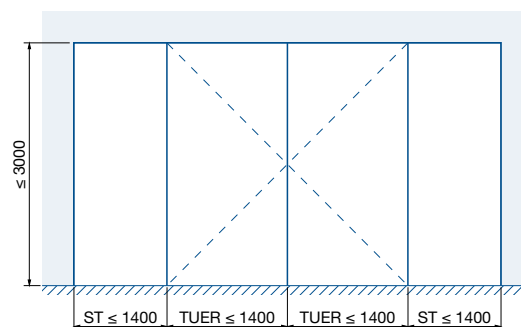
#### S / RS 200 and S / RS 300 side element (vertical profile construction)



#### S / RS 100 and S / RS 300 side elements (vertical profile construction)



#### S / RS 200 and S / RS 300 side elements (vertical profile construction)



RAM	Overall frame dimension
GF	Traffic leaf
SF	Fixed leaf
ST	Side element
TUER	Door

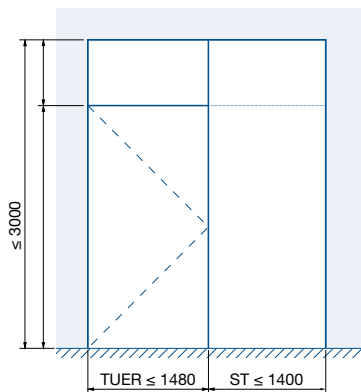


# Statics for steel smoke-tight door sets

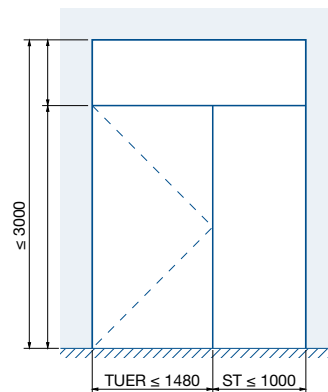
Notes on assemblies without additional statics profiles

S / RS 100, S / RS 200 and S / RS 300 (N-Line and S-Line)

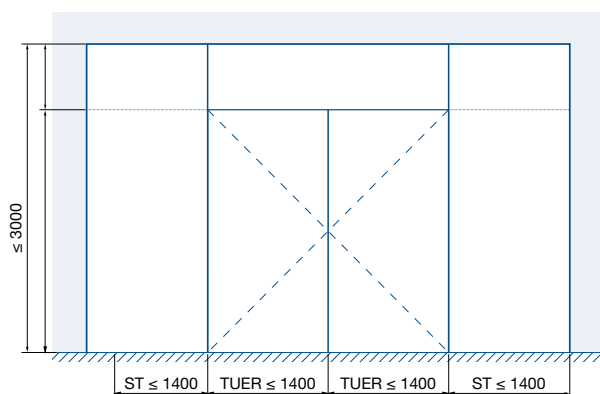
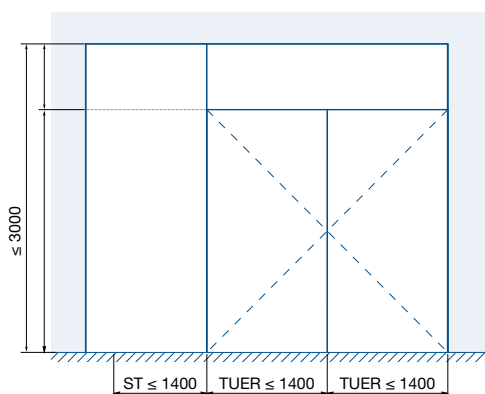
S / RS 100, S / RS 300 continuous side element and S / RS 300 transom light  
(vertical / horizontal profile construction)



S / RS 100, S / RS 300 side element and S / RS 300 continuous transom light  
(vertical / horizontal profile construction)



S / RS 200 and S / RS 300 continuous side element and S / RS 300 transom light  
(vertical / horizontal profile construction)



**RAM** Overall frame dimension  
**GF** Traffic leaf  
**SF** Fixed leaf  
**ST** Side element  
**TUER** Door

# Good reasons to try Hörmann aluminium tubular frame construction project doors



Up to  
**55 mm**  
wider clear  
passage width

Elegant door view without visible frame face

## Frame without face

\* compared to door version with fascia frame

# HÖRMANN

# Steel tubular frame parts

## Contents

<b>Product overview</b>	<b>From page 14</b>
-------------------------	---------------------



<b>Steel fire-rated doors</b>	<b>From page</b>
<b>T30 / EI<sub>230</sub></b>	
T30-1 door HL 310 N- and S-Line	Single-leaf <b>Fire-retarding and smoke-tight</b> <b>242</b>
T30-2 door HL 320 N- and S-Line	Double-leaf <b>Fire-retarding and smoke-tight</b> <b>244</b>
F30 transom lights and side elements HL 330	<b>Fire-retarding and smoke-tight</b> <b>250</b>
<b>Frames for T30 fire-rated doors</b>	
Corner and profile frames	<b>256</b>
<b>T90</b>	
T90-1 door HL 910 F	Single-leaf <b>Fire-proof and smoke-tight</b> <b>260</b>
T90-2 door HL 920 F	Double-leaf <b>Fire-proof and smoke-tight</b> <b>262</b>
F90 transom lights and side elements HL 930 F	<b>Fire-proof and smoke-tight</b> <b>264</b>



<b>Steel smoke-tight door assemblies</b>	
<b>Smoke-tight door assemblies</b>	
S / RS 100 door N- and S-Line	Single-leaf <b>272</b>
S / RS 200 door N- and S-Line	Double-leaf <b>274</b>
S / RS 300 glazing	<b>280</b>
<b>Frames for smoke-tight door assemblies</b>	
Corner and profile frames	<b>256</b>

<b>Overhead door closers</b>	<b>From page 310</b>
------------------------------	----------------------

<b>Fittings and optional extras</b>	<b>From page 308</b>
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<b>Operators</b>	<b>From page 316</b>
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# HL 310 N-Line, HL 310 S-Line – steel hollow profiled section door

T30

## T30 fire-rated doors, single-leaf

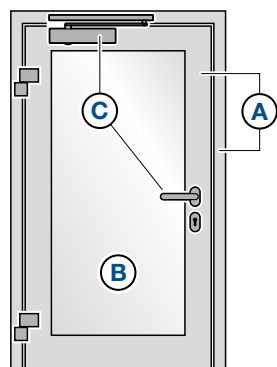
Approved as	<b>T30 internal door</b>	<b>T30 internal door</b>
	<b>HL 310 N-Line</b>	<b>HL 310 S-Line</b>
Depth [mm]	60	60
RAM width (min – max) [mm]	605 – 1600	567 – 1562
RAM height (min – max) [mm]	1740 – 3020	1721 – 3001
Approved as	<b>T30 internal door</b>	<b>T30 internal door</b>
Optional additional functions	RS dB RC 2	RS dB RC 2

### Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

HL 310 N-Line and S-Line

See page 218



### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

### Already included in the price:

- 1 x mortice lock BKS 1828
- 2 x 3-way adjustable door hinge Hahn 4, EV 1, 20 mm pivot point, two-part

### ► State opening sense on order!

\* Fittings for RAL colours in aluminium natural finish as standard. For an overview of available surface finishes, see page 226



### Frame / leaf

Ordering sizes (RAM) up to width x up to height			Frame / leaf HL 310 N-Line HL 310 S-Line RAL 9016	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1020	x	2010	<b>3232</b>	1,41	146	189	284
		2135	<b>3301</b>	1,50	150	194	292
		2290	<b>3388</b>	1,62	153	199	298
		2385	<b>3451</b>	1,69	157	205	306
		2510	<b>3516</b>	1,78	161	209	314
		2600	<b>3627</b>	1,89	164	212	318
		2710	<b>3669</b>	1,95	165	215	322
		2885	<b>3768</b>	2,08	168	219	328
		3000	<b>3832</b>	2,17	170	221	332
1145	x	2010	<b>3339</b>	1,63	152	198	297
		2135	<b>3413</b>	1,74	156	203	305
		2290	<b>3506</b>	1,88	158	206	308
		2385	<b>3573</b>	1,97	162	211	316
		2510	<b>3642</b>	2,07	165	215	322
		2600	<b>3759</b>	2,19	167	217	325
		2710	<b>3803</b>	2,26	169	220	330
		2885	<b>3908</b>	2,42	174	226	341
		3000	<b>3977</b>	2,52	180	234	349
1270	x	2010	<b>3447</b>	1,86	157	205	306
		2135	<b>3526</b>	1,99	161	209	314
		2290	<b>3624</b>	2,15	165	215	322
		2385	<b>3695</b>	2,24	167	217	325
		2510	<b>3768</b>	2,36	169	220	330
		2600	<b>3889</b>	2,50	171	222	334
		2710	<b>3937</b>	2,58	174	226	341
		2885	<b>4047</b>	2,75	182	236	354
		3000	<b>4121</b>	2,87	184	238	358
1370	x	2010	<b>3533</b>	2,04	162	211	316
		2135	<b>3616</b>	2,18	165	215	322
		2290	<b>3718</b>	2,36	169	220	330
		2385	<b>3792</b>	2,46	171	222	334
		2510	<b>3869</b>	2,59	174	226	341
		2600	<b>3994</b>	2,74	180	234	349
		2710	<b>4043</b>	2,83	183	237	355
		2885	<b>4159</b>	3,02	187	242	364
		3000	<b>4236</b>	3,15	189	247	370
1500	x	2010	<b>3645</b>	2,28	167	217	325
		2135	<b>3732</b>	2,44	173	225	334
		2290	<b>3840</b>	2,63	179	230	343
		2385	<b>3919</b>	2,75	185	236	353
		2510	<b>4000</b>	2,89	190	243	362
		2600	<b>4130</b>	3,06	196	249	373
		2710	<b>4182</b>	3,16	204	255	383
		2885	<b>4305</b>	3,37	210	261	389
		3000	<b>4385</b>	3,52	215	269	402

# Glazings, door fittings, additional functions

HL 310 N-Line, HL 310 S-Line – steel hollow profiled section door



**B**

## Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 223!)

Per leaf 198

### For interior applications

	No.	Max. glass dimensions	Per m² €
<b>Standard F30 glazing</b>	<b>521</b>	1400 × 3000 mm	<b>836</b>
F30 glazing with transparent PVB plastic film	<b>507</b>	1400 × 3000 mm	<b>1184</b>
F30 glazing with matt PVB plastic film	<b>508</b>	1400 × 2500 mm	<b>1456</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)	<b>502</b>	1200 × 2500 mm	<b>771</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)	<b>506</b>	1200 × 2500 mm	<b>1120</b>
<b>For external applications</b>	<b>No.</b>	<b>Max. glass dimensions</b>	<b>Per m² €</b>
<b>F30 insulated glazing (as standard for external applications, U-value: 1.1)</b>	<b>408</b>	1250 × 3000 mm	<b>1309</b>
F30 insulated glazing with matt PVB plastic film	<b>662</b>	1250 × 3000 mm	<b>1965</b>

**C**

## Door fitting / additional function

Surcharge €



- **Lever handle set D116**, oval rose escutcheon PC

Standard Aluminium 98

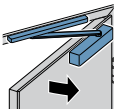
Stainless steel 137



- **Lever / knob handle set D116 with knob K116**, oval rose escutcheon PC

Aluminium 147

Stainless steel 216



- **TS 5000 EN 2 – 6** with slide rail
- Fitting on opening side (hinge side)
- RAM width min. 605 mm, max. 1500 mm

Standard Silver-coloured 308

RAL stainless steel design 328



- Mortice lock BKS 1828

Standard



- Mortice lock BKS 1820 for change-over function B

Anti-panic function, single-leaf / half anti-panic, double-leaf 298

- Mortice lock BKS 1824 for passage function D

Anti-panic function, single-leaf / half anti-panic, double-leaf 227

- Mortice lock BKS 1826 for lever / knob function E

Anti-panic function, single-leaf / half anti-panic, double-leaf 144



- Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable
- ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator

EV1 Standard

RAL to choose 62

Stainless steel look 86



- Steel screw-on guide roller, two-part, 3-way adjustable
- ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator

RAL to choose 86

Stainless steel 123

## Smoke-tight acc. to DIN 18095 / DIN EN 1634-3



### Retractable bottom seal

- For fitting on a smooth, level floor

Single-leaf 175

### Delayed retractable bottom seal

- Suitable with different pressure ratios (loading houses)
- For fitting on a smooth, level floor

Single-leaf 325



### Floor covering transition profile

Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor

Single-leaf 36

## Accessories

### Glazings and infills

See from page 288

### RC 2 security equipment acc. to DIN EN 1627

See page 294

### Fittings

Lever handle sets, profile cylinders, locks, door closers, operators, hold-open devices and electric extras

See from page 308



### Door closers, hold-open devices and operators

See from page 310

# HL 320 N-Line and S-Line – steel hollow profiled section door

T30

T30 fire-rated doors, double-leaf

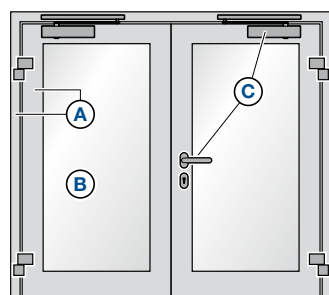
Approved as	T30 internal door	T30 internal door
	HL 320 N-Line	HL 320 S-Line
Depth [mm]	60	60
RAM width (min – max) [mm]	1355 – 3050	1317 – 3012
RAM height (min – max) [mm]	1740 – 3020	1721 – 3001
Optional additional functions	RS dB RC 2 	RS dB RC 2 

## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

HL 320 N-Line and S-Line

See page 218



### Door set price =

- Ⓐ Frame/leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting/additional function

### Already included in the price:

- 1 x mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 x 3-way adjustable door hinge Hahn 4, EV 1, 20 mm pivot point, two-part

### ► State opening sense on order!

- \* Fittings for RAL colours in aluminium natural finish as standard. For an overview of available surface finishes, see page 226



## Frame / leaf

Ordering sizes (RAM) up to width x up to height			Frame / leaf HL 320 N-Line HL 320 S-Line RAL 9016	m² Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1500	x	2010	<b>5292</b>	2,06	242	316	475
		2135	<b>5379</b>	2,20	247	321	480
		2290	<b>5486</b>	2,38	253	328	493
		2385	<b>5568</b>	2,49	255	332	498
		2510	<b>5648</b>	2,62	260	340	509
		2600	<b>5792</b>	2,77	262	342	512
		2710	<b>5844</b>	2,86	269	348	522
		2885	<b>5967</b>	3,05	273	355	533
		3000	<b>6046</b>	3,18	275	358	536
1645	x	2010	<b>5403</b>	2,29	248	323	485
		2135	<b>5495</b>	2,45	253	328	493
		2290	<b>5608</b>	2,64	260	340	509
		2385	<b>5693</b>	2,76	262	342	512
		2510	<b>5778</b>	2,91	269	348	522
		2600	<b>5927</b>	3,08	271	350	527
		2710	<b>5981</b>	3,17	274	356	534
		2885	<b>6110</b>	3,39	279	364	548
		3000	<b>6194</b>	3,53	284	369	552
1770	x	2010	<b>5516</b>	2,52	254	329	495
		2135	<b>5611</b>	2,69	258	334	504
		2290	<b>5730</b>	2,90	268	346	518
		2385	<b>5819</b>	3,04	270	349	526
		2510	<b>5907</b>	3,19	273	355	533
		2600	<b>6061</b>	3,38	276	360	541
		2710	<b>6119</b>	3,49	279	364	548
		2885	<b>6253</b>	3,73	287	372	560
		3000	<b>6342</b>	3,89	291	378	567
1895	x	2010	<b>5627</b>	2,74	260	340	509
		2135	<b>5728</b>	2,93	268	346	518
		2290	<b>5851</b>	3,17	272	353	530
		2385	<b>5945</b>	3,31	273	355	533
		2510	<b>6037</b>	3,48	277	361	542
		2600	<b>6195</b>	3,69	281	367	551
		2710	<b>6256</b>	3,80	287	372	560
		2885	<b>6397</b>	4,06	292	379	568
		3000	<b>6490</b>	4,24	296	384	578
2020	x	2010	<b>5738</b>	2,97	268	346	518
		2135	<b>5843</b>	3,18	271	350	527
		2290	<b>5973</b>	3,43	275	358	536
		2385	<b>6070</b>	3,58	277	361	542
		2510	<b>6167</b>	3,77	284	369	552
		2600	<b>6331</b>	3,99	287	372	560
		2710	<b>6394</b>	4,12	292	379	568
		2885	<b>6541</b>	4,40	298	388	583
		3000	<b>6638</b>	4,59	305	398	597

# Glazings, door fittings, additional functions

## HL 320 – steel hollow profiled section door



B	Glazing (standard delivery glass / panel separate)		Surcharge €	
	Fitting of the glass or panel at the factory (observe the order information on page 223!)		Per leaf	198
For interior applications		No.	Max. glass dimensions	Per m² €
<b>Standard F30 glazing</b>		<b>521</b>	1400 × 3000 mm	<b>836</b>
F30 glazing with transparent PVB plastic film		<b>507</b>	1400 × 3000 mm	<b>1184</b>
F30 glazing with matt PVB plastic film		<b>508</b>	1400 × 2500 mm	<b>1456</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)		<b>502</b>	1200 × 2500 mm	<b>771</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)		<b>506</b>	1200 × 2500 mm	<b>1120</b>
For external applications		No.	Max. glass dimensions	Per m² €
<b>F30 insulated glazing (as standard for external applications, U-value: 1.1)</b>		<b>408</b>	1250 × 3000 mm	<b>1309</b>
F30 insulated glazing with matt PVB plastic film		<b>662</b>	1250 × 3000 mm	<b>1965</b>

C Door fitting / additional function		Surcharge €	
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	Standard	Aluminium <b>98</b>
			Stainless steel <b>137</b>
	• <b>Lever / knob handle set D116 with knob K116</b> , oval rose escutcheon PC		Aluminium <b>147</b>
			Stainless steel <b>216</b>
	• <b>TS 5000 ISM</b> with slide rail • Fitting on opening side (hinge side) • Opening angle 173°	Standard	Silver-coloured <b>646</b>
			RAL to choose <b>797</b>
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)		Standard
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>729</b>
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>560</b>
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf	<b>565</b>
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator	EV1	Standard
		RAL to choose	<b>62</b>
		Stainless steel look	<b>86</b>
	• Steel screw-on guide roller, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator	RAL to choose	<b>86</b>
		Stainless steel	<b>123</b>
Smoke-tight acc. to DIN 18095 / DIN EN 1634-3			
	<b>Retractable bottom seal</b>	Double-leaf	<b>350</b>
	• For fitting on a smooth, level floor		
	<b>Delayed retractable bottom seal</b>	Double-leaf	<b>650</b>
	• Suitable with different pressure ratios (loading houses)		
	• For fitting on a smooth, level floor		
	<b>Floor covering transition profile</b>	Double-leaf	<b>72</b>
	Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor		



### Accessories

<b>Glazings and infills</b>	See from page 288
<b>RC 2 security equipment acc. to DIN EN 1627</b>	See page 294
<b>Fittings</b> Lever handle sets, profile cylinders, locks, door closers, operators, hold-open devices and electric extras	See from page 308
<b>Door closers, hold-open devices and operators</b>	See from page 310

# HL 320 N-Line and S-Line – steel hollow profiled section door

T30

T30 fire-rated doors, double-leaf

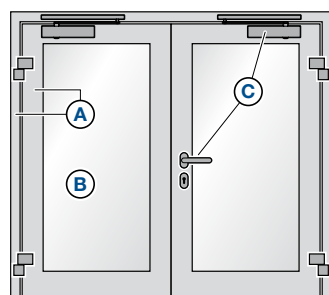
Approved as	T30 internal door	T30 internal door
	HL 320 N-Line	HL 320 S-Line
Depth [mm]	60	60
RAM width (min – max) [mm]	1355 – 3050	1317 – 3012
RAM height (min – max) [mm]	1740 – 3020	1721 – 3001
Optional additional functions	RS dB RC 2 	RS dB RC 2 

## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

HL 320 N-Line and S-Line

See page 218



### Door set price =

- A** Frame/leaf
- + **B** Glazings
- + **C** Door fitting/ additional function

### Already included in the price:

- 1 x mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 x 3-way adjustable door hinge Hahn 4, EV 1, 20 mm pivot point, two-part

### ► State opening sense on order!

- \* Fittings for RAL colours in aluminium natural finish as standard. For an overview of available surface finishes, see page 226



## Frame / leaf

Ordering sizes (RAM) up to width x up to height			Frame / leaf HL 320 N-Line HL 320 S-Line RAL 9016	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2145	x	2010	<b>5850</b>	3,20	271	350	527
		2135	<b>5959</b>	3,42	275	358	536
		2290	<b>6095</b>	3,69	280	366	549
		2385	<b>6195</b>	3,86	286	371	556
		2510	<b>6296</b>	4,06	291	378	567
		2600	<b>6465</b>	4,30	294	382	573
		2710	<b>6531</b>	4,43	298	388	583
		2885	<b>6684</b>	4,74	306	399	598
		3000	<b>6786</b>	4,94	312	405	606
2270	x	2010	<b>5962</b>	3,43	274	356	534
		2135	<b>6075</b>	3,66	279	364	548
		2290	<b>6216</b>	3,95	287	372	560
		2385	<b>6321</b>	4,13	291	378	567
		2510	<b>6426</b>	4,35	296	384	578
		2600	<b>6599</b>	4,60	299	389	585
		2710	<b>6669</b>	4,75	306	399	598
		2885	<b>6828</b>	5,07	312	405	606
		3000	<b>6933</b>	5,29	316	410	617
2395	x	2010	<b>6073</b>	3,65	279	364	548
		2135	<b>6191</b>	3,91	286	371	556
		2290	<b>6338</b>	4,22	292	379	568
		2385	<b>6446</b>	4,41	296	384	578
		2510	<b>6556</b>	4,64	304	396	593
		2600	<b>6735</b>	4,91	306	399	598
		2710	<b>6806</b>	5,06	312	405	606
		2885	<b>6972</b>	5,41	318	413	620
		3000	<b>7081</b>	5,64	324	422	632
2500	x	2010	<b>6185</b>	3,88	284	369	552
		2135	<b>6308</b>	4,15	290	377	564
		2290	<b>6460</b>	4,48	296	384	578
		2385	<b>6572</b>	4,68	303	394	590
		2510	<b>6685</b>	4,93	307	400	600
		2600	<b>6869</b>	5,22	312	405	606
		2710	<b>6942</b>	5,38	316	410	617
		2885	<b>7115</b>	5,75	325	423	634
		3000	<b>7229</b>	5,99	328	427	641
2645	x	2010	<b>6296</b>	4,11	290	377	564
		2135	<b>6423</b>	4,39	295	383	574
		2290	<b>6581</b>	4,74	304	396	593
		2385	<b>6698</b>	4,96	306	399	598
		2510	<b>6815</b>	5,22	313	406	607
		2600	<b>7003</b>	5,52	316	410	617
		2710	<b>7080</b>	5,69	324	422	632
		2885	<b>7259</b>	6,09	329	430	645
		3000	<b>7377</b>	6,34	334	435	654



# Glazings, door fittings, additional functions

## HL 320 – steel hollow profiled section door



B	Glazing (standard delivery glass / panel separate)			Surcharge €
	Fitting of the glass or panel at the factory (observe the order information on page 223!)			Per leaf 198
For interior applications		No.	Max. glass dimensions	Per m² €
Standard F30 glazing		521	1400 × 3000 mm	836
F30 glazing with transparent PVB plastic film		507	1400 × 3000 mm	1184
F30 glazing with matt PVB plastic film		508	1400 × 2500 mm	1456
F30 fire protection panel (2 × sheet steel, interior fire-proof core)		502	1200 × 2500 mm	771
F30 fire protection panel (2 × sheet steel, interior fire-proof core)		506	1200 × 2500 mm	1120
For external applications		No.	Max. glass dimensions	Per m² €
F30 insulated glazing (as standard for external applications, U-value: 1.1)		408	1250 × 3000 mm	1309
F30 insulated glazing with matt PVB plastic film		662	1250 × 3000 mm	1965

C Door fitting / additional function		Surcharge €	
	<ul style="list-style-type: none"><li>Lever handle set D116, oval rose escutcheon PC</li></ul>	Standard	Aluminium 98
			Stainless steel 137
	<ul style="list-style-type: none"><li>Lever / knob handle set D116 with knob K116, oval rose escutcheon PC</li></ul>		Aluminium 147
			Stainless steel 216
	<ul style="list-style-type: none"><li>TS 5000 ISM with slide rail</li><li>Fitting on opening side (hinge side)</li><li>Opening angle 173°</li></ul>	Standard	Silver-coloured 646
			RAL to choose 797
	<ul style="list-style-type: none"><li>Mortice lock BKS 1828 including espagnolette lock (fixed leaf)</li></ul>		Standard
	<ul style="list-style-type: none"><li>Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	729
	<ul style="list-style-type: none"><li>Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	560
	<ul style="list-style-type: none"><li>Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock</li></ul>	Anti-panic function double-leaf	565
	<ul style="list-style-type: none"><li>Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable</li></ul> <p>⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator</p>	EV1	Standard
		RAL to choose	62
		Stainless steel look	86
		RAL to choose	86
	<ul style="list-style-type: none"><li>Steel screw-on guide roller, two-part, 3-way adjustable</li></ul> <p>⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator</p>	Stainless steel	123
Smoke-tight acc. to DIN 18095 / DIN EN 1634-3			
	<b>Retractable bottom seal</b>	Double-leaf	350
	<ul style="list-style-type: none"><li>For fitting on a smooth, level floor</li></ul>		
	<b>Delayed retractable bottom seal</b>	Double-leaf	650
	<ul style="list-style-type: none"><li>Suitable with different pressure ratios (loading houses)</li><li>For fitting on a smooth, level floor</li></ul>		
	<b>Floor covering transition profile</b>	Double-leaf	72
	Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor		



### Accessories

<b>Glazings and infills</b>	See from page 288
<b>RC 2 security equipment acc. to DIN EN 1627</b>	See page 294
<b>Fittings</b>	See from page 308
Lever handle sets, profile cylinders, locks, door closers, operators, hold-open devices and electric extras	
<b>Door closers, hold-open devices and operators</b>	See from page 310

# HL 320 N-Line and S-Line – steel hollow profiled section door

T30

## T30 fire-rated doors, double-leaf

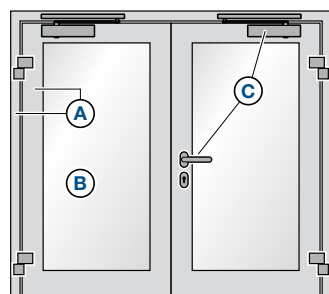
Approved as	<b>T30 internal door</b>	<b>T30 internal door</b>
	<b>HL 320 N-Line</b>	<b>HL 320 S-Line</b>
Depth [mm]	60	60
RAM width (min – max) [mm]	1355 – 3050	1317 – 3012
RAM height (min – max) [mm]	1740 – 3020	1721 – 3001
Optional additional functions	RS dB RC 2 	RS dB RC 2 

### Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

HL 320 N-Line and S-Line

See page 218



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 1 x mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 x 3-way adjustable door hinge Hahn 4, EV 1, 20 mm pivot point, two-part



### Frame / leaf

Ordering sizes (RAM) up to width x up to height			Frame / leaf HL 320 N-Line HL 320 S-Line RAL 9016	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2770	x	2010	<b>6407</b>	4,34	292	379	568
		2135	<b>6540</b>	4,63	299	389	585
		2290	<b>6703</b>	5,00	307	400	600
		2385	<b>6823</b>	5,23	312	405	606
		2510	<b>6945</b>	5,50	316	410	617
		2600	<b>7138</b>	5,83	321	415	623
		2710	<b>7217</b>	6,01	328	427	641
		2885	<b>7403</b>	6,42	334	435	654
		3000	<b>7525</b>	6,70	341	442	664
2850	x	2010	<b>6479</b>	4,48	298	388	583
		2135	<b>6614</b>	4,79	306	399	598
		2290	<b>6781</b>	5,17	313	406	607
		2385	<b>6904</b>	5,41	316	410	617
		2510	<b>7028</b>	5,69	324	422	632
		2600	<b>7225</b>	6,02	328	427	641
		2710	<b>7305</b>	6,21	332	432	648
		2885	<b>7495</b>	6,64	341	442	664
		3000	<b>7619</b>	6,92	347	452	679
2950	x	2010	<b>6568</b>	4,48	306	399	598
		2135	<b>6706</b>	4,79	312	405	606
		2290	<b>6878</b>	5,17	318	413	620
		2385	<b>7004</b>	5,41	325	423	634
		2510	<b>7132</b>	5,69	330	431	646
		2600	<b>7332</b>	6,02	333	433	650
		2710	<b>7415</b>	6,21	340	441	660
		2885	<b>7609</b>	6,64	349	455	682
		3000	<b>7737</b>	6,92	356	463	694

► State opening sense on order!

\* Fittings for RAL colours in aluminium natural finish as standard. For an overview of available surface finishes, see page 226

# Glazings, door fittings, additional functions

## HL 320 – steel hollow profiled section door



**B**

### Glazing (standard delivery glass / panel separate)

**Surcharge €**

Fitting of the glass or panel at the factory (observe the order information on page 223!)

Per leaf **198**

#### For interior applications

	No.	Max. glass dimensions	Per m <sup>2</sup> €
<b>Standard F30 glazing</b>	<b>521</b>	1400 × 3000 mm	<b>836</b>
F30 glazing with transparent PVB plastic film	<b>507</b>	1400 × 3000 mm	<b>1184</b>
F30 glazing with matt PVB plastic film	<b>508</b>	1400 × 2500 mm	<b>1456</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)	<b>502</b>	1200 × 2500 mm	<b>771</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)	<b>506</b>	1200 × 2500 mm	<b>1120</b>
<b>For external applications</b>	<b>No.</b>	<b>Max. glass dimensions</b>	<b>Per m<sup>2</sup> €</b>
<b>F30 insulated glazing (as standard for external applications, U-value: 1.1)</b>	<b>408</b>	1250 × 3000 mm	<b>1309</b>
F30 insulated glazing with matt PVB plastic film	<b>662</b>	1250 × 3000 mm	<b>1965</b>

**C**

### Door fitting / additional function

**Surcharge €**



- **Lever handle set D116**, oval rose escutcheon PC

*Standard* Aluminium **98**

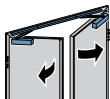
Stainless steel **137**



- **Lever / knob handle set D116 with knob K116**, oval rose escutcheon PC

Aluminium **147**

Stainless steel **216**



- **TS 5000 ISM** with slide rail
- Fitting on opening side (hinge side)
- Opening angle 173°

*Standard* Silver-coloured **646**

RAL to choose **797**



- Mortice lock BKS 1828 including espagnolette lock (fixed leaf)

*Standard*



- Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock
- Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock
- Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock

Anti-panic function double-leaf **729**

Anti-panic function double-leaf **560**

Anti-panic function double-leaf **565**



- Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable
- ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator

EV1 *Standard*

RAL to choose **62**

Stainless steel look **86**



- Steel screw-on guide roller, two-part, 3-way adjustable
- ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator

RAL to choose **86**

Stainless steel **123**

### Smoke-tight acc. to DIN 18095 / DIN EN 1634-3



#### Retractable bottom seal

- For fitting on a smooth, level floor

Double-leaf **350**

#### Delayed retractable bottom seal

- Suitable with different pressure ratios (loading houses)
- For fitting on a smooth, level floor

Double-leaf **650**



#### Floor covering transition profile

Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor

Double-leaf **72**

### Accessories

#### Glazings and infills

See from page 288

#### RC 2 security equipment acc. to DIN EN 1627

See page 294

#### Fittings

Lever handle sets, profile cylinders, locks, door closers, operators, hold-open devices and electric extras

See from page 308





#### Door closers, hold-open devices and operators

See from page 310

# HL 330 N-Line and S-Line – steel fixed glazing

F30

Fire-rated glazings F30 / EI<sub>2</sub>30  
as a transom light, side element or fixed glazing

Approved as	Internal fixed glazing F30	Internal fixed glazing F30
	HL 330 N-Line	HL 330 S-Line
Depth [mm]	60	60
RAM width (max) [mm]	6000	6000
RAM height (max) [mm]	4500	4500
Optional additional functions	  RC 2 TRAV	  RC 2 TRAV

## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

HL 330 N-Line

HL 330 S-Line

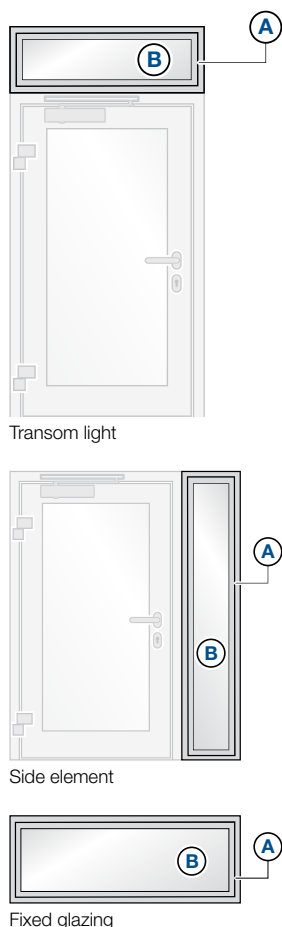
See page 219

		Fixed glazing HL 330		Surface coating <sup>4)</sup> Surcharge		
Ordering sizes (RAM) up to width × up to height		Frame price HL 330 RAL 9016	m <sup>2</sup> Glazing area <sup>3)</sup>	Preferred colour	RAL to choose	Special colour
Transom light	520 × 510	576	0,50	43	55	83
	520 × 635	657	0,50	47	59	89
	520 × 760	737	0,50	49	63	97
	520 × 885	818	0,50	55	71	107
	520 × 1040	898	0,50	61	80	120
	520 × 1135	979	0,50	62	81	123
	520 × 1260	1060	0,50	67	87	131
	520 × 1395	1098	0,54	71	91	139
	520 × 1500	1156	0,58	72	92	141
	645 × 510	655	0,50	47	59	89
Side element	645 × 635	753	0,50	50	65	98
	645 × 760	851	0,50	56	73	110
	645 × 885	949	0,50	62	81	123
	645 × 1040	1040	0,51	67	87	131
	645 × 1135	1096	0,56	70	90	137
	645 × 1260	1137	0,63	72	92	141
	645 × 1395	1167	0,70	76	99	148
	645 × 1500	1227	0,76	78	102	152
	770 × 510	734	0,50	50	65	98
	770 × 635	850	0,50	56	73	110
Fixed glazing	770 × 760	965	0,50	63	83	124
	770 × 885	1065	0,52	66	86	130
	770 × 1040	1090	0,63	71	91	139
	770 × 1135	1156	0,69	75	98	146
	770 × 1260	1206	0,77	76	99	148
	770 × 1395	1235	0,86	80	104	156
	770 × 1500	1307	0,93	80	104	156
	895 × 510	814	0,50	54	70	105
	895 × 635	946	0,50	61	80	120
	895 × 760	1063	0,52	67	87	131
Door set price =						
+ (A) Frame						
+ (B) Glazing						
	895 × 885	1114	0,62	71	91	139
	895 × 1040	1149	0,74	75	98	146
	895 × 1135	1217	0,82	78	102	152
	895 × 1260	1267	0,92	80	104	156
	895 × 1395	1295	1,03	81	106	159
	895 × 1500	1378	1,11	84	108	164

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 226

► For additional size ranges, see next page



**A**

### Fixed glazing HL 330

Ordering sizes (RAM) up to width × up to height			Frame price  HL 330 RAL 9016	m <sup>2</sup> Glazing area <sup>3)</sup>	Surface coating <sup>4)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1020	×	510	<b>893</b>	0,50	59	78	115
		635	<b>1043</b>	0,50	66	86	130
		760	<b>1112</b>	0,60	71	91	139
		885	<b>1164</b>	0,72	75	98	146
		1040	<b>1200</b>	0,86	79	103	153
		1135	<b>1277</b>	0,95	80	104	156
		1260	<b>1336</b>	1,06	81	106	159
		1395	<b>1363</b>	1,19	85	109	165
1145	×	1500	<b>1457</b>	1,28	86	112	168
		510	<b>972</b>	0,50	63	83	124
		635	<b>1091</b>	0,56	71	91	139
		760	<b>1152</b>	0,69	72	92	141
		885	<b>1214</b>	0,82	76	99	148
		1040	<b>1250</b>	0,98	81	106	159
		1135	<b>1336</b>	1,08	83	107	161
		1260	<b>1398</b>	1,21	85	109	165
1270	×	1395	<b>1431</b>	1,35	89	116	175
		1500	<b>1528</b>	1,46	91	120	180
		510	<b>1051</b>	0,50	67	87	131
		635	<b>1138</b>	0,62	72	92	141
		760	<b>1201</b>	0,77	76	99	148
		885	<b>1271</b>	0,91	80	104	156
		1040	<b>1302</b>	1,10	84	108	164
		1135	<b>1396</b>	1,21	85	109	165
		1260	<b>1468</b>	1,35	89	116	175
		1395	<b>1499</b>	1,51	91	120	180
		1500	<b>1608</b>	1,63	98	126	189

Door set price =

(A) Frame

+ (B) Glazing

► For additional size ranges, see next page

**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 223!)

	No.	Max. glass dimensions	Per leaf	Per m <sup>2</sup> €
<b>For interior applications</b>				<b>198</b>
<b>Standard F30 glazing</b>				
F30 glazing with transparent PVB plastic film	<b>521</b>	1400 × 3000 mm		<b>836</b>
F30 glazing with matt PVB plastic film	<b>507</b>	1400 × 3000 mm		<b>1184</b>
F30 glazing with matt PVB plastic film	<b>508</b>	1400 × 2500 mm		<b>1456</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)	<b>502</b>	1200 × 2500 mm		<b>771</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)	<b>506</b>	1200 × 2500 mm		<b>1120</b>
<b>For external applications</b>				
<b>F30 insulated glazing (as standard for external applications, U-value: 1.1)</b>	<b>408</b>	1250 × 3000 mm		<b>1309</b>
F30 insulated glazing with matt PVB plastic film	<b>662</b>	1250 × 3000 mm		<b>1965</b>

Glazings and infills

See from page 288

Horizontal rails / vertical rails

See page 305





RC 2 security equipment acc. to DIN EN 1627

See from page 294

# HL 330 N-Line and S-Line – steel fixed glazing

F30

Fire-rated glazings F30 / EI<sub>2</sub>30  
as a transom light, side element or fixed glazing

Approved as	Internal fixed glazing F30	Internal fixed glazing F30
	<b>HL 330 N-Line</b>	<b>HL 330 S-Line</b>
Depth [mm]	60	60
RAM width (max) [mm]	6000	6000
RAM height (max) [mm]	4500	4500
Optional additional functions	  <b>RC 2</b> <b>TRAV</b>	  <b>RC 2</b> <b>TRAV</b>



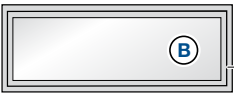
## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

HL 330 N-Line

HL 330 S-Line

See page 219

		<b>Fixed glazing HL 330</b>		Surface coating <sup>4)</sup> Surcharge		
		<b>Ordering sizes (RAM) up to width × up to height</b>	<b>Frame price  HL 330 RAL 9016</b>	<b>m<sup>2</sup> Glazing area <sup>3)</sup></b>	<b>Preferred colour</b>	<b>RAL to choose</b>
					<b>Special colour</b>	
 Transom light	A	1370 × 510	<b>1098</b>	0,52	71	139
		635	<b>1167</b>	0,68	75	146
		760	<b>1243</b>	0,83	79	153
		885	<b>1311</b>	0,99	81	159
		1040	<b>1347</b>	1,19	85	165
		1135	<b>1448</b>	1,31	87	170
		1260	<b>1516</b>	1,47	91	180
		1395	<b>1553</b>	1,64	97	187
		1500	<b>1669</b>	1,77	101	194
					101	194
 Side element	A	1500 × 510	<b>1250</b>	0,57	72	141
		635	<b>1322</b>	0,75	78	152
		760	<b>1402</b>	0,92	80	156
		885	<b>1481</b>	1,09	84	164
		1040	<b>1520</b>	1,31	87	170
		1135	<b>1527</b>	1,44	91	180
		1260	<b>1599</b>	1,62	97	187
		1395	<b>1636</b>	1,81	101	194
		1500	<b>1767</b>	1,95	103	200
					103	200
 Fixed glazing	A	1645 × 510	<b>1287</b>	0,63	76	148
		635	<b>1369</b>	0,82	79	153
		760	<b>1443</b>	1,02	84	164
		885	<b>1525</b>	1,21	86	168
		1040	<b>1566</b>	1,45	91	180
		1135	<b>1585</b>	1,59	97	187
		1260	<b>1659</b>	1,79	101	194
		1395	<b>1695</b>	2,00	104	201
		1500	<b>1831</b>	2,16	106	208
					106	208
	A	1770 × 510	<b>1326</b>	0,68	79	153
		635	<b>1409</b>	0,89	83	161
		760	<b>1492</b>	1,10	86	168
		885	<b>1575</b>	1,31	90	178
		1040	<b>1625</b>	1,56	97	187
		1135	<b>1645</b>	1,72	101	194
		1260	<b>1728</b>	1,93	103	200
		1395	<b>1763</b>	2,16	106	208
		1500	<b>1910</b>	2,33	109	213
					109	213

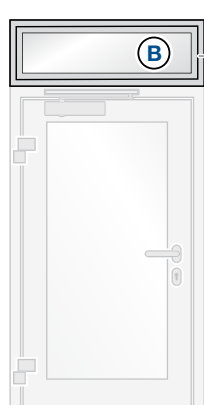
Door set price =

A Frame  
+ B Glazing

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 226

► For additional size ranges, see next page



Transom light



Side element



Fixed glazing

Door set price =

- (A) Frame  
 + (B) Glazing

**A**

### Fixed glazing HL 330

Ordering sizes (RAM) up to width × up to height			Frame price  HL 330 RAL 9016, E6/EV1	m <sup>2</sup> Glazing area <sup>3)</sup>	Surface coating <sup>4)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1895	×	510	<b>1365</b>	0,73	80	104	156
		635	<b>1449</b>	0,96	84	108	164
		760	<b>1541</b>	1,18	89	116	175
		885	<b>1632</b>	1,40	91	120	180
		1040	<b>1676</b>	1,68	99	129	193
		1135	<b>1705</b>	1,85	103	133	200
		1260	<b>1789</b>	2,08	105	135	205
		1395	<b>1832</b>	2,32	109	142	213
2020	×	1500	<b>1982</b>	2,51	112	146	219
		510	<b>1403</b>	0,78	83	107	161
		635	<b>1496</b>	1,02	86	112	168
		760	<b>1589</b>	1,26	89	116	175
		885	<b>1683</b>	1,50	97	125	187
		1040	<b>1727</b>	1,80	102	131	196
		1135	<b>1764</b>	1,98	105	135	205
		1260	<b>1858</b>	2,22	108	141	212
2145	×	1395	<b>1900</b>	2,48	115	151	226
		1500	<b>2060</b>	2,68	120	156	235
		510	<b>1441</b>	0,83	84	108	164
		635	<b>1536</b>	1,09	87	113	170
		760	<b>1638</b>	1,34	91	120	180
		885	<b>1732</b>	1,60	99	129	193
		1040	<b>1777</b>	1,92	104	134	201
		1135	<b>1824</b>	2,11	107	140	209
2270	×	1260	<b>1919</b>	2,37	110	144	217
		1395	<b>1968</b>	2,64	120	156	235
		1500	<b>2132</b>	2,86	123	158	238
		510	<b>1545</b>	0,80	86	112	168
		635	<b>1575</b>	1,16	89	116	175
		760	<b>1678</b>	1,43	97	125	187
		885	<b>1782</b>	1,70	102	131	196
		1040	<b>1837</b>	2,03	106	139	208
		1135	<b>1885</b>	2,24	109	142	213
		1260	<b>1988</b>	2,51	116	152	227
		1395	<b>2036</b>	2,80	123	158	238
		1500	<b>2211</b>	3,03	126	164	244

► For additional size ranges, see next page

**B**

### Glazing (standard delivery glass / panel separate)

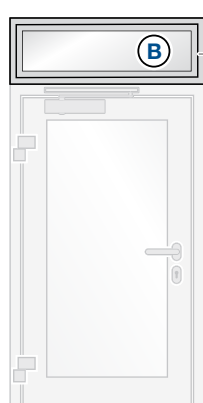
Fitting of the glass or panel at the factory (observe the order information on page 223!)

			Surcharge €
		Per leaf	<b>198</b>
<b>For interior applications</b>		<b>No.</b>	<b>Max. glass dimensions</b>
<b>Standard F30 glazing</b>			<b>Per m<sup>2</sup> €</b>
F30 glazing with transparent PVB plastic film		<b>521</b>	1400 × 3000 mm <b>836</b>
F30 glazing with matt PVB plastic film		<b>507</b>	1400 × 3000 mm <b>1184</b>
F30 glazing with matt PVB plastic film		<b>508</b>	1400 × 2500 mm <b>1456</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)		<b>502</b>	1200 × 2500 mm <b>771</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)		<b>506</b>	1200 × 2500 mm <b>1120</b>
<b>For external applications</b>		<b>No.</b>	<b>Max. glass dimensions</b>
<b>F30 insulated glazing (as standard for external applications, U-value: 1.1)</b>			<b>Per m<sup>2</sup> €</b>
F30 insulated glazing (as standard for external applications, U-value: 1.1)		<b>408</b>	1250 × 3000 mm <b>1309</b>
F30 insulated glazing with matt PVB plastic film		<b>662</b>	1250 × 3000 mm <b>1965</b>

Glazings and infills	See from page 288
Horizontal rails / vertical rails	See page 305
RC 2 security equipment acc. to DIN EN 1627	See from page 294







Transom light



Side element



Fixed glazing

Door set price =

(A) Frame

+ (B) Glazing

**A**

### Fixed glazing HL 330

Ordering sizes (RAM) up to width × up to height	Frame price  HL 330 RAL 9016	m <sup>2</sup> Glazing area <sup>3)</sup>	Surface coating <sup>4)</sup> Surcharge		
			Preferred colour	RAL to choose	Special colour
2845 × 510	1648	1,12	98	126	189
	1775	1,46	103	133	200
	1901	1,80	106	139	208
	2019	2,15	112	146	219
	2080	2,57	123	158	238
	2167	2,83	127	166	250
	2286	3,18	131	170	256
	2338	3,55	139	180	270
3000 × 510	2563	3,83	143	187	279
	1711	1,16	99	129	193
	1845	1,52	105	135	205
	1980	1,88	108	141	212
	2109	2,24	116	152	227
	2178	2,68	126	164	244
	2281	2,94	130	168	253
	2404	3,31	137	178	269
1395 × 510	2463	3,70	142	185	276
	2702	3,99	148	193	291

**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 223!)

	No.	Max. glass dimensions	Per leaf	Per m <sup>2</sup> €
<b>For interior applications</b>				<b>198</b>
<b>Standard F30 glazing</b>	<b>521</b>	1400 × 3000 mm		<b>836</b>
F30 glazing with transparent PVB plastic film	<b>507</b>	1400 × 3000 mm		<b>1184</b>
F30 glazing with matt PVB plastic film	<b>508</b>	1400 × 2500 mm		<b>1456</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)	<b>502</b>	1200 × 2500 mm		<b>771</b>
F30 fire protection panel (2 × sheet steel, interior fire-proof core)	<b>506</b>	1200 × 2500 mm		<b>1120</b>
<b>For external applications</b>				
<b>F30 insulated glazing (as standard for external applications, U-value: 1.1)</b>	<b>408</b>	1250 × 3000 mm		<b>1309</b>
F30 insulated glazing with matt PVB plastic film	<b>662</b>	1250 × 3000 mm		<b>1965</b>

Glazings and infills

See from page 288

Horizontal rails / vertical rails

See page 305

RC 2 security equipment acc. to DIN EN 1627

See from page 294

# Corner and profile frames made of steel for brickwork

T30

For T30 fire-rated doors – tubular frame  
with or without transom light, single- and double-leaf

## Material

- Sheet metal, hot galvanized
- Corner frame 2.0 mm thick for brickwork
- Profile frame 2.0 mm thick for brickwork and partition walls
- Primed based on RAL 7035 for subsequent coating on-site, optionally in RAL to choose
- Version with glazing beads on hinge side (opening inwards)

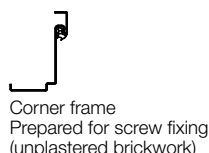
## Frame types

- 3-part separated in the mitred area, screw-on lath profiles
  - 1-part welded in the mitred area, polished
- Mortar-free fitting

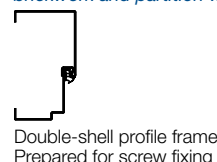
## Size range (nominal sizes)

HL 310 (W × H):	Min. 625 × 1750 mm	Max. 1232 × 2278 mm
HL 320 (W × H):	Min. 1251 × 1750 mm	Max. 2802 × 2278 mm
Doors with transom light / top part		Max. 3500 mm BR height

Corner frame for brickwork



Double-shell profile frame for brickwork and partition walls



Basic prices €								
BR height up to		2278	2500		2750		3000	
BR width up to				With transom light		With transom light	For panel	With transom light
Wall width								
1000 mm	Corner frame							
		145						
	Profile frame	205						
		270						
1250 mm	Corner frame							
		145						
	Profile frame	205						
		270						
1500 mm	Corner frame							
		145						
	Profile frame	205						
		270						
1750 mm	Corner frame							
		145						
	Profile frame	205						
		270						
2000 mm	Corner frame							
		145						
	Profile frame	205						
		270						
2250 mm	Corner frame							
		145						
	Profile frame	205						
		270						
2500 mm	Corner frame							
		145						
	Profile frame	205						
		270						
2750 mm	Corner frame							
		145						
	Profile frame	205						
		270						



Basic prices €								
BR height up to		2278	2500		2750		3000	
BR width up to	Wall width			With transom light		With transom light	For panel	With transom light
2950 mm	Corner frame	2428	2720	3977	3011	4031	3302	4055
	145	2571	2880	4105	3187	4169	3495	4197
	205	2610	2923	4169	3235	4232	3548	4237
	270	2653	2972	4222	3290	4295	3609	4280
	330	2693	3015	4285	3338	4359	3661	4319

Preparation for accessories	Surcharge €
Frame prepared for 3rd hinge	86
Prepared for KÜ 480 / each	276
Prepared for electric strike	No surcharge
Prepared for ECO dual locking	220
Prepared for single-leaf reed contact (type Link)	130
Prepared for double-leaf reed contact (type Link)	256
Prepared for single-leaf escape door opener	268
Prepared for single-leaf escape door opener in crossframe	268
Prepared for double-leaf escape door opener in crossframe	529
Prepared for alarm contact element	262
Top frame prepared for ITS 96 N20 (single-leaf)	240
Top frame prepared for ITS 96 GSR (double-leaf)	476
Prepared for Fuhr triple lock	148

► The required accessories from the "Accessories and fittings" chapter must be added to the preparation prices

#### Note on surfaces:

For doors in preferred colour, RAL to choose or special colour, 1.5 x the price for the respective surface must be charged!

#### Example:

	Preferred colour	RAL to choose	Special colour
HL 310 (1020 x 2010 mm)	146 €	189 €	284 €
HL 310 with steel frame (x 1.5)	219 €	286 €	428 €

# Good reasons to try Hörmann steel loft doors



Industrial style for living areas and workspaces

**Large glazings with  
high-quality steel profiles**

**HÖRMANN**

Good reasons to try Hörmann  
steel and aluminium tubular frame  
construction project doors



Maximum clear passage width

**Steel profile frame**



\* compared to door version with fascia frame

**HÖRMANN**

# HL 910 F – steel

## T90 fire-rated doors, single-leaf

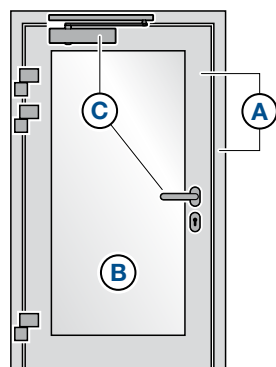
T90

Approved as	<b>T90 internal door</b>
	<b>HL 910 F</b>
Depth [mm]	70
RAM width (min – max) [mm]	700 – 1590
RAM height (min – max) [mm]	1725 – 2960
Optional additional functions	 

### Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

See page 220



#### Door set price =

- A** Frame / leaf
- + **B** Glazings
- + **C** Door fitting / additional function

#### Already included in the price:

- 1 x mortice lock
- 3 x 3-way steel weld-on hinge, 17 mm pivot point, three-part

#### ► State opening sense on order!

- \* Fittings for RAL colours in aluminium natural finish as standard. For an overview of available surface finishes, see page 226



### Frame / leaf

Ordering sizes (RAM) up to width x up to height			Frame / leaf  HL 910 F RAL 9016	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1020	x	2010	<b>6853</b>	1,41	146	189	284
		2145	<b>7084</b>	1,52	150	194	292
		2280	<b>7315</b>	1,63	153	199	298
		2415	<b>7546</b>	1,73	157	205	306
		2570	<b>7811</b>	1,85	161	209	314
		2730	<b>8085</b>	1,98	165	214	321
		2890	<b>8358</b>	2,10	168	219	328
1145	x	2010	<b>7100</b>	1,64	152	198	297
		2145	<b>7336</b>	1,64	156	203	305
		2280	<b>7572</b>	1,75	158	206	308
		2415	<b>7807</b>	1,87	162	211	316
		2570	<b>8077</b>	2,01	165	215	322
		2730	<b>8356</b>	2,29	168	219	328
		2890	<b>8635</b>	2,44	171	223	334
1270	x	2010	<b>7347</b>	1,87	157	205	306
		2145	<b>7587</b>	2,00	161	209	314
		2280	<b>7828</b>	2,14	165	215	322
		2415	<b>8068</b>	2,28	167	217	325
		2570	<b>8343</b>	2,44	169	220	330
		2730	<b>8627</b>	2,61	172	226	338
		2890	<b>8914</b>	2,78	175	229	343
1395	x	2010	<b>7595</b>	2,09	162	211	316
		2145	<b>7839</b>	2,25	165	215	322
		2280	<b>8084</b>	2,40	169	220	330
		2415	<b>8328</b>	2,56	171	222	334
		2570	<b>8609</b>	2,74	174	226	341
		2730	<b>8899</b>	2,93	177	230	347
		2890	<b>9188</b>	3,11	180	234	354
1540	x	2010	<b>7882</b>	2,35	167	217	325
		2145	<b>8132</b>	2,53	173	225	334
		2280	<b>8382</b>	2,70	179	230	343
		2415	<b>8631</b>	2,88	185	236	353
		2570	<b>8918</b>	3,08	190	243	362
		2730	<b>9213</b>	3,29	196	250	371
		2890	<b>9509</b>	3,50	201	256	380

# Glazings, door fittings, additional functions

## HL 910 F – steel hollow profiled section door



B

Glazing (standard delivery glass / panel separate)

Fitting of the glass or panel at the factory (observe the order information on page 223!)

Per leaf

198

For interior applications

No.

Max. glass dimensions

Per m² €

Standard F90 glazing (UV protection on both sides)

576

1400 × 2820 mm

1944

F90 glazing with matt PVB plastic film

563

1400 × 2900 mm

2939

F90 fire protection panel (2 × steel panels, interior fire-proof core)

540

1200 × 2500 mm

859

F90 glass panel

516


1400 × 2820 mm

2436

C

Door fitting / additional function

Surcharge €



Lever handle set D116, oval rose escutcheon PC


Standard

Aluminium

98

Stainless steel

137



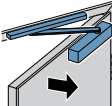
Lever / knob handle set D116 with knob K116, oval rose escutcheon PC

Aluminium

147

Stainless steel

216



TS 5000 EN 2-6 with slide rail

Standard

Silver-coloured


308

Fitting on opening side (hinge side)

RAM width min. 605 mm, max. 1500 mm


RAL stainless steel design

328



Mortice lock

Standard



Mortice lock for change-over function B

Anti-panic function, single-leaf / half anti-panic, double-leaf

298

Mortice lock for passage function D


Anti-panic function, single-leaf / half anti-panic, double-leaf

227

Mortice lock for lever / knob function E

Anti-panic function, single-leaf / half anti-panic, double-leaf

144




Steel weld-on hinge, 17 mm pivot point, three-part, 3-way adjustable

In door colour

Standard

Please take into consideration 3 hinges for the leaf!

Smoke-tight acc. to DIN 18095 / DIN EN 1634-3




Retractable bottom seal

Single-leaf

175

For fitting on a smooth, level floor



Floor covering transition profile

Single-leaf

36

Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor



Optional extras

See from page 308

# HL 920 F – steel

## T90 fire-rated doors, double-leaf

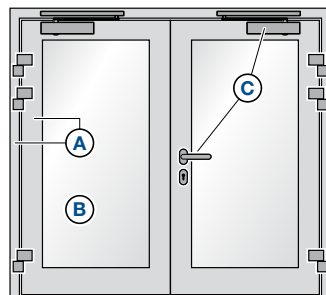
T90

Approved as	<b>T90 internal door</b>
	<b>HL 920 F</b>
Depth [mm]	70
RAM width (min – max) [mm]	1400 × 2490
RAM height (min – max) [mm]	1725 × 2570
Optional additional functions	 

### Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

See page 220



#### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

#### Already included in the price:

- 1 × mortice lock incl. rebate espagnolette lock (fixed leaf)
- 6 × 3-way steel weld-on hinge, 17 mm pivot point, three-part

► State opening sense on order!

\* For an overview of available surface finishes, see page 226

**A**

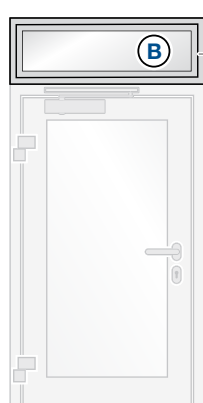
#### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price		m² Glazing area	Surface coating * Surcharge		
			HL 920 F RAL 9016			Preferred colour	RAL to choose	Special colour
1410	×	2010	10433	1,89	242	316	475	
		2145	10734	2,03	247	321	480	
		2280	11036	2,17	253	328	493	
		2415	11337	2,32	255	332	498	
		2570	11682	2,48	260	340	509	
1545	×	2010	10764	2,13	248	323	485	
		2145	11070	2,29	253	328	493	
		2280	11376	2,45	260	340	509	
		2415	11682	2,61	262	342	512	
		2570	12033	2,80	269	348	522	
1680	×	2010	11094	2,38	254	329	495	
		2145	11406	2,56	258	334	504	
		2280	11716	2,73	268	346	518	
		2415	12028	2,91	270	349	526	
		2570	12386	3,12	273	355	533	
1815	×	2010	11425	2,62	260	340	509	
		2145	11740	2,82	268	346	518	
		2280	12057	3,01	272	353	530	
		2415	12374	3,21	273	355	533	
		2570	12737	3,43	277	361	542	
1950	×	2010	11754	2,86	268	346	518	
		2145	12076	3,08	271	350	527	
		2280	12398	3,29	275	358	536	
		2415	12720	3,51	277	361	542	
		2570	13089	3,75	284	369	552	
2085	×	2010	12085	3,11	271	350	527	
		2145	12412	3,34	275	358	536	
		2280	12739	3,57	280	366	549	
		2415	13065	3,81	286	371	556	
		2570	13441	4,07	291	378	567	
2220	×	2010	12415	3,35	274	356	534	
		2145	12747	3,60	279	364	548	
		2280	13079	3,85	287	372	560	
		2415	13412	4,10	291	378	567	
		2570	13793	4,39	296	384	578	
2335	×	2010	12696	3,56	279	364	548	
		2145	13033	3,83	286	371	556	
		2280	13370	4,09	292	379	568	
		2415	13706	4,36	296	384	578	
		2570	14043	4,66	304	396	593	
2490	×	2010	13075	3,84	284	369	552	
		2145	13418	4,13	290	377	564	
		2280	13761	4,41	296	384	578	
		2415	14104	4,70	303	394	590	
		2570	14497	5,03	307	400	600	









Transom light



Side element



Fixed glazing

Door set price =

- (A) Frame  
+ (B) Glazing

**A**

## Fixed glazing HL 930 F

Ordering sizes (RAM) up to width × up to height			Frame price <b>HL 930 F</b> RAL 9016	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1020	×	510	<b>1784</b>	0,50	59	78	115
		635	<b>1889</b>	0,50	66	86	130
		760	<b>2011</b>	0,60	71	91	139
		885	<b>2130</b>	0,72	75	98	146
		1010	<b>2248</b>	0,86	79	103	153
		1135	<b>2367</b>	0,95	80	104	156
		1260	<b>2480</b>	1,06	81	106	159
		1310	<b>2532</b>	1,19	85	109	165
1145	×	1510	<b>2716</b>	1,28	86	112	168
		510	<b>1886</b>	0,50	63	83	124
		635	<b>1995</b>	0,56	71	91	139
		760	<b>2121</b>	0,69	72	92	141
		885	<b>2244</b>	0,82	76	99	148
		1010	<b>2366</b>	0,98	81	106	159
		1135	<b>2488</b>	1,08	83	107	161
		1260	<b>2606</b>	1,21	85	109	165
1270	×	1310	<b>2659</b>	1,35	89	116	175
		1510	<b>2850</b>	1,46	91	120	180
		510	<b>1989</b>	0,50	67	87	131
		635	<b>2102</b>	0,62	72	92	141
		760	<b>2231</b>	0,77	76	99	148
		885	<b>2358</b>	0,91	80	104	156
		1010	<b>2484</b>	1,10	84	108	164
		1135	<b>2610</b>	1,21	85	109	165
		1260	<b>2732</b>	1,35	89	116	175
		1310	<b>2787</b>	1,51	91	120	180
		1510	<b>2983</b>	1,63	98	126	189

Larger RAM in width and height on request.

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 226

► For additional size ranges, see next page

**B**

## Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 223!)

For interior applications	No.	Max. glass dimensions	Per leaf	Per m <sup>2</sup> €
<b>Standard F90 glazing</b> (UV protection on both sides)	<b>576</b>	1400 × 2820 mm	<b>198</b>	<b>1944</b>
F90 glazing with matt PVB plastic film	<b>563</b>	1400 × 2900 mm		<b>2939</b>
F90 fire protection panel (2 × steel panels, interior fire-proof core)	<b>540</b>	1200 × 2500 mm		<b>859</b>
F90 glass panel	<b>516</b>	1400 × 2820 mm		<b>2436</b>


Optional extras

See from page 308

# HL 930 F – steel fixed glazing

F90

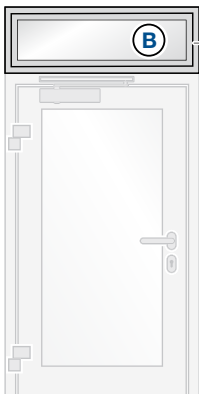


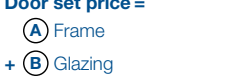
Fire-rated glazings F90 – for doors and walls  
as a transom light, side element or fixed glazing

Approved as	Internal fixed glazing F90
	<b>HL 930 F</b>
Depth [mm]	70
RAM width (max) [mm]	Unlimited
RAM height (max) [mm]	4000 mm
Optional additional functions	

## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

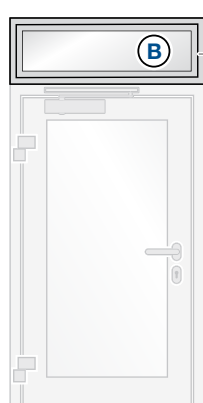
See page 221

		Fixed glazing HL 930 F		Surface coating <sup>2)</sup> Surcharge		
Ordering sizes (RAM) up to width × up to height		Frame price  HL 930 F RAL 9016	m <sup>2</sup> Glazing area <sup>1)</sup>	Preferred colour	RAL to choose	Special colour
 Transom light	1370 × 510	2072	0,52	71	91	139
	635	2186	0,68	75	98	146
	760	2320	0,83	79	103	153
	885	2449	0,99	81	106	159
	1010	2578	1,19	85	109	165
	1135	2708	1,31	87	113	170
	1260	2831	1,47	91	120	180
	1310	2889	1,64	97	125	187
 Side element	1510 × 510	3089	1,77	101	130	194
	635	2257	0,57	72	92	141
	760	2376	0,75	78	102	152
	885	2513	0,92	80	104	156
	1010	2648	1,09	84	108	164
	1135	2781	1,31	87	113	170
	1260	2845	1,44	91	120	180
	1310	2973	1,62	97	125	187
 Fixed glazing	1510 × 510	3032	1,81	101	130	194
	635	3239	1,95	103	133	200
	760	3269	0,63	76	99	148
	885	2490	0,82	79	103	153
	1010	2633	1,02	84	108	164
	1135	2770	1,21	86	112	168
	1260	2909	1,45	91	120	180
	1310	2976	1,59	97	125	187
 Door set price = A Frame + B Glazing	1260 × 510	3108	1,79	101	130	194
	635	3169	2,00	104	134	201
	760	3383	2,16	106	139	208
	885	2471	0,68	79	103	153
	1010	2596	0,89	83	107	161
	1135	2743	1,10	86	112	168
	1260	2885	1,31	90	118	178
	1310	3026	1,56	97	125	187
	1370 × 510	3098	1,72	101	130	194
	635	3234	1,93	103	133	200
	760	3297	2,16	106	139	208
	885	3516	2,33	109	142	213
	1010					
	1135					
	1260					
	1310					

Larger RAM in width and height on request.

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 226



Transom light



Side element



Fixed glazing

Door set price =

- (A) Frame  
+ (B) Glazing

**A**

## Fixed glazing HL 930 F

Ordering sizes (RAM) up to width × up to height			Frame price  HL 930 F RAL 9016	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1895	×	510	<b>2574</b>	0,73	80	104	156
		635	<b>2702</b>	0,96	84	108	164
		760	<b>2853</b>	1,18	89	116	175
		885	<b>2999</b>	1,40	91	120	180
		1010	<b>3145</b>	1,68	99	129	193
		1135	<b>3220</b>	1,85	103	133	200
		1260	<b>3359</b>	2,08	105	135	205
		1310	<b>3424</b>	2,32	109	142	213
2020	×	1510	<b>3651</b>	2,51	112	146	219
		510	<b>2676</b>	0,78	83	107	161
		635	<b>2808</b>	1,02	86	112	168
		760	<b>2963</b>	1,26	89	116	175
		885	<b>3113</b>	1,50	97	125	187
		1010	<b>3263</b>	1,80	102	131	196
		1135	<b>3342</b>	1,98	105	135	205
		1260	<b>3485</b>	2,22	108	141	212
2145	×	1310	<b>3552</b>	2,48	115	151	226
		1510	<b>3784</b>	2,68	120	156	235
		510	<b>2779</b>	0,83	84	108	164
		635	<b>2915</b>	1,09	87	113	170
		760	<b>3074</b>	1,34	91	120	180
		885	<b>3228</b>	1,60	99	129	193
		1010	<b>3381</b>	1,92	104	134	201
		1135	<b>3464</b>	2,11	107	140	209
		1260	<b>3611</b>	2,37	110	144	217
		1310	<b>3679</b>	2,64	120	156	235
		1510	<b>3917</b>	2,86	123	158	238

Larger RAM in width and height on request.

- 1) Minimum calculation surface 0.5 m<sup>2</sup>  
2) For an overview of available surface finishes, see page 226  
► For additional size ranges, see next page

**B**

## Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 223!)

For interior applications	No.	Max. glass dimensions	Per leaf	Per m <sup>2</sup> €
Standard F90 glazing (UV protection on both sides)	576	1400 × 2820 mm	198	1944
F90 glazing with matt PVB plastic film	563	1400 × 2900 mm		2939
F90 fire protection panel (2 × steel panels, interior fire-proof core)	541	1200 × 2500 mm		859
F90 glass panel	516	1400 × 2820 mm		2436


Optional extras

See from page 308

# HL 930 F – steel fixed glazing

F90

Fire-rated glazings F90 – for doors and walls  
as a transom light, side element or fixed glazing

Approved as	Internal fixed glazing F90
	<b>HL 930 F</b>
Depth [mm]	70
RAM width (max) [mm]	Unlimited
RAM height (max) [mm]	4000 mm
Optional additional functions	

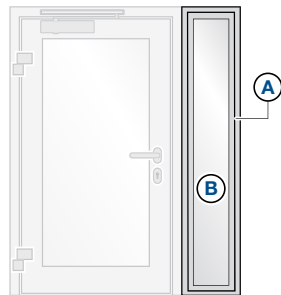
## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

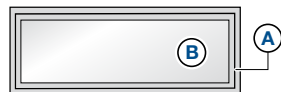
See page 221

		Fixed glazing HL 930 F		Surface coating <sup>2)</sup> Surcharge		
Ordering sizes (RAM) up to width × up to height		Frame price  HL 930 F RAL 9016	m <sup>2</sup> Glazing area <sup>1)</sup>	Preferred colour	RAL to choose	Special colour
2255	× 510	2870	0,88	86	112	168
	635	3009	1,16	89	116	175
	760	3171	1,43	97	125	187
	885	3329	1,70	102	131	196
	1010	3485	2,03	106	139	208
	1135	3572	2,24	109	142	213
	1260	3721	2,51	116	152	227
	1310	3791	2,80	123	158	238
2375	× 510	2969	0,91	87	113	170
	635	3110	1,19	94	124	186
	760	3277	1,47	99	129	193
	885	3438	1,76	104	134	201
	1010	3598	2,04	108	141	212
	1135	3688	2,32	112	146	219
	1260	3841	2,60	121	157	236
	1310	3914	2,72	126	164	244
2460	× 510	4162	3,17	130	168	253
	635	3038	0,94	89	116	175
	760	3182	1,23	97	125	187
	885	3352	1,53	102	131	196
	1010	3515	1,82	106	139	208
	1135	3679	2,12	110	144	217
	1260	3771	2,41	116	152	227
	1310	3928	2,70	124	161	241
	1510	4000	2,82	129	167	251
	1510	4253	3,18	132	171	258

Transom light



Side element



Fixed glazing

## Door set price =

- (A) Frame  
+ (B) Glazing

## Larger RAM in width and height on request.

- 1) Minimum calculation surface 0.5 m<sup>2</sup>  
2) For an overview of available surface finishes, see page 226

Glazing (standard delivery glass / panel separate)		Surcharge €	
Fitting of the glass or panel at the factory (observe the order information on page 223!)		Per leaf	198
For interior applications	No.	Max. glass dimensions	Per m <sup>2</sup> €
Standard F90 glazing (UV protection on both sides)	576	1400 × 2820 mm	1944
F90 glazing with matt PVB plastic film	563	1400 × 2900 mm	2939
F90 fire protection panel (2 × steel panels, interior fire-proof core)	541	1200 × 2500 mm	859
F90 glass panel	516	1400 × 2820 mm	2436

## Optional extras

See from page 308

# Good reasons to try Hörmann steel tubular frame construction project doors



Particularly narrow door view

## **S-Line system**

**HÖRMANN**

# Good reasons to try Hörmann aluminium tubular frame construction project doors



Up to  
**55 mm**  
wider clear  
passage width

Elegant door view without visible frame face

## Frame without face

\* compared to door version with fascia frame

# HÖRMANN



# Steel smoke-tight door assemblies

Steel tubular frame parts

## Contents



<b>Steel smoke-tight door assemblies</b>		
<b>Smoke-tight door assemblies</b>		
S / RS 100 door N- and S-Line	Single-leaf	272
S / RS 200 door N- and S-Line	Double-leaf	274
S / RS 300 glazing		280
<b>Frames for smoke-tight door assemblies</b>		
Corner and profile frames for brickwork		256


<b>Overhead door closers</b>	<b>From page 310</b>
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<b>Fittings and optional extras</b>	<b>From page 288</b>
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<b>Operators</b>	<b>From page 316</b>
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# S / RS 100 N-Line and S-Line – steel hollow profiled section door

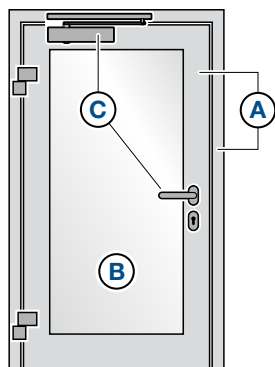
## Smoke-tight door assemblies, single-leaf

Approved as	Smoke-tight internal door			
	S/RS 100 N-Line		S/RS 100 S-Line	
	With fascia frame	With steel frame	With fascia frame	With steel frame
Depth [mm]	60 mm			
RAM width (min – max) [mm]	643 – 1538	539 – 1434	605 – 1500	539 – 1434
RAM height (min – max) [mm]	1759 – 3020	1707 – 2968	1740 – 3001	1707 – 2968
Optional additional functions				

### Detailed product description

S/RS 100

See page 232



#### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

#### Already included in the price:

- 1 × retractable bottom seal
- 1 × mortice lock BKS 1828
- 2 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

#### Larger RAM in width and height on request.

► State opening sense on order!

\* For an overview of available surface finishes, see page 226

A

Frame / leaf

Ordering sizes (RAM) up to width x up to height			Frame / door leaf price		m <sup>2</sup> Glazing area	Surface coating * Surcharge		
			S/RS 100 N-Line and S-Line RAL 9016			Preferred colour	RAL to choose	Special colour
1020	x	2010	2097	1,41	146	189	284	
		2135	2139	1,50	150	194	292	
		2290	2191	1,62	153	199	298	
		2385	2224	1,69	157	205	306	
		2510	2340	1,78	161	209	314	
		2600	2381	1,89	164	212	318	
		2710	2425	1,95	165	215	322	
		2885	2470	2,08	168	219	328	
		3000	2511	2,17	170	221	332	
1145	x	2010	2157	1,63	152	198	297	
		2135	2201	1,74	156	203	305	
		2290	2256	1,88	158	206	308	
		2385	2290	1,97	162	211	316	
		2510	2408	2,07	165	215	322	
		2600	2458	2,19	167	217	325	
		2710	2505	2,26	169	220	330	
		2885	2552	2,42	174	226	341	
		3000	2595	2,52	180	234	349	
1270	x	2010	2217	1,86	157	205	306	
		2135	2263	1,99	161	209	314	
		2290	2320	2,15	165	215	322	
		2385	2356	2,24	167	217	325	
		2510	2482	2,36	169	220	330	
		2600	2535	2,50	171	222	334	
		2710	2585	2,58	174	226	341	
		2885	2634	2,75	182	236	354	
		3000	2679	2,87	184	238	358	
1370	x	2010	2264	2,04	162	211	316	
		2135	2312	2,18	165	215	322	
		2290	2372	2,36	169	220	330	
		2385	2409	2,46	171	222	334	
		2510	2542	2,59	174	226	341	
		2600	2596	2,74	180	234	349	
		2710	2648	2,83	183	237	355	
		2885	2699	3,02	187	242	364	
		3000	2746	3,15	189	247	370	
1500	x	2010	2327	2,28	167	217	325	
		2135	2377	2,44	173	225	334	
		2290	2439	2,63	179	230	343	
		2385	2478	2,75	185	236	353	
		2510	2618	2,89	190	243	362	
		2600	2677	3,06	196	249	373	
		2710	2731	3,16	204	255	383	
		2885	2784	3,37	210	261	389	
		3000	2833	3,52	215	269	402	

# Glazings, door fittings, additional functions

S / RS 100 N-Line and S-Line – steel hollow profiled section door



B	Glazing (standard delivery glass / panel separate)		Surcharge €	
	Fitting of the glass or panel at the factory (observe the order information on page 223!)		Per leaf	198
For interior applications		No.	Max. glass dimensions	Per m² €
Standard glazing, laminated safety glass 8 mm		525	2600 × 4500 mm	115
Glazing laminated safety glass 10 mm		527	2600 × 4500 mm	158
Glazing laminated safety glass 6 mm with matt plastic film		528	2250 × 2333 mm	155
Glazing single-pane safety glass 8 mm		524	2400 × 4500 mm	178
Glazing single-pane safety glass 10 mm		526	2400 × 4500 mm	239
Steel panel			1250 × 2500 mm	467
Steel glass panel (2 × steel sheet, acoustic insulation glass on the inside)			1250 × 2500 mm	790




Door fitting / additional function		Surcharge €	
	• <b>Lever handle set D116</b> , oval rose escutcheon PC	Standard	Aluminium 98
			Stainless steel 137
	• <b>Lever / knob handle set D116 with knob K160</b> , oval rose escutcheon PC		Aluminium 147
			Stainless steel 216
	• <b>TS 5000</b> EN 2 – 6 with slide rail • Fitting on opening side (hinge side) • RAM width min. 605 mm, max. 1500 mm		Silver-coloured 308
			RAL to choose 360
	• Mortice lock BKS 1828		Standard
	• Mortice lock BKS 1820 for change-over function B	Anti-panic function, single-leaf / half anti-panic, double-leaf	298
	• Mortice lock BKS 1824 for passage function D	Anti-panic function, single-leaf / half anti-panic, double-leaf	227
	• Mortice lock BKS 1826 for lever / knob function E	Anti-panic function, single-leaf / half anti-panic, double-leaf	144
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator	EV1	Standard
		RAL to choose	62
		Stainless steel look	86
	• Steel screw-on guide roller, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator	RAL to choose	86
		Stainless steel	123
		Smoke-tight acc. to DIN 18095 / DIN EN 1634-3	
	<b>Retractable bottom seal</b>	Single-leaf	175
	• For fitting on a smooth, level floor		
	<b>Delayed retractable bottom seal</b>	Single-leaf	325
	• Suitable with different pressure ratios (loading houses)		
	• For fitting on a smooth, level floor		
	<b>Floor covering transition profile</b>	Single-leaf	36
	Stainless steel flat material 38 x 1.2 mm, optional e.g. for tiles or carpeted floor		

## Accessories

Glazings and infills	See from page 290
Horizontal rails / vertical rails	See page 305
Fittings	See from page 296
Lever handle sets, profile cylinders, locks and electric extras	See from page 296
Door closers, hold-open devices and operators	See from page 310
RC 2 security equipment acc. to DIN EN 1627	See page 294

# S / RS 200 N-Line and S-Line – steel hollow profiled section door

Smoke-tight door assemblies, double-leaf

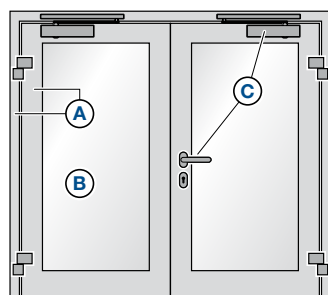
	S/RS 200 N-Line		S/RS 200 S-Line	
	With fascia frame	With steel frame	With fascia frame	With steel frame
Depth [mm]	60 mm			
RAM width (min – max) [mm]	1355 – 2890	1251 – 2786	1317 – 2850	1251 – 2786
RAM height (min – max) [mm]	1759 – 3020	1707 – 2968	1740 – 3001	1707 – 2968
Approved as	Smoke-tight internal door			
Optional additional functions	  			

## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

S/RS 200 N-Line and S-Line

See page 232



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

### Larger RAM on request

► State opening sense on order!

\* For an overview of available surface finishes, see page 226



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  S/RS 200 N-Line and S-Line RAL 9016	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
1520	×	2010	<b>3621</b>	2,03	242	316	475
		2135	<b>3671</b>	2,16	247	321	480
		2290	<b>3732</b>	2,34	253	328	493
		2385	<b>3769</b>	2,44	255	332	498
		2510	<b>3924</b>	2,58	260	340	509
		2600	<b>3973</b>	2,68	262	342	512
		2710	<b>4025</b>	2,80	269	348	522
		2885	<b>4078</b>	3,00	273	355	533
1645	×	3000	<b>4126</b>	3,13	275	358	536
		2010	<b>3682</b>	2,29	248	323	485
		2135	<b>3733</b>	2,45	253	328	493
		2290	<b>3797</b>	2,64	260	340	509
		2385	<b>3836</b>	2,76	262	342	512
		2510	<b>3991</b>	2,92	269	348	522
		2600	<b>4050</b>	3,03	271	350	527
		2710	<b>4106</b>	3,17	274	356	534
1770	×	2885	<b>4160</b>	3,39	279	364	548
		3000	<b>4211</b>	3,53	284	369	552
		2010	<b>3743</b>	2,52	254	329	495
		2135	<b>3796</b>	2,69	258	334	504
		2290	<b>3864</b>	2,90	268	346	518
		2385	<b>3903</b>	3,04	270	349	526
		2510	<b>4066</b>	3,21	273	355	533
		2600	<b>4128</b>	3,33	276	360	541
1895	×	2710	<b>4186</b>	3,49	279	364	548
		2885	<b>4243</b>	3,73	287	372	560
		3000	<b>4296</b>	3,89	291	378	567
		2010	<b>3804</b>	2,74	260	340	509
		2135	<b>3859</b>	2,93	268	346	518
		2290	<b>3929</b>	3,17	272	353	530
		2385	<b>3971</b>	3,31	273	355	533
		2510	<b>4142</b>	3,50	277	361	542
		2600	<b>4207</b>	3,63	281	367	551
		2710	<b>4266</b>	3,80	287	372	560
		2885	<b>4326</b>	4,06	292	379	568
		3000	<b>4381</b>	4,24	296	384	578

► For additional size ranges, see next page

# Glazings, door fittings, additional functions

## S / RS 200 – steel hollow profiled section door



B

Glazing (standard delivery glass / panel separate)			Surcharge €	
Fitting of the glass or panel at the factory (observe the order information on page 223!)			Per leaf	198
For interior applications		No.	Max. glass dimensions	Per m² €
Standard glazing, laminated safety glass 8 mm		525	2600 × 4500 mm	115
Glazing laminated safety glass 10 mm		527	2600 × 4500 mm	158
Glazing laminated safety glass 6 mm with matt plastic film		528	2250 × 2333 mm	155
Glazing single-pane safety glass 8 mm		524	2400 × 4500 mm	178
Glazing single-pane safety glass 10 mm		526	2400 × 4500 mm	239
Steel panel			1250 × 2500 mm	467
Steel glass panel (2 × steel sheet, acoustic insulation glass on the inside)			1250 × 2500 mm	790

C




Door fitting / additional function			Surcharge €	
	• Lever handle set D116, oval rose escutcheon PC	Standard	Aluminium	98
			Stainless steel	137
	• Lever / knob handle set D116 with knob K160, oval rose escutcheon PC		Aluminium	147
			Stainless steel	216
	• TS 5000 ISM with slide rail • Fitting on opening side (hinge side) • Opening angle 173°	Standard	Silver-coloured	646
			RAL to choose	797
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)			Standard
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock		Anti-panic function double-leaf	729
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock		Anti-panic function double-leaf	560
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock		Anti-panic function double-leaf	565
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator	EV1		Standard
		RAL to choose		62
		Stainless steel look		86
	• Steel screw-on guide roller, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator	RAL to choose		86
		Stainless steel		123
Smoke-tight acc. to DIN 18095 / DIN EN 1634-3				
	<b>Retractable bottom seal</b> • For fitting on a smooth, level floor		Double-leaf	350
	<b>Delayed retractable bottom seal</b> • Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor		Double-leaf	650
	<b>Floor covering transition profile</b> Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor		Double-leaf	72
Accessories				
Glazings and infills			See from page 290	
Horizontal rails / vertical rails			See page 305	
Fittings Lever handle sets, profile cylinders, locks and electric extras			See from page 296	
Door closers, hold-open devices and operators			See from page 312	

Smoke protection

Tubular frame parts  
Steel

# S / RS 200 N-Line and S-Line – steel hollow profiled section door

Smoke-tight door assemblies, double-leaf

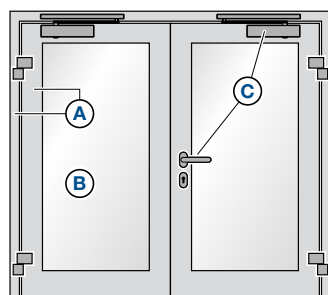
	S/RS 200 N-Line		S/RS 200 S-Line	
	With fascia frame	With steel frame	With fascia frame	With steel frame
Depth [mm]	60 mm			
RAM width (min–max) [mm]	1355–2890	1251–2786	1317–2850	1251–2786
RAM height (min–max) [mm]	1759–3020	1707–2968	1740–3001	1707–2968
Approved as	Smoke-tight internal door			
Optional additional functions	  			

## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

S/RS 200 N-Line and S-Line

See page 232



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

### Larger RAM on request

► State opening sense on order!

\* For an overview of available surface finishes, see page 226



## Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  S/RS 200 N-Line and S-Line RAL 9016	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2020	×	2010	3865	2,97	268	346	518
		2135	3922	3,18	271	350	527
		2290	3995	3,43	275	358	536
		2385	4038	3,58	277	361	542
		2510	4217	3,79	284	369	552
		2600	4284	3,94	287	372	560
		2710	4346	4,12	292	379	568
		2885	4409	4,40	298	388	583
		3000	4466	4,59	305	398	597
2145	×	2010	3925	3,20	271	350	527
		2135	3985	3,42	275	358	536
		2290	4060	3,69	280	366	549
		2385	4105	3,86	286	371	556
		2510	4293	4,08	291	378	567
		2600	4362	4,24	294	382	573
		2710	4427	4,43	298	388	583
		2885	4492	4,74	306	399	598
		3000	4551	4,94	312	405	606
2270	×	2010	3986	3,43	274	356	534
		2135	4048	3,66	279	364	548
		2290	4126	3,95	287	372	560
		2385	4172	4,13	291	378	567
		2510	4368	4,37	296	384	578
		2600	4440	4,54	299	389	585
		2710	4508	4,75	306	399	598
		2885	4574	5,07	312	405	606
		3000	4636	5,29	316	410	617
2395	×	2010	4047	3,65	279	364	548
		2135	4111	3,91	286	371	556
		2290	4191	4,22	292	379	568
		2385	4239	4,41	296	384	578
		2510	4443	4,66	304	396	593
		2600	4518	4,84	306	399	598
		2710	4587	5,06	312	405	606
		2885	4657	5,41	318	413	620
		3000	4721	5,64	324	422	632

► For additional size ranges, see next page

# Glazings, door fittings, additional functions

## S / RS 200 – steel hollow profiled section door



B




Glazing (standard delivery glass / panel separate)			Surcharge €	
Fitting of the glass or panel at the factory (observe the order information on page 223!)			Per leaf	198
For interior applications		No.	Max. glass dimensions	Per m² €
Standard glazing, laminated safety glass 8 mm		525	2600 × 4500 mm	115
Glazing laminated safety glass 10 mm		527	2600 × 4500 mm	158
Glazing laminated safety glass 6 mm with matt plastic film		528	2250 × 2333 mm	155
Glazing single-pane safety glass 8 mm		524	2400 × 4500 mm	178
Glazing single-pane safety glass 10 mm		526	2400 × 4500 mm	239
Steel panel			1250 × 2500 mm	467
Steel glass panel (2 × steel sheet, acoustic insulation glass on the inside)			1250 × 2500 mm	790

C

Door fitting / additional function		Surcharge €	
	• Lever handle set D116, oval rose escutcheon PC	Standard	Aluminium 98
			Stainless steel 137
	• Lever / knob handle set D116 with knob K160, oval rose escutcheon PC		Aluminium 147
			Stainless steel 216
	• TS 5000 ISM with slide rail • Fitting on opening side (hinge side) • Opening angle 173°	Standard	Silver-coloured 646
			RAL to choose 797
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)	Standard	
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock • Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock • Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf	729
		Anti-panic function double-leaf	560
		Anti-panic function double-leaf	565
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator	EV1	Standard
		RAL to choose	62
		Stainless steel look	86
	• Steel screw-on guide roller, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator	RAL to choose	86
		Stainless steel	123
Smoke-tight acc. to DIN 18095 / DIN EN 1634-3			
	Retractable bottom seal • For fitting on a smooth, level floor Delayed retractable bottom seal • Suitable with different pressure ratios (loading houses) • For fitting on a smooth, level floor	Double-leaf	350
		Double-leaf	650
	Floor covering transition profile Stainless steel flat material 38 × 1.2 mm, optional e.g. for tiles or carpeted floor	Double-leaf	72
Accessories			
Glazings and infills			See from page 290
Horizontal rails / vertical rails			See page 305
Fittings			See from page 296
Lever handle sets, profile cylinders, locks and electric extras			
Door closers, hold-open devices and operators			See from page 312

# S / RS 200 N-Line and S-Line – steel hollow profiled section door

Smoke-tight door assemblies, double-leaf

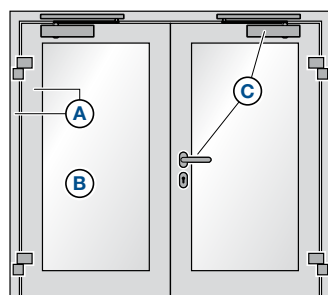
	S/RS 200 N-Line		S/RS 200 S-Line	
	With fascia frame	With steel frame	With fascia frame	With steel frame
Depth [mm]	60 mm			
RAM width (min – max) [mm]	1355 – 2890	1251 – 2786	1317 – 2850	1251 – 2786
RAM height (min – max) [mm]	1759 – 3020	1707 – 2968	1740 – 3001	1707 – 2968
Approved as	Smoke-tight internal door			
Optional additional functions	  			

## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

S/RS 200 N-Line and S-Line

See page 232



### Door set price =

- Ⓐ Frame / leaf
- + Ⓑ Glazings
- + Ⓒ Door fitting / additional function

### Already included in the price:

- 2 × retractable bottom seal
- 1 × mortice lock BKS 1828, incl. espagnolette lock (fixed leaf)
- 4 × 3-way adjustable door hinge Dr. Hahn 4, EV 1, 20 mm pivot point, two-part

### Larger RAM on request

► State opening sense on order!

\* For an overview of available surface finishes, see page 226



### Frame / leaf

Ordering sizes (RAM) up to width × up to height			Frame / door leaf price  S/RS 200 N-Line and S-Line RAL 9016	m <sup>2</sup> Glazing area	Surface coating * Surcharge		
					Preferred colour	RAL to choose	Special colour
2520	×	2010	<b>4108</b>	3,88	284	369	552
		2135	<b>4174</b>	4,15	290	377	564
		2290	<b>4257</b>	4,48	296	384	578
		2385	<b>4306</b>	4,68	303	394	590
		2510	<b>4518</b>	4,95	307	400	600
		2600	<b>4596</b>	5,14	312	405	606
		2710	<b>4668</b>	5,38	316	410	617
		2885	<b>4739</b>	5,75	325	423	634
		3000	<b>4806</b>	5,99	328	427	641
2645	×	2010	<b>4169</b>	4,11	290	377	564
		2135	<b>4237</b>	4,39	295	383	574
		2290	<b>4322</b>	4,74	304	396	593
		2385	<b>4373</b>	4,96	306	399	598
		2510	<b>4594</b>	5,24	313	406	607
		2600	<b>4674</b>	5,44	316	410	617
		2710	<b>4748</b>	5,69	324	422	632
		2885	<b>4822</b>	6,09	329	430	645
		3000	<b>4890</b>	6,34	334	435	654
2770	×	2010	<b>4230</b>	4,34	292	379	568
		2135	<b>4300</b>	4,63	299	389	585
		2290	<b>4388</b>	5,00	307	400	600
		2385	<b>4440</b>	5,23	312	405	606
		2510	<b>4669</b>	5,53	316	410	617
		2600	<b>4752</b>	5,74	321	415	623
		2710	<b>4829</b>	6,01	328	427	641
		2885	<b>4905</b>	6,42	334	435	654
		3000	<b>4975</b>	6,70	341	442	664
2850	×	2010	<b>4269</b>	4,48	298	388	583
		2135	<b>4341</b>	4,79	306	399	598
		2290	<b>4430</b>	5,17	313	406	607
		2385	<b>4483</b>	5,41	316	410	617
		2510	<b>4717</b>	5,71	324	422	632
		2600	<b>4801</b>	5,94	328	427	641
		2710	<b>4880</b>	6,21	332	432	648
		2885	<b>4959</b>	6,64	341	442	664
		3000	<b>5030</b>	6,92	347	452	679

► For additional size ranges, see next page



# Glazings, door fittings, additional functions

## S / RS 200 – steel hollow profiled section door



B

Glazing (standard delivery glass / panel separate)			Surcharge €	
Fitting of the glass or panel at the factory (observe the order information on page 223!)			Per leaf	198
For interior applications		No.	Max. glass dimensions	Per m² €
Standard glazing, laminated safety glass 8 mm		525	2600 × 4500 mm	115
Glazing laminated safety glass 10 mm		527	2600 × 4500 mm	158
Glazing laminated safety glass 6 mm with matt plastic film		528	2250 × 2333 mm	155
Glazing single-pane safety glass 8 mm		524	2400 × 4500 mm	178
Glazing single-pane safety glass 10 mm		526	2400 × 4500 mm	239
Steel panel			1250 × 2500 mm	467
Steel glass panel (2 × steel sheet, acoustic insulation glass on the inside)			1250 × 2500 mm	790

C

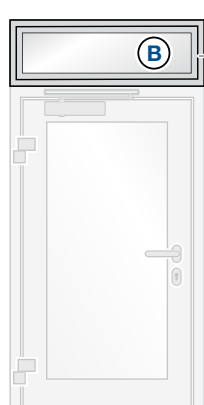
Door fitting / additional function		Surcharge €	
	• Lever handle set D116, oval rose escutcheon PC	Standard	Aluminium 98
			Stainless steel 137
	• Lever / knob handle set D116 with knob K160, oval rose escutcheon PC		Aluminium 147
			Stainless steel 216
	• TS 5000 ISM with slide rail • Fitting on opening side (hinge side) • Opening angle 173°	Standard	Silver-coloured 646
			RAL to choose 797
	• Mortice lock BKS 1828 including espagnolette lock (fixed leaf)		Standard
	• Mortice lock BKS 1821 for change-over function B including anti-panic espagnolette lock	Anti-panic function double-leaf	729
	• Mortice lock BKS 1825 for passage function D including anti-panic espagnolette lock	Anti-panic function double-leaf	560
	• Mortice lock BKS 1827 for anti-panic function E including anti-panic espagnolette lock	Anti-panic function double-leaf	565
	• Standard door hinge (Dr. Hahn 4), 20 mm pivot point, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator	EV1	Standard
		RAL to choose	62
		Stainless steel look	86
	• Steel screw-on guide roller, two-part, 3-way adjustable ⚠ Please take into consideration 2 hinges per leaf, 3 hinges each for use with an operator	RAL to choose	86
		Stainless steel	123
Smoke-tight acc. to DIN 18095 / DIN EN 1634-3			
	Retractable bottom seal	Double-leaf	350
	Delayed retractable bottom seal	Double-leaf	650
		Floor covering transition profile	Double-leaf

Accessories	
Glazings and infills	See from page 290
Horizontal rails / vertical rails	See page 305
Fittings	See from page 296
Door closers, hold-open devices and operators	See from page 312

Smoke protection

Tubular frame parts  
Steel





Transom light



Side element



Fixed glazing

Door set price =

- (A) Frame  
 + (B) Glazing

**A**

### Fixed glazing S / RS 300

Ordering sizes (RAM) up to width × up to height			Frame price  S/RS 300 RAL 9016	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1020	×	510	<b>678</b>	0,50	59	78	115
		635	<b>713</b>	0,50	66	86	130
		760	<b>748</b>	0,60	71	91	139
		885	<b>779</b>	0,72	75	98	146
		1040	<b>817</b>	0,86	79	103	153
		1135	<b>852</b>	0,95	80	104	156
		1260	<b>884</b>	1,06	81	106	159
		1395	<b>922</b>	1,19	85	109	165
1145	×	1500	<b>970</b>	1,28	86	112	168
		510	<b>700</b>	0,50	63	83	124
		635	<b>737</b>	0,56	71	91	139
		760	<b>774</b>	0,69	72	92	141
		885	<b>808</b>	0,82	76	99	148
		1040	<b>850</b>	0,98	81	106	159
		1135	<b>886</b>	1,08	83	107	161
		1260	<b>923</b>	1,21	85	109	165
1270	×	1395	<b>962</b>	1,35	89	116	175
		1500	<b>1015</b>	1,46	91	120	180
		510	<b>723</b>	0,50	67	87	131
		635	<b>762</b>	0,62	72	92	141
		760	<b>803</b>	0,77	76	99	148
		885	<b>837</b>	0,91	80	104	156
		1040	<b>881</b>	1,10	84	108	164
		1135	<b>922</b>	1,21	85	109	165
		1260	<b>961</b>	1,35	89	116	175
		1395	<b>1004</b>	1,51	91	120	180
		1500	<b>1062</b>	1,63	98	126	189

Larger RAM in width and height on request.

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 226

► For additional size ranges, see next page

**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

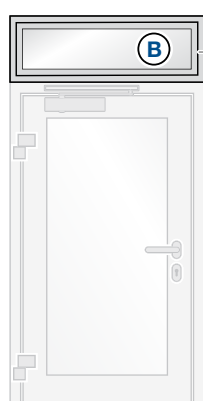
Fitting of the glass or panel at the factory (observe the order information on page 223!)

Fitting of the glass or panel at the factory (observe the order information on page 223!)			Per leaf	198
For interior applications	No.	Max. glass dimensions	Per m² €	
Standard glazing, laminated safety glass 8 mm	525	2600 × 4500 mm	115	
Glazing laminated safety glass 10 mm	527	2600 × 4500 mm	158	
Glazing laminated safety glass 6 mm with matt plastic film	528	2250 × 2333 mm	155	
Glazing single-pane safety glass 8 mm	524	2400 × 4500 mm	178	
Glazing single-pane safety glass 10 mm	526	2400 × 4500 mm	239	
Steel panel		1250 × 2500 mm	467	
Steel glass panel (2 × steel sheet, acoustic insulation glass on the inside)		1250 × 2500 mm	790	

### Accessories

Special glass	See from page 288
Optional extras	See from page 292
Horizontal rails / vertical rails	See page 305
Arches, chamfers and recesses	See from page 306





Transom light



Side element



Fixed glazing

Door set price =

- (A) Frame  
+ (B) Glazing

**A**

### Fixed glazing S / RS 300

Ordering sizes (RAM) up to width × up to height			Frame price S/RS 300 RAL 9016	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
					Preferred colour	RAL to choose	Special colour
1895	×	510	<b>830</b>	0,73	80	104	156
		635	<b>884</b>	0,96	84	108	164
		760	<b>938</b>	1,18	89	116	175
		885	<b>985</b>	1,40	91	120	180
		1040	<b>1045</b>	1,68	99	129	193
		1135	<b>1097</b>	1,85	103	133	200
		1260	<b>1150</b>	2,08	105	135	205
		1395	<b>1207</b>	2,32	109	142	213
2020	×	510	<b>853</b>	0,78	83	107	161
		635	<b>908</b>	1,02	86	112	168
		760	<b>965</b>	1,26	89	116	175
		885	<b>1014</b>	1,50	97	125	187
		1040	<b>1077</b>	1,80	102	131	196
		1135	<b>1134</b>	1,98	105	135	205
		1260	<b>1188</b>	2,22	108	141	212
		1395	<b>1248</b>	2,48	115	151	226
2145	×	510	<b>874</b>	0,83	84	108	164
		635	<b>934</b>	1,09	87	113	170
		760	<b>992</b>	1,34	91	120	180
		885	<b>1043</b>	1,60	99	129	193
		1040	<b>1110</b>	1,92	104	134	201
		1135	<b>1169</b>	2,11	107	140	209
		1260	<b>1225</b>	2,37	110	144	217
		1395	<b>1288</b>	2,64	120	156	235
		1500	<b>1377</b>	2,86	123	158	238

Larger RAM in width and height on request.

- 1) Minimum calculation surface 0.5 m<sup>2</sup>  
2) For an overview of available surface finishes, see page 226  
► For additional size ranges, see next page

**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 223!)



For interior applications	No.	Max. glass dimensions	Per leaf	Per m <sup>2</sup> €
Standard glazing, laminated safety glass 8 mm	<b>525</b>	2600 × 4500 mm	<b>198</b>	<b>115</b>
Glazing laminated safety glass 10 mm	<b>527</b>	2600 × 4500 mm		<b>158</b>
Glazing laminated safety glass 6 mm with matt plastic film	<b>528</b>	2250 × 2333 mm		<b>155</b>
Glazing single-pane safety glass 8 mm	<b>524</b>	2400 × 4500 mm		<b>178</b>
Glazing single-pane safety glass 10 mm	<b>526</b>	2400 × 4500 mm		<b>239</b>
Steel panel		1250 × 2500 mm		<b>467</b>
Steel glass panel (2 × steel sheet, acoustic insulation glass on the inside)		1250 × 2500 mm		<b>790</b>

### Accessories

Special glass	See from page 288
Optional extras	See from page 292
Horizontal rails / vertical rails	See page 305
Arches, chamfers and recesses	See from page 306

# S / RS 300 – steel fixed glazing

Smoke-tight glazing – for doors and walls  
as a transom light, side element or fixed glazing

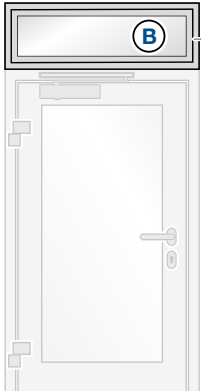
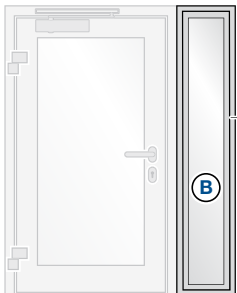

	S/RS 300	
	N-Line	S-Line
Depth [mm]	60 mm	
RAM width (min – max) [mm]	Unlimited	Unlimited
RAM height (min – max) [mm]	4500	4500
Approved as	Interior smoke-tight glazing	
Optional additional functions	 	

## Detailed product description

Technical description, fitting instructions, division dimensions, fast-track programme

S/RS 300

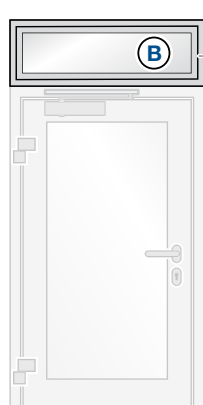
See page 233

Fixed glazing S/RS 300									
Ordering sizes (RAM) up to width × up to height		Frame price  S/RS 300 RAL 9016		m <sup>2</sup> Glazing area <sup>1)</sup>		Surface coating <sup>2)</sup> Surcharge			
						Preferred colour	RAL to choose	Special colour	
 Transom light	2270 ×	510	895	0,88		86	112	168	
		635	957	1,16		89	116	175	
		760	1019	1,43		97	125	187	
		885	1073	1,70		102	131	196	
		1040	1142	2,03		106	139	208	
		1135	1204	2,24		109	142	213	
		1260	1263	2,51		116	152	227	
		1395	1330	2,80		123	158	238	
 Side element	2395 ×	510	918	0,94		87	113	170	
		635	982	1,22		94	124	186	
		760	1046	1,51		99	129	193	
		885	1103	1,80		104	134	201	
		1040	1175	2,15		108	141	212	
		1135	1239	2,37		112	146	219	
		1260	1301	2,66		121	157	236	
		1395	1370	2,96		126	164	244	
 Fixed glazing	2500 ×	510	936	0,98		89	116	175	
		635	1002	1,28		97	125	187	
		760	1069	1,58		102	131	196	
		885	1127	1,88		106	139	208	
		1040	1202	2,25		110	144	217	
		1135	1268	2,48		116	152	227	
		1260	1332	2,78		124	161	241	
		1395	1405	3,10		129	167	251	
<b>Door set price =</b> <b>A</b> Frame <b>+ B</b> Glazing	2645 ×	510	1200	1,04		132	171	258	
		635	1270	1,36		90	118	178	
		760	1340	1,67		99	129	193	
		885	1400	1,99		103	133	200	
		1040	1480	2,39		107	140	209	
		1135	1550	2,63		116	152	227	
		1260	1618	2,94		121	157	236	
		1395	1694	3,29		126	164	244	
		1500	1802	3,56		131	170	256	
						137	178	269	

Larger RAM in width and height on request.

1) Minimum calculation surface 0.5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 226



Transom light



Side element



Fixed glazing

Door set price =

- Ⓐ Frame  
+ Ⓑ Glazing

**A**

### Fixed glazing S / RS 300

Ordering sizes (RAM) up to width × up to height	Frame price  S/RS 300 RAL 9016	m <sup>2</sup> Glazing area <sup>1)</sup>	Surface coating <sup>2)</sup> Surcharge		
			Preferred colour	RAL to choose	Special colour
2770 × 510	<b>1231</b>	1,09	94	124	186
	<b>1303</b>	1,42	101	130	194
	<b>1375</b>	1,76	105	135	205
	<b>1439</b>	2,09	109	142	213
	<b>1522</b>	2,50	121	157	236
	<b>1596</b>	2,76	124	161	241
	<b>1665</b>	3,09	129	167	251
	<b>1745</b>	3,45	135	177	266
	<b>1857</b>	3,73	140	183	273
2850 × 510	<b>1247</b>	1,12	98	126	189
	<b>1322</b>	1,46	103	133	200
	<b>1395</b>	1,81	106	139	208
	<b>1459</b>	2,15	112	146	219
	<b>1544</b>	2,58	123	158	238
	<b>1618</b>	2,84	127	166	250
	<b>1688</b>	3,18	131	170	256
	<b>1770</b>	3,55	139	180	270
	<b>1885</b>	3,84	143	187	279

Larger RAM in width and height on request.

1) Minimum calculation surface 0,5 m<sup>2</sup>

2) For an overview of available surface finishes, see page 226

► For additional size ranges, see next page

**B**

### Glazing (standard delivery glass / panel separate)

Surcharge €

Fitting of the glass or panel at the factory (observe the order information on page 223!)

For interior applications	No.	Max. glass dimensions	Per leaf	198
			Per m <sup>2</sup> €	
Standard glazing, laminated safety glass 8 mm	525	2600 × 4500 mm		115
Glazing laminated safety glass 10 mm	527	2600 × 4500 mm		158
Glazing laminated safety glass 6 mm with matt plastic film	528	2250 × 2333 mm		155
Glazing single-pane safety glass 8 mm	524	2400 × 4500 mm		178
Glazing single-pane safety glass 10 mm	526	2400 × 4500 mm		239
Steel panel		1250 × 2500 mm		467
Steel glass panel (2 × steel sheet, acoustic insulation glass on the inside)		1250 × 2500 mm		790

### Accessories

Special glass	See from page 288
Optional extras	See from page 292
Horizontal rails / vertical rails	See page 305
Arches, chamfers and recesses	See from page 306

# Good reasons to try Hörmann steel tubular frame construction project doors



Particularly narrow door view

## **S-Line system**

**HÖRMANN**



# Accessories and fittings

for steel tubular frame parts

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# Glass and panel infills

For steel fire-rated doors

F30

Item	Article		Glass number	Max. glass dimensions in mm	Infill thickness in mm	dB value Glass / panel	Minimum calculation surface	Per m²
Panel infill								
Surcharge per m² panel surface in €								
Fire protection panels								
1	F30	Fire protection panel consisting of:						
2		2 × sheet steel, inside with fire-proof core	502	1200 × 2500	29	–	0.5 m²	771
3		2 × sheet steel, inside with fire-proof core	506	1400 × 3000	34	–	0.5 m²	1120
4	F90	2 × sheet steel, inside with fire-proof core	503	1400 × 3000	29	35	0.5 m²	639
4	F90	2 × sheet steel, inside with fire-proof core	541	1200 × 2500	44	–	0.5 m²	1069
Glass infill								
Surcharge per m² glass surface in €								
Fire-proof glass								
5	F30	Standard glazing	521	1400 × 3000	16	38	0.5 m²	836
6		Structure crepi (504) on one side	704	1400 × 2500	22	40	0.5 m²	1513
7		With matt PVB plastic film	687	1400 × 2500	30	43	0.5 m²	1156
8	F90	Standard glazing (UV protection on both sides)	647	1400 × 2820	40	45	0.5 m²	2059
9		With matt PVB plastic film	563	1400 × 2900	40	44	0.5 m²	4246
Insulated fire-proof glass								
10	F30	Insulated glass (standard glass in external applications), U-value 1.1	407	1250 × 3000	44	41	0.5 m²	1536
11		Insulated glass with matt PVB plastic film	555	1250 × 3000	44	41	0.5 m²	2111
RC Break-in-resistant glass								
12	F30	As P4A (for RC 2)	398	1400 × 2500	30	43	0.5 m²	1370
13		As P5A (for RC 3)	715	1250 × 2400	30	43	0.5 m²	1405
Insulated break-in-resistant glass								
14	F30	Insulated glass as P4A (for RC 2), U-value 1.3	406	1200 × 2500	43	42	0.5 m²	1855
15		Insulated glass as P4A (for RC 2) with matt PVB film, U-value 1.0	759	1400 × 2500	45	41	0.5 m²	2405
16		Insulated glass as P5A (for RC 3), U-value 1.2	498	1200 × 2200	46	42	0.5 m²	2405
Insulated acoustic-rated glass								
17	F30	F1-30 (acoustic insulation)	415	1400 × 3300	35	45	0.5 m²	1697
18		Type 1-S (acoustic-rated with transparent film)	397	1400 × 2800	39	46	0.5 m²	1663
18		Type 2-S (acoustic-rated with matt plastic film)	708	1400 × 2800	40	45	0.5 m²	2161
Insulated acoustic-rated glass								
19	F30	Insulated acoustic-rated glass U-value 3.0	666	1400 × 2500	32	45	0.5 m²	1869
TRAV Glass as anti-fall glazing (DIN 18008)								
20	F30	Glass for TRAV application	714	1400 × 2500	31	42	0.5 m²	1322
21			753	1400 × 3300	31	42	0.5 m²	1513




## Notice:

- Glass with PVB plastic film is suitable for use at sites exposed to UV radiation.
- The above-named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

# Acoustic insulation for elements with glass

For steel fire-rated doors


F30

Acoustic insulation requirements		Required features			
Product	Acoustic value $R_{w,P}$ (test value)		Bottom edge	Infill	Acoustic value (dB value) glass / panel
T30 / F30					
HL 310	34 dB		Retractable bottom seal	Standard panels	≥ 35 dB
	35 dB			Glass	≥ 38 dB
	36 dB <sup>1)</sup>			Glass	≥ 38 dB
	36 dB			Glass	40 dB
	37 dB <sup>1)</sup>			Glass	≥ 40 dB
	39 dB <sup>1)</sup>			Glass	≥ 44 dB
	42 dB <sup>2)</sup>			Glass	≥ 46 dB
HL 320	33 dB		-	Glass	38 dB
	34 dB <sup>1)</sup>			Glass	≥ 38 dB
	36 dB			Glass	40 dB
	35 dB <sup>1)</sup>			Glass	≥ 40 dB
	37 dB <sup>1)</sup>			Glass	≥ 44 dB
	42 dB <sup>2)</sup>			Glass	≥ 46 dB
	HL 330			37 dB	
38 dB		Glass	≥ 39 dB		
42 dB		Glass	≥ 44 dB		
43 dB		Glass	≥ 46 dB		

1) In combination with infill next to the bottom seal

2) In combination with insulation for the bottom profile and 8 mm gap

## Bottom profile – acoustic insulation

 ! Only for use with the corresponding glass / panel ≥ 45 dB and retractable bottom seal

Acoustic insulation – bottom profile to achieve 42 dB with HL 310 / HL 320

Per m

187

### Notice:

$R_w$ : The acoustic insulation value  $R_w$ , also called direct acoustic insulation value, is a pure component parameter and is determined on the test bench without bypass transmission values.

The acoustic values listed in these tables are  $R_{w,P}$  values (measured values).

The tolerance allowance acc. to DIN 4109 when fitted ( $R_{w,R}$ ) must be taken into account as follows:

- For doors:  $R_{w,R} = R_{w,P}$  minus 5 dB
- For fixed glazing:  $R_{w,R} = R_{w,P}$  minus 2 dB
- With the  $R_{w,R}$  value, flanking sound transmission through the components is taken into account.

# Glazings and panels

## For smoke-tight door assemblies – steel



### Notice:

The infill dimensions can be calculated either via the statics program or based on the coupling elements:  
RAM – profile view + on each side 15 mm glass recess

Item	Glass type	Glass number	Max. glass dimensions in mm	Infill thickness in mm	U <sub>G</sub> -value W/(m <sup>2</sup> ·K)	R <sub>w</sub> -value dB Glass	Minimum calculation surface	Per m <sup>2</sup> of glass
<b>Special glass</b>								
<b>S/RS 100, S/RS 200 and S/RS 300 and S-Line</b>								
<b>Panel</b>								
1	Steel panel:	Plywood 6 mm and 2 × 1.5 mm sheet steel		Max. door dimension			0.5 m <sup>2</sup>	<b>464</b>
2	Steel glass panel	2 × steel sheet, acoustic insulation glass on the inside		Max. door dimension			0.5 m <sup>2</sup>	<b>790</b>
<b>Glass</b>								
3	Laminated safety glass	6 mm	033	2250 × 2333	6	30	0.5 m <sup>2</sup>	<b>99</b>
4		8 mm (standard)	525	2250 × 3210	8	35	0.5 m <sup>2</sup>	<b>115</b>
5		10 mm	527	2250 × 3210	10	35	0.5 m <sup>2</sup>	<b>158</b>
6		With matt film	528	2250 × 2333	6	30	0.5 m <sup>2</sup>	<b>155</b>
7		P2A (A1)	698	2250 × 3210	9	34	0.5 m <sup>2</sup>	<b>148</b>
8		P5A	791	2250 × 3210	10	38	0.5 m <sup>2</sup>	<b>325</b>
9	One-way laminated plate glass		693	1400 × 2500	7	30	0.5 m <sup>2</sup>	<b>1186</b>
10	Single-pane safety glass	6 mm (standard)	032	2100 × 3660	6	32	0.5 m <sup>2</sup>	<b>133</b>
11		8 mm	524	2400 × 4500	8	34	0.5 m <sup>2</sup>	<b>178</b>
12		10 mm	526	2400 × 4500	10	35	0.5 m <sup>2</sup>	<b>239</b>
13		Ornament 504 (structure 200)	079	1800 × 3100	6	34	0.5 m <sup>2</sup>	<b>301</b>
14		Satinato 6 mm	080	1800 × 3100	6	32	0.5 m <sup>2</sup>	<b>301</b>
15		Satinato 8 mm	087	1800 × 3100	8	34	0.5 m <sup>2</sup>	<b>378</b>
16	Insulated glass made of:	2 × laminated safety glass 6 mm	226	2000 × 3000	24	3,0	0.5 m <sup>2</sup>	<b>305</b>
17	Insulated acoustic-rated glass	Laminated safety glass 44.1	575	2250 × 3210	8	37	0.5 m <sup>2</sup>	<b>259</b>
18		Laminated safety glass 1010.2	059	2250 × 3210	20	43	0.5 m <sup>2</sup>	<b>452</b>
19		CLIMAPLUS ULTRA XN SILENCE	450	2000 × 3000	38	48	0.5 m <sup>2</sup>	<b>624</b>

### Glass for anti-fall glazing according to DIN 18008

On request

### Notice:

- Glass with PVB plastic film is suitable for use at sites exposed to UV radiation.
- The above-named surcharges are only valid in combination with a door order. Prices for single delivery on request.

# Acoustic insulation for elements with glass

## For smoke-tight door assemblies – steel



Acoustic insulation requirements		Required features	
Product	Acoustic value $R_{w,P}$ (test value)	Bottom edge	Acoustic value (dB value) glass / panel
<b>S/RS N-Line and S-Line</b>			
<b>S / RS 100 N-Line and S-Line</b>	33 dB <sup>1)</sup>	<b>Retractable bottom seal</b>	≥ 30 dB
	34 dB <sup>1)</sup>		≥ 35 dB
	36 dB <sup>1)</sup>		≥ 40 dB
	42 dB <sup>2)</sup>		≥ 46 dB
<b>S / RS 200 N-Line and S-Line</b>	33 dB <sup>1)</sup>		≥ 30 dB
	34 dB <sup>1)</sup>		≥ 35 dB
	36 dB <sup>1)</sup>		≥ 40 dB
	42 dB <sup>2)</sup>		≥ 46 dB
<b>S / RS 300 N-Line and S-Line</b>	32 dB	–	≥ 32 dB
	34 dB		≥ 35 dB
	36 dB		≥ 40 dB
	37 dB		≥ 40 dB
	44 dB <sup>3)</sup>		48 dB

- 1) In combination with infill next to the bottom seal  
 2) In combination with insulation for the bottom profile and 8 mm gap  
 3) Profiles filled with mineral wool

### Bottom profile – acoustic insulation

⚠ ! Only for use with the corresponding glass / panel ≥ 45 dB and retractable bottom seal

Acoustic insulation – bottom profile to achieve 42 dB with S/RS 100/ S/RS 200

Per m **187**

#### Notice:

$R_w$ : The sound reduction index  $R_w$  is a pure component parameter and is determined on the test bench without bypass transmission values.

The acoustic values listed in these tables are  $R_{w,P}$  values (measured values).

The tolerance allowance acc. to DIN 4109 when fitted ( $R_{w,R}$ ) must be taken into account as follows:

- For doors:  $R_{w,R} = R_{w,P}$  minus 5 dB
- For fixed glazing:  $R_{w,R} = R_{w,P}$  minus 2 dB
- With the  $R_{w,R}$  value, flanking sound transmission through the components is taken into account.

# Hinge systems

For steel fire-rated and smoke-tight doors



T30

**HL 3 × 0, S / RS x00:**

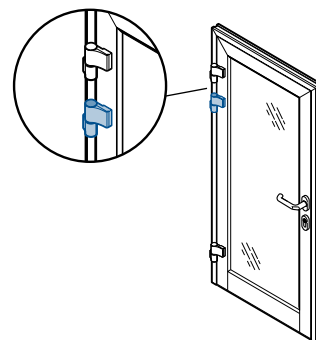
**Standard version** (included in the price)



With two 3-way adjustable hinges. Surface finish EV 1, 2-part version, pivot point 20 mm.

## Notes:

Optional 3rd hinge at a surcharge.

Three hinges (top hinge pair) must be taken into account when using operators!



		Surcharge €		
		EV1	RAL colours Special colours	Stainless steel look
3-way adjustable hinge				
Standard hinge, 2-part		Standard	62	86
Standard hinge, 2-part, as an additional 3rd hinge		89	152	175
3-part hinge, optional		84	146	169
3-part hinge, optional, as additional 3rd hinge		172	236	259




Surcharge for 3-way adjustable hinge with 36 mm pivot point for 90° opening in the passage area

per hinge

20

## Notice:

For hinges with a 36 mm pivot point, a 90° opening in the passage area is provided.

		Surcharge €	
		Stainless steel	RAL colours Special colours
Guide roller			
Weld-on guide roller		113	80
Weld-on guide roller as an additional third hinge		180	126
 In general 3 weld-on hinges are fitted for steel roller weld-on hinges			
3-way screw-on guide roller		123	85
3-way screw-on guide roller as third hinge		189	143

Concealed hinge	Galvanized blue	196
Concealed hinge as a third hinge	Galvanized blue	268
Tool kit for weld-on hinges	Blasotop	35
 The hinges must be greased at least every 50000 cycles. This can be done without needing to unhinge the leaf using this tool kit.	Food grease	153
	Lubricating nipple	85

# Bottom seals / door bottom edges

For steel fire-rated and smoke-tight doors

T30



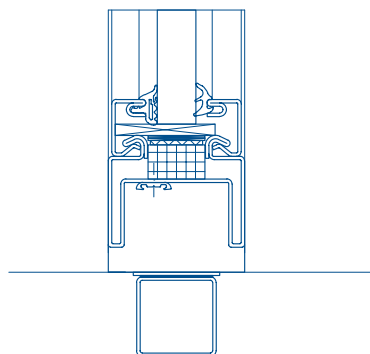
## Notes:

- Fast-track programme
- Standard programme

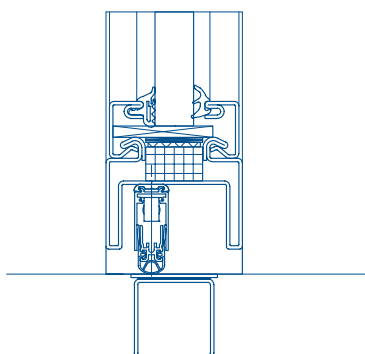
The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

Bottom seals / door bottom edges				Surcharge €		
RS For smoke-tight version acc. to DIN 18095 / DIN EN 1634-3, optional acoustic insulation acc. DIN EN ISO 717						
1	<b>Retractable bottom seal</b> • For fitting on a smooth, level floor	Single-leaf		175	●	●
		Double-leaf		350	●	●
	Floor covering transition profile flat stainless steel material • (e.g. for fitting on tiles or carpeted floor)	Single-leaf	38 × 1.2 mm	36	●	●
		Double-leaf		72		
	Floor covering transition profile flat aluminium material • As substructure for stainless steel flat material	Single-leaf	35 × 3 mm	49	●	●
		Double-leaf		97		
2	<b>Bottom spacer profile, 80 mm wide</b>	Per m	35 × 35 mm	116	●	●
			50 × 30 mm	121	●	●
	Stainless steel cover strip, 50 × 1.2 mm, for bottom spacer profile		Per m	106	●	●

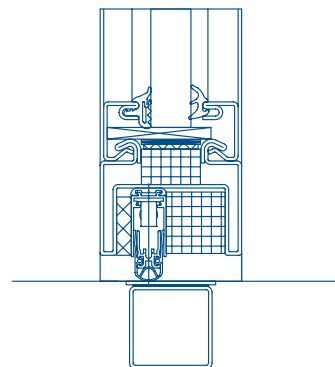
Prepared for retractable bottom seal  
(as standard for fire protection)



Retractable bottom seal  
(for smoke protection)



Retractable bottom seal in conjunction with infill  
for increased acoustic insulation requirements



# RC 2 security equipment acc. to DIN EN 1627



For steel fire-rated and smoke-tight doors

## Notes:

RC 2 security equipment not available for non-insulated smoke-tight doors!

For fixed glazings, transom lights and side elements, only the price for the respective break-in-resistant glass per m<sup>2</sup> must be calculated.

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

⚠ All prices without lever handle, lever / knob handle set!

## Break-in resistance =

Ⓐ Security features and glass + Ⓑ Locks

		T30, S/RS x00	T30, S/RS x00 With steel frame
Steel	Size range RC 2		
	Single-leaf doors max.	1500 × 2800 mm	1230 × 2278 mm
	Double-leaf doors max.	2900 × 2800 mm	2800 × 2278 mm

Ⓐ	RC 2	Security features without escape door function	Surcharges	T30	RS
1		Standard equipment RC 2	Per door	92	
2		Plus RC 2 glass (P4A)		1462	–
2.1		Plus RC 2 insulated glass (for external applications)	Per m <sup>2</sup>	1855	441

B	Locks – multiple-point locking <sup>2)</sup>		
	RC 2	Break-in resistance equipment RC 2 (no escape door function)	
	Single- and double-leaf doors		Surcharge €
	3	Multiple-point lock GU Secury type DR (3-point, mechanically self-locking) ✓ For single-leaf and double-leaf doors	606
	4	Multiple-point lock GU Secury A4 (S5) Automatic (5-point, mechanically self-locking) ✓ For single-leaf and double-leaf doors	976

- 1) At least 2 three-part hinges must be taken into account for doors opening outwards. Guide rollers are not possible for doors opening outwards!  
2) Locks with automatic multiple-point locking may not be combined with electric strikes.



# RC 2 security equipment acc. to DIN EN 1627 including escape door function

T30



For steel fire-rated and smoke-tight doors

## Notes:

RC 2 security equipment not available for non-insulated smoke-tight doors!

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order.  
Prices for single delivery on request.

⚠ All prices without lever handle, lever / knob handle set!

## Break-in resistance =

(A) Security features and glass + (B) Locks + (C) Break-in resistant fittings

	T30, S/RS x00	T30, S/RS x00 With steel frame
<b>Size range RC 2 and escape door function acc. to DIN EN 179/1125</b>		
<b>Steel</b>		
<b>Single-leaf doors max.</b>	1500 × 2800 mm	–
<b>Double-leaf doors max.</b>	2900 × 2800 mm	–



RC 2



**Security features including escape door function**

**Surcharges**

**T30**

**RS**

⚠ Doors with side element and / or rails only on request!			
1	Standard equipment RC 2 anti-panic	Per door	<b>120</b>
2	Plus RC 2 glass (P4A) and fire-proof material		<b>1612</b> –
2.1	Plus RC 2 insulated glass with fire-proof material (P4A for external applications)	Per m²	<b>2004</b> –
2.2	Plus RC 2 glass (P6B) including material for glass rebate		– <b>1178</b>



**Locks – multiple-point locking <sup>1)</sup>**

RC 2



**Escape doors according to DIN EN 179 / DIN EN 1125 and in combination with break-in resistance equipment RC 2**

<b>Single-leaf Doors</b>			<b>Surcharge €</b>
Anti-panic function			
3	BKS lock Secury 1910, change-over function B for lever handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 1050 mm RAM width		<b>1148</b>
4	BKS lock Secury 1916 with lever / knob function E for lever / knob handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 1050 mm RAM width		<b>953</b>
<b>Double-leaf Doors</b>			<b>Surcharge €</b>
Half anti-panic			
5	BKS lock Secury 1910, change-over function B for lever handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width		<b>1148</b>
6	BKS lock Secury 1916 with lever / knob function E for lever / knob handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>		<b>953</b>
Anti-panic function			
7	BKS lock Secury 1911, change-over function B for lever handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>		<b>1996</b>
8	BKS lock Secury 1919 with lever / knob function E for lever / knob handle sets, mechanically self-locking For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>		<b>1821</b>

1) Locks with automatic multiple-point locking may not be combined with electric strikes, optionally select A opener



**Break-in resistant fittings**

**Surcharge €**

**Break-in-resistant lever handle / lever / knob handle sets for RC 2 in combination with escape doors acc. to DIN EN 179**

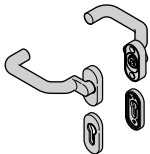

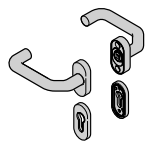

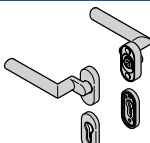
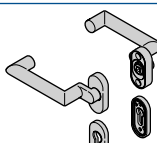

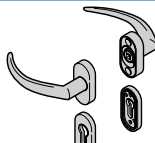

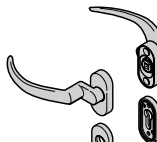







9	Fire-rated lever handle set type Premium 8830 A FS, including PC rose escutcheon	Stainless steel	<b>426</b>
10	Fire-rated lever handle set type Premium 8999 A FS, including PC rose escutcheon	Aluminium	<b>306</b>
		Stainless steel	<b>426</b>
11	Fire-rated lever / knob handle set type Premium 8830 A FS with knob 3548 VO, including PC rose escutcheon	Stainless steel	<b>376</b>
12	Fire-rated lever / knob handle set type Premium 8999 A FS with knob 3548 VO, including PC rose escutcheon	Aluminium	<b>292</b>
		Stainless steel	<b>376</b>
<b>Push bars, suitable for RC 2 break-in resistance equipment in combination with escape doors acc. to DIN EN 1125</b>			
13	Push bar type B-7401 (without counter lever / knob) ▶ Anti-panic lock required, not possible in conjunction with SVP locks, can be combined with lever handle, knob or push handle	Aluminium	<b>497</b>
		Stainless steel	<b>719</b>
14	Touch bar B-7441 (without counter lever / knob) ▶ Not possible in conjunction with SVP locks, can be combined with lever handle, knob or push handle	Aluminium	<b>792</b>
		Stainless steel	<b>1233</b>

# Lever handle sets

For steel fire-rated and smoke-tight doors

T30



Lever handle sets (including PC oval rose escutcheons)					Surcharge €		T30	T90	Smoke protection
					ECONomy	FSB – design			
					Type D 115	Type 1070			
1		<b>Type D115 / type 1070</b> 	Aluminium		188	413	●	○	●
			Stainless steel		221	634	●	○	●
2		<b>Type D116</b> 	Aluminium		98	–	●	○	●
			Stainless steel		137	–	●	○	●
3		<b>Type D315 / type 1076</b> ⚠ Not suitable for escape doors acc. to DIN EN 179	Aluminium		168	387	●	○	●
			Stainless steel		201	627	●	○	●
4		<b>Type D335 / type 1016</b> 	Aluminium		196	444	●	○	●
			Stainless steel		230	725	●	○	●
5		<b>Type D410</b> 	Aluminium		119	–	●	○	●
			Stainless steel		152	–	●	○	●
6		<b>Type D415 / type 1053</b> 	Aluminium		168	414	●	○	●
			Stainless steel		208	725	●	○	●
<b>Individual lever handle / knob</b> suitable for escape doors acc. to DIN EN 179									
7		Type D116 single handle, e.g. for fixed leaves of double-leaf doors with anti-panic function acc. to DIN EN 179		Aluminium	47				
				Stainless steel	81				
8		Type K117 knob		Aluminium	124				
				Stainless steel	169				
9		Type K160 knob		Aluminium	124				
				Stainless steel	169				
<b>Further lever handle sets</b> Lever handle sets by FSB, HEWI, DORMA, Vieler, etc.					On request				

## Notice:

Lever handle and lever / knob handle sets are included separately

- Fast-track programme
- Standard programme



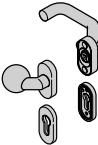

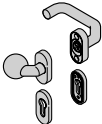

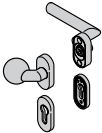
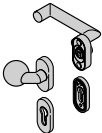

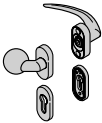



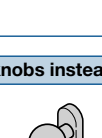

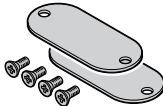
Lever handles labelled with this symbol are suited both for escape doors acc. to DIN EN 179 as well as doors without escape door function. Please state desired function on order!

# Lever / knob handle sets

For steel fire-rated and smoke-tight doors

T30



Lever / knob handle sets (lever / knob handle set with button, including PC oval rose escutcheons)						Surcharge €		T30	T90	Smoke protection
						ECONomy	FSB – design			
1		Type D115 / knob K160 Type 1070 / knob 0846 	Aluminium	Type D 115	Type 1070					
			Stainless steel	199	377	●	○	●		
				258	584	●	○	●		
2		Type D116 / knob K160 	Aluminium	Type D 116						
			Stainless steel	147	–	●	○	●		
				216	–	●	○	●		
3		Type D315 / knob K160 Type 1076 / knob 0846 ⚠ Not suitable for escape doors acc. to DIN EN 179	Aluminium	Type D 315	Type 1076					
			Stainless steel	190	376	●	○	●		
				247	593	●	○	●		
4		Type D335 / knob K160 Type 1016 / knob 0846 	Aluminium	Type D 335	Type 1016					
			Stainless steel	206	390	●	○	●		
				261	629	●	○	●		
5		Type D410 / knob K160 	Aluminium	Type D 410						
			Stainless steel	166	–	●	○	●		
				221	–	●	○	●		
6		Type D415 / knob K160 Type 1053 / knob 0846 	Aluminium	Type D 415	Type 1023 / 1053					
			Stainless steel	190	378	●	○	●		
				251	629	●	○	●		
		Type 1023 / knob 0846 ⚠ Not suitable for escape doors acc. to DIN EN 179								
Additional knobs instead of standard knob FSB 0846						€				
7		Knob°0802      Knob°0829	Aluminium	FSB – design		No surcharge				
			Stainless steel							
8		Set: cylinder cover	Aluminium	5,60	●	●				




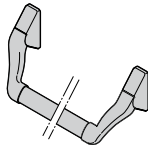
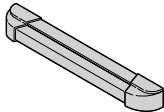


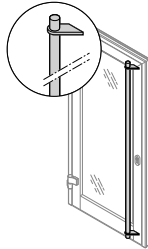
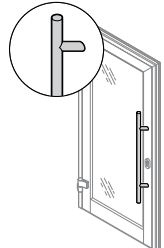
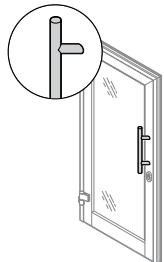
Lever handles labelled with this symbol are suited both for escape doors acc. to DIN EN 179 as well as doors without escape door function. Please state desired function on order!

# Push bars / touch bars according to DIN EN 1125 as well as push handles

For steel fire-rated and smoke-tight doors

T30



Push bars, suitable for escape doors acc. to DIN EN 1125			Surcharge €		T30	Smoke protection
						
1		Push bar type B-7401 (without counter lever / knob) ▶ Anti-panic lock required ▶ Not possible in combination with SVP locks ▶ Can be combined with lever handle, knob or push handle	Aluminium	497	●	●
			Stainless steel	719	●	●
2		Touch bar B-7441 (without counter lever / knob) ▶ Not possible in combination with SVP locks ▶ Can be combined with lever handle, knob or push handle	Aluminium	792	○	○
			Stainless steel	1233	○	○
//NEW Hörmann escape door monitor						
3		Hörmann escape door monitor, prepared for profile cylinder, battery-operated, including profile half cylinder, lever handle version, silver grey RAL 7001 with Hörmann label		1120	●	○
//NEW Escape door monitor push bar						
4		Hörmann escape door monitor, prepared for profile cylinder, battery-operated, including profile half cylinder, push bar version, silver grey RAL 7001 with Hörmann label		1086	●	○
Stainless steel push handles				Surcharge €		
5		G 32, stainless steel push bar with angled support brackets, for vertical fitting • Height ≤ 3000 mm with 2 support brackets	Up to 3000 mm	835	○	○
6		G 31, stainless steel handle with 2 angled support brackets, for vertical fitting.	Length 600 mm	223	○	○
			Length 1200 mm	405		
7		G 14-2, stainless steel handle with 2 angled support brackets, for vertical fitting.	Length 210 mm	213	○	○
Additional push handles / push bars				On request		

Operators for fire-rated doors

See from page 316

- Fast-track programme
- Standard programme

# Finger trap protection, door stops

For steel fire-rated and smoke-tight doors

T30

T90



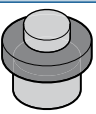
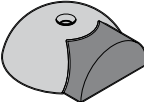
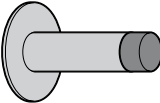
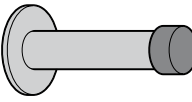
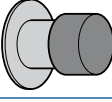
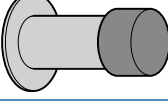

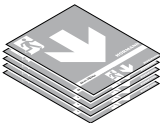
Finger trap protection for doors without operator				€
Finger trap protection on one side, for inside use				No. 25
1	Finger trap protection, anodised silver, cloth in black		Each	444
2	Finger trap protection RAL 9016, RAL 7016 or anodised stainless steel, cloth in black	Standard length 1925 mm	Each	493
3	Finger trap protection, RAL to choose, cloth in black		Each	553
4	Finger trap protection, anodised silver, cloth in black		Per metre	313
5	Finger trap protection RAL 9016, RAL 7016 or anodised stainless steel, cloth in black		Per metre	344
6	Finger trap protection, RAL to choose, cloth in black		Per metre	405
Finger trap protection, on one side, for version with guide roller, for hinge side only				No. BO-23
7	Finger trap protection, two-part, anodised silver	Standard length 1950 mm	Each	287
8	Finger trap protection, 2-part, RAL 9016	(to cut to size)	Each	322
9	Finger trap protection, anodised silver		Per metre	198
10	Finger trap protection RAL 9016		Per metre	221
Finger trap protection, on one side, for doors with outside application				No. 26
11	Finger trap protection, anodised silver, cloth in Anthracite		Each	572
12	Finger trap protection, RAL 9016, RAL 7016 or anodised stainless steel, cloth in Anthracite	Standard length 1925 mm	Each	628
13	Finger trap protection, RAL to choose, cloth in Anthracite		Each	689
14	Finger trap protection, anodised silver, cloth in Anthracite		Per metre	399
15	Finger trap protection RAL 9016, RAL 7016 or anodised stainless steel, cloth in Anthracite		Per metre	436
16	Finger trap protection, RAL to choose, cloth in Anthracite		Per metre	497

## Finger trap protection for automatic doors acc. to EN 16005

See page 214

## Operators for fire-rated doors

See from page 208

	Type	Dimensions		€
<b>Door stops for floor fitting</b>				
	Aluminium	FSB 38 3881	Ø45 mm / height 34 mm	Each 35
	Stainless steel			Each 56
	Stainless steel	BS 65	Ø65 mm / height 22 mm	Each 33
<b>Door stops for wall fitting</b>				
	Stainless steel	WS 82	Ø 19 mm / 50 mm    Length 82 mm	Each 38
	Stainless steel	WS 96	Ø 24 mm / 45 mm    Length 96 mm	Each 38
	Stainless steel	WS 46 *	Ø 33 mm / 49 mm    Height 46 mm	Each 33
	Stainless steel	WS 76 *	Ø 33 mm / 49 mm    Height 76 mm	Each 37
<b>Accessories</b>				
	Door label set "Push/Pull"		Set with 5 pairs of stickers	13,10
	Escape route sticker set Each sticker contains two separate adhesive areas for door leaf and push bar / touch bar		Set with 5 stickers	15,40

# Lock systems – single-point locking

For steel fire-rated and smoke-tight doors

T30






## Notes:

- Fast-track programme
- Standard programme

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

⚠ All prices without lever handle, lever / knob handle set!

Locks – single-point locking					
Escape doors acc. to DIN EN 179 / DIN EN 1125					
Single-leaf Doors				Surcharge €	
	Anti-panic function				
	1	BKS lock 1820, change-over function B for lever handle sets	298	●	●
	2	BKS lock 1820, change-over function B for lever handle sets with anti-panic function inwards ✗ Not suitable according to DIN EN 179 / DIN EN 1125	372	○	○
	3	BKS lock 1824, passage function D for lever handle sets	227	●	●
	4	BKS lock 1824, passage function D for lever handle sets with anti-panic function inwards ✗ Not suitable according to DIN EN 179 / DIN EN 1125	346	○	○
	5	BKS lock 1826, lever / knob function E for lever / knob handle sets	144	●	●
	6	BKS lock 1910, change-over function B for lever handle sets, mechanically self-locking	423	○	○
	7	BKS lock 1916, lever / knob function E for lever / knob handle sets, mechanically self-locking	355	○	○
	8	BKS lock 1970, forced closure function C for lever handle sets, including connection cable, self-locking, outside lever handle that can be electrically connected	1674	○	○
Double-leaf Doors				Surcharge €	
	Half anti-panic				
	9	BKS lock 1820, change-over function B for lever handle sets	298	●	●
	10	BKS lock 1824, passage function D for lever handle sets	227	●	●
	11	BKS lock 1826, lever / knob function E for lever / knob handle sets	144	●	●
	Anti-panic function				
	12	BKS lock 1821, change-over function B for lever handle sets, incl. leaf communicator ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	729	●	●
	13	BKS lock 1825, passage function D for lever handle sets, incl. leaf communicator ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	560	●	●
	14	BKS lock 1827 with lever / knob function E, for lever / knob handle sets, incl. leaf communicator ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	565	●	●
	15	BKS lock 1911, change-over function B for lever handle sets, mechanically self-locking	1147	○	○
	16	BKS lock 1917, lever / knob function E for lever / knob handle sets, mechanically self-locking	1058	○	○
17	BKS lock 1971, forced closure function C for lever handle sets, including connection cable, self-locking, outside lever handle that can be electrically connected	3166	○	○	
18	Espagnolette lock BKS 1793 with access control instead of standard lock in the fixed leaf for functions B, D and E ⚠ Required for use of hinged leaf operators with doors acc. to DIN EN 1125 ⚠ Monitoring contact required (see item 19)	1729	○	○	
Lock monitoring					
19	Monitoring contact	616	○	○	
Self-locking locks (suitable for escape doors acc. to DIN EN 179 / 1125)					
Single-leaf Doors				Surcharge €	
	20	SVP 2000, motor lock, mechanically self-locking, incl. connection cable SVP-A1100 and concealed electro duct (for lever / knob handle sets, lock control must be provided on site) ✗ Not possible with long escutcheon handle set ✓ Touch bar or anti-panic push bar possible ⚠ If applicable, a smoke detector may be required ⚠ For fire-rated doors, a motor lock control SVP-S 2X DCW and Power Reserve module SVP-PR12 may be required	2196	●	●
	21	SVP 4000, mechanically self-locking, electrical monitoring, incl. connection cable SVP-A1100 and concealed electro duct (for lever / knob handle sets, long escutcheon handle set) ✗ Not possible with touch bar or anti-panic push bar	1378	○	○
	22	SVP 5000, mechanically self-locking (for lever / knob handle sets, long escutcheon handle set possible) ✗ Not possible with touch bar or anti-panic push bar	532	○	○
	23	SVP 6000, mechanically self-locking, electrical monitoring, incl. connection cable SVP-A1100 and concealed electro duct (for lever handle sets, long escutcheon handle set possible) ✗ Not possible with touch bar or anti-panic push bar	1625	●	●
	24	Motor lock control SVP-S 42 DCW (circuit board without plastic housing and power supply unit)	1179	○	○
	25	Motor lock control SVP-S 44 DCW (circuit board with plastic housing and power supply unit)	1704	○	○
	26	Power reserve module SVP-PR12	279	○	○

1) For doors with < 2200 mm RAM (width) the anti-panic function is only possible with ECO dual locking.

# Lock systems – multiple-point locking

For steel fire-rated and smoke-tight doors

T30







## Notes:

- Fast-track programme
- Standard programme

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

⚠ All prices without lever handle, lever / knob handle set!

<b>Notes:</b> <ul style="list-style-type: none"><li>● Fast-track programme</li><li>○ Standard programme</li></ul>		T30	Smoke protection
The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.			
⚠ All prices without lever handle, lever / knob handle set!			
Locks – multiple-point locking <sup>2)</sup>			
RC 2	Break-in resistance equipment RC 2 (no escape door function)		
Single- and double-leaf doors		Surcharge €	
	⚠ Please observe the technical information regarding the security features on page 295!		
	1	Multiple-point lock GU Secury type DR (3-point, mechanical) ✓ For single-leaf and double-leaf doors	606 – ○
	2	Multiple-point lock GU Secury A4 (S5) Automatic (5-point, self-locking) ✓ For single-leaf and double-leaf doors	976 – ○
RC 2	 Escape doors according to DIN EN 179 / DIN EN 1125 and in combination with break-in resistance equipment RC 2		
Single-leaf Doors		Surcharge €	
	Anti-panic function		
	3	BKS lock Secury 1910, change-over function B for lever handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 1050 mm RAM width	1148 – ○
	4	BKS lock Secury 1916 with lever / knob function E for lever / knob handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 1050 mm RAM width	953 – ○
Double-leaf Doors		Surcharge €	
	Half anti-panic		
	5	BKS lock Secury 1910, change-over function B for lever handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	1148 – ○
	6	BKS lock Secury 1916 with lever / knob function E for lever / knob handle sets, mechanically self-locking ⚠ For doors opening outwards (glazing bead on opposite hinge side) only possible from 2200 mm RAM width <sup>1)</sup>	953 – ○

1) For doors with < 2200 mm RAM (width) the anti-panic function is only possible with ECO dual locking.

2) Locks with automatic multiple-point locking must not be combined with electric strikes. please optionally select an A opener

1) For doors with <2200 mm RAM (width) the anti-panic function is only possible with ECO dual locking.

2) Locks with automatic multiple-point locking must not be combined with electric strikes, please optionally select an A opener

**Lever handles and lever / knob handle sets according to DIN EN 179**

See page 296

**Push bar / touch bar acc. to DIN EN 1125**

See page 298

# Electric extras and lockings

For steel fire-rated and smoke-tight doors

T30



## Notes:

- Fast-track programme
- Standard programme

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

Surcharge €				T30	Smoke protection
<b>Lockings</b>					
⚠ The ECO dual locking is not possible for EI90 elements!					
1	Bottom locking of the fixed leaf and adjustable bottom bush	Double-leaf door	110	○	○
2	ECO dual locking without bottom locking for anti-panic function, to be combined with a half anti-panic lock <sup>1)</sup>	Double-leaf door	43	●	●
3	ECO dual locking with bottom locking and adjustable bottom bush for anti-panic function, to be combined with a half anti-panic lock <sup>1)</sup>	Double-leaf door	200	○	○
4	Optional additional top locking for traffic leaf (BKS 1838) ⚠ Take any additional electric strikes into account	Each	452	○	○
5	Preparation for block lock, including concealed electro duct <sup>2)</sup> ⚠ Lock must be provided for preparation	Each	436	○	○
<b>Electric strikes</b>					
<b>Fire protection</b>					
6	IST FT 502-FB, 12 – 24 V, adjustable	Single-leaf door	495	●	–
7	IST FT 502-FB, 12 – 24 V, adjustable, incl. concealed electro duct	Double-leaf door	708	●	–
8	IST FT 503-FB, 12 – 24 V, adjustable, with feedback	Single-leaf door	603	●	–
9	IST FT 503-FB, 12 – 24 V, adjustable, with feedback, incl. concealed electro duct	Double-leaf door	817	●	–
<b>Smoke protection</b>					
10	IST A 5002-FB, 12 – 24 V, adjustable	Single-leaf door	161	–	●
11	IST A 5002-FB, 12 – 24 V, adjustable, incl. concealed electro duct	Double-leaf door	373	–	●
12	IST A 5003-FB, 12 – 24 V, adjustable, with feedback	Single-leaf door	196	–	●
13	IST A 5003-FB, 12 – 24 V, adjustable, with feedback, incl. concealed electro duct	Double-leaf door	409	–	●
<b>Automatic opener for multiple-point automatic locks</b>					
14	A opener for motor-powered opening of locks, including connection cable and concealed electro duct. ⚠ Emergency power buffer mandatory!	Each	563	○	○
14.1	Emergency power buffer 12 – 24 V (AC, DC)	Each	657	○	○
14.2	Emergency power buffer 24 V (DC)	Each	361	○	○
<b>Escape door opener <sup>3)</sup></b>					
15	GEZE escape door opener FTV 320	Single-leaf door	1650	○	○
16	GEZE escape door opener FTV 320 incl. concealed electro duct	Double-leaf door	1863	○	○
17	Dorma escape door electric strike TV 505 (506), 24 V (DCW)	Each	1379	○	○
<b>Electromechanical alarm contact elements</b>					
18	Alarm contact element 019030 <sup>2)</sup>	Each	735	○	○
19	Alarm contact element 019033 with reed contact <sup>2)</sup>	Each	824	○	○
<b>Cylinder</b>					
20	Profile cylinder, matt nickel-plated (40.5 / 40.5)	Each	34	○	○
21	Blind cylinder, matt nickel-plated (40.5 / 40.5)	Each	28	○	○
22	Security cylinder for RC 2 (31.5 / 40.5)	Each	125	○	○
<b>Reed contact, latch switching contact</b>					
23	Reed contact Link <sup>4)</sup> VDS class B, cable length 10 m	Each	83	●	●
24	Latch switching contact, Link 100 1331, VDS class C, cable length 10 m	Single-leaf door	108	●	●
25	Latch switching contact, Link 100 1331, VDS class C, cable length 10 m ▶ Fixed leaf monitoring via espagnolette lock / switch latch in the frame	Double-leaf door	199	●	●
26	Latch switching contact, Link 100 1331, VDS class C, cable length 10 m, including electro duct ▶ Traffic and fixed leaf monitoring ✗ Not in combination with ECO dual locking	Double-leaf door	322	●	●
27	Latch switching contact, Link 100 1331, VDS class C, cable length 10 m, including electro duct ▶ Fixed leaf monitoring via ECO dual locking	Double-leaf door	573	○	○
<b>Electro ducts</b>					
28	Concealed electro duct	Each	213	○	○
29	Detachable electro duct – Kü trenn	Each	268	○	○
<b>Fitting and fixing material including block material</b>					
30	Fixing material for anchor fitting, through-plug fitting or screw fixing including block material made of hardwood for 20 mm structural gap	Single or double-leaf doors or fixed glazings	32	○	○
		Doors with side element / transom light (fire-rated door) <sup>5)</sup>	39	○	○



# Reed contacts, latch switching contacts, fixing material



For steel fire-rated and smoke-tight doors

## Notes:

- Fast-track programme
- Standard programme

The named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order. Prices for single delivery on request.

31	Fixing material for fitting by welding or flush-fitting screw-fixing <sup>6)</sup> incl. block material made of hardwood for 20 mm structural gap	Single or double-leaf doors or fixed glazings	43	○	○	
		Doors with side element / transom light (fire-rated door) <sup>5)</sup>	53	○	○	
Fixing block material sets						
32	Steel supports and spacer blocks made of hardwood	44 × 98 × 2 mm	Pack unit: 100	48	●	●
		44 × 98 × 3 mm	Pack unit: 100	51	●	●
		44 × 98 × 5 mm	Pack unit: 100	56	●	●
		44 × 98 × 10 mm	Pack unit: 100	84	●	●
Accessories for structural gap						
33	Mineral wool fire protection pack for structural gap Set of 6 strips with 64 × 50 × 1000 mm each (possible to cut on-site)		28	○	○	

- 1) ECO dual locking not possible with integrated overhead door closer ITS and with frame without face
- 2) Consult with the regulations of EitVTR (directive for electrical locking systems) prior to use
- 3) Escape door opener only on request for frame without face
- 4) Reed contact only on request for frame without face
- 5) Doors with side element and / or transom light in certain size ranges (see approval)

## Notice on fixing material:

The listed fixing material is approved and the correct fastening is described in the fitting instructions. Deviating fixing materials for through-plug or screw-on fitting must have an appropriate approval. The specifications (e.g. necessary edge distances) must be agreed with the respective manufacturer or taken from the technical documents.

# Extensions, couplings and statics profiles

For steel fire-rated and smoke-tight doors

T30



## Notice:

- Fast-track programme
- Standard programme

				Standard colour RAL 9016	Preferred colour / RAL to choose	Special colour	T30	Smoke protection
Notice:								
● Fast-track programme								
○ Standard programme								
Surcharge per m €								
Extensions, couplings, statics								€
T30 extension profiles for steel tubular frame parts				Surcharge per m €				
1	T30 extension profile	Viewed width 30 mm	Per m	137	148	158	●	●
		Viewed width 50 mm	Per m	140	166	187	●	●
	▶ Max. 3 units each on left, right and top							
2	T30 S-Line extension profile, viewed width 59 mm*		Per m	152	169	183	●	●
▶ Max. 3 units each on left, right and top								
3	T30 N-Line extension profile, viewed width 63 mm*		Per m	175	195	217	●	●
▶ Max. 3 units each on left, right and top								
▶ Horizontal extension profiles are always continuous								
Corner profiles (not for external applications)				Surcharge per m €				
4	Corner profile section 90°	T30	Per m	511	544	560	○	○
5	Corner profile section 135°	T30	Per m	486	515	532	○	○
Statics profiles				Surcharge per m €				
6	Statics profile version A	Separate	Per m	116	127	137	○	○
7	Statics profile version B	Separate	Per m	168	184	195	○	○
8	Statics profile version D	Separate	Per m	116	127	137	–	○

\* Not possible with coupling constructions

► Statics profiles in accordance with the statics program or from page 238

# Vertical and horizontal rails, crossing points

For steel fire-rated and smoke-tight doors



Horizontal rail / vertical rail			
Rails HL 310, HL 320 and HL 330 both S-Line and N-Line			Surcharge €
Horizontal rail / vertical rail (90 mm S-Line, 105 mm N-Line)	Per m	RAL 9016	200
		Preferred colour / RAL to choose	213
		Special colour	219
Crossing point for fire-rated doors	Each		229
S/RS 100, S/RS 200, S/RS 300			Surcharge €
Horizontal rail / vertical rail (90 mm S-Line, 105 mm N-Line)	Per m	RAL 9016	127
		Preferred colour / RAL to choose	135
		Special colour	140
Crossing point for smoke-tight doors	Each		213

<b>Maximum number of rails</b>	HL x	see product descriptions from page 214
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Angled glazing bead			
HL 310, HL 320 and HL 330, both S-Line and N-Line as well as S/RS 100, S/RS 200, S/RS 300			Surcharge €
Angled glazing bead, screw-connected (15 x 25 x 2 mm)	per glass section	Surcharge €	344
Only possible with cylinder head screws!			

# Arches, chamfers and recesses

For steel fire-rated and smoke-tight doors

F30

F90



Arches (pointed, segmental and Norman arches)			€
F30 / F90			On request
S/RS 300			
Chamfers and recesses			€
F30	Chamfers and recesses	Per chamfer or recess	690
	Rail connection to a chamfer	Surcharge per connection	158
	Standard glass with a chamfer or recess	Surcharge per m <sup>2</sup> (RAM)	306
	Additionally for special glass listed on page 288	Surcharge per m <sup>2</sup> (RAM)	30 %
	ISO-F30 glass with a chamfer or recess	Surcharge per m <sup>2</sup> (RAM)	1415
	Additionally for special insulated glasses acc. to page 288	Surcharge per m <sup>2</sup> (RAM)	50 %
S/RS 300	Chamfer or recess in side element or transom light	Per chamfer	690
	Standard glass with a chamfer	Surcharge per m <sup>2</sup> (RAM)	120
	Additionally for special glass acc. to page 290	Surcharge per m <sup>2</sup> (RAM)	30 %
	Surcharge for rail connection to a chamfer	Each	158

## Notice:

- For each Norman arch, a completely dimensioned CAD drawing is to be provided free of charge. If this is not possible, the factory can perform a measurement on-site using a 3D measuring device. The customer bears the costs of this measurement.
- For Norman arches, the radius must be  $\geq 500$  mm.

# Hold-open devices and accessories

For steel fire-rated and smoke-tight doors

T30



⚠ Depending on local requirements, more than 1 smoke detector may be necessary. Please order these additionally.

## Components for a hold-open device with magnet:

- Door magnet wall or floor fitting (per leaf for double-leaf doors), with counterplate, 1 x smoke detector type H-RM-4070 with dust protection cap and fitting base H-RM with support bracket for fitting to the lintel
- Hold-open device control unit FSA Basis (transformer incl. push button)

Magnets for DORMA smoke switch control units					
Item	Article	Magnet unit price		Smoke detector H-RM-4070 (intel fitting)	Hold-open device control unit FSA Basis *
		Stainless steel	White		
Door magnet for floor fitting					
1	With standard counterplate	475	394	312	287
2	With angle adjustment counterplate	544	463		
3	With telescopic counterplate	676	596		
Surface-mounted door magnet for wall fitting					
4	With standard counterplate	391	312	312	287
5	With angle adjustment counterplate	462	381		
6	With telescopic counterplate	594	513		
Magnets for GEZE smoke switch control units					
Item	Article	Magnet unit price		Smoke detector H-RM-4070 (intel fitting)	Hold-open device control unit FSA Basis *
Door magnet for floor fitting					
7	With standard counterplate	345		312	287
Surface-mounted door magnet for wall fitting					
8	With standard counterplate	217		312	287
9	With post extension 185 mm	340			
10	With post extension 335 mm	572			
11	With post extension 485 mm	593			
Optional extras for door closers and hold-open devices					
12	Hekatron RSZ compact (white or silver)				Each 694
13	GEZE smoke switch control unit RSZ 7				Each 773
14	Dorma smoke switch control unit RMZ				Each 773
15	Hold-open device control unit Hörmann FSA Basis				Each 287
16	Hörmann smoke detector type H-RM 4070 with dust protection cap and fitting base for fitting to ceiling <sup>1)</sup>				Each 293
17	Hörmann hold-open device control unit FSZ				Each 301
18	Smoke detector type ORS 142 with dust protection cap and fitting base 143 A for fitting to ceiling				Each 308
19	Hörmann push button HAT 02				Each 73
20	Hörmann log book for hold-open devices				Each 21

\* Includes transformer and push button

1) Only possible in combination with hold-open device control unit Hörmann FSA Basis!

## Notice:

Door magnets without external smoke detectors and transformers (delivered as separate parts in accessory pack)

Electric wiring and initial start-up of hold-open devices must be performed on-site by GEZE or DORMA and are not included in the aforementioned prices.

# Fittings and optional extras

T90

For T90 steel fire-rated doors

## HL 910 F and HL 920 F

Hinges				
1	Weld-on door hinge, two-part, 17 mm pivot point	RAL to choose		No surcharge
2	Weld-on door hinge, three-part, 17 mm pivot point	RAL to choose	Each	194
3	Screw-on door hinge, three-part, 20 or 36 mm pivot point	RAL to choose	Each	305
Anti-panic locks, suitable acc. to DIN EN 179 / DIN EN 1125				
For single-leaf doors				
4	Anti-panic lock with change-over function B for lever handle sets			189
5	Anti-panic lock with passage function D for lever handle sets			134
6	Anti-panic lock with anti-panic function E for lever / knob handle sets			144
For double-leaf doors				
7	Anti-panic lock as half anti-panic lock with change-over function B for lever handle sets	Without locking of fixed leaf		240
8	Anti-panic lock as half anti-panic lock with passage function D for lever handle sets	Without locking of fixed leaf		218
9	Anti-panic lock as half anti-panic lock with anti-panic function E for lever / knob handle sets	Without locking of fixed leaf		240
10	Anti-panic lock as half anti-panic lock with change-over function B for lever handle sets			617
11	Anti-panic lock as half anti-panic lock with passage function D for lever handle sets			570
12	Anti-panic lock as half anti-panic lock with anti-panic function E for lever / knob handle sets			594
13	Anti-panic lock with anti-panic function and change-over function B for lever handle sets, including leaf communicator			937
14	Anti-panic lock with anti-panic function and passage function D for lever handle sets, including leaf communicator			760
15	Anti-panic lock with anti-panic function and function E for lever / knob handle sets, including leaf communicator			918
16	Bottom locking of the fixed leaf and adjustable bottom bush			189
Self-locking anti-panic locks				
For single-leaf doors				
17	SVP 2000, motor lock, mechanically locking, incl. connection cable SVP-A1000 and concealed electro duct (for lever / knob handle sets, lock control must be provided on-site)			2196
	✗ Not possible with long escutcheon handle set			
	✓ Touch bar or anti-panic push bar possible			
	⚠ A smoke detector is required			
	⚠ Motor lock control SVP-S 2X DCW and Power Reserve module SVP-PR12 required for fire-rated doors			
18	SVP 4000, mechanical locking, electrical monitoring, incl. connection cable SVP-A1000 and concealed electro duct (for lever / knob handle sets, long escutcheon handle sets)			1378
	✗ Not possible with touch bar or anti-panic push bar			
19	SVP 5000, mechanical locking (for lever / knob handle sets, long escutcheon handle set possible)			532
	✗ Not possible with touch bar or anti-panic push bar			
20	SVP 6000, mechanical locking, electrical monitoring, incl. connection cable SVP-A1000 and concealed electro duct (for lever handle sets, long escutcheon handle set possible)			1625
	✗ Not possible with touch bar or anti-panic push bar			
21	Motor lock control SVP-S 22 DCW (circuit board without plastic housing and power supply unit)			1179
22	Motor lock control SVP-S 24 DCW (circuit board with plastic housing and power supply unit)			1704
23	Power reserve module SVP-PR12			279
Extensions				
24	Extension profile, viewed width 30 mm		Per m	270
25	Extension profile, viewed width 50 mm		Per m	315
26	Rails 90 mm, glass-dividing		Per m	469
27	Crossing point at rail fitting for glass-dividing rails		Each	272
Electric strike, escape door opener				
28	IST FT 502-FB, 12 – 24 V, adjustable		Single-leaf Door	482
29	IST FT 502-FB, 12 – 24 V, adjustable, including covered electro duct		Double-leaf Door	579
30	IST FT 503-FB, 12 – 24 V, adjustable, with feedback		Single-leaf Door	568
31	IST FT 503-FB, 12 – 24 V, adjustable, with feedback, including concealed electro duct		Double-leaf Door	654
32	Escape door electric strike TV 505 (506), 24 V		Each	1310
Closing control, latch switching contacts				
33	Reed contact Link, VDS class B, cable length 10 m		Each	126
34	Novar round reed contact, VDS class C, cable length 10 m		Each	126
35	Latch switching contact, Link 100 13 31, VDS class C, cable length 10 m		Single-leaf Door	107
36	Latch switching contact, Link 100 13 31, VDS class C, cable length 10 m, including electro duct		Double-leaf Door	238
	► Traffic and fixed leaf monitoring			
37	Concealed electro duct		Each	131

# Fittings and optional extras

T90

For T90 steel fire-rated doors

HL 910 F and HL 920 F

Bottom seals without threshold				€
38	Retractable bottom seal <ul style="list-style-type: none"><li>• For fitting on a smooth, level floor</li><li>• Stiffener only for transport protection</li></ul>		Single-leaf	175
			Double-leaf	350
39	Floor covering transition profile flat stainless steel material	50 x 1.2 mm	Per m	53
		50 x 5 mm	Per m	58
Electromechanical alarm contact elements				€
40	Block lock / alarm contact element Eff-Eff 843		Single-leaf / double-leaf	985
Fitting and fixing material				€
41	Fixing material for anchor fitting, through-plug fitting, fitting by welding, or screw fixing			No surcharge

## Notice:

The above-named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order.  
Prices for single delivery on request.

Infills and glass						Surcharge per m² glass surface in €	
► The infill dimensions can be calculated either via the statics program or based on the coupling elements: RAM – profile view + 14 mm glass recess on each side							
Item	Article	Glass no.	Max. glass dimensions in mm	Glass thickness in mm	dB value Glass	Minimum calculation surface	Per m² of glass
T90 / F90						Surcharge per m² €	
Fire protection panel							
42	Fire protection panel F90 consisting of: 2 x sheet steel, inside with fire-proof core		1410 x 1880	35		0.5 m²	859
Fire-proof glass							
43	Fire-proof glass F90 — With transparent PVB film	562	1290 x 2530	40	40	0.5 m²	1944
44	Fire-proof glass F90 — With matt PVB plastic film	563	1290 x 2530	40	40	0.5 m²	4259

## Notice:

Glass with PVB plastic film is suitable for use at sites exposed to UV radiation.

The above-named surcharges (price reduction from standard fittings and add-on parts accounted for!) are only valid in combination with a door order.  
Prices for single delivery on request.

# Door closers and hold-open devices

For steel fire-rated doors

T30

T90



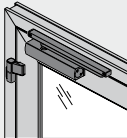
HL 310, HL 910 F as well as S / RS 100 and S / RS 100 S-Line


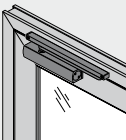
## General notes on using and equipping door closers

See page 223

### Notice:

- Fast-track programme
- Standard programme

For fitting on the hinge side		Overall frame dimension		Silver-coloured	Delivery programme	RAL colours / special colours	Delivery programme
		Min.	Max.				
GEZE – TS 5000							
Surcharge €							
<b>TS 5000</b> <ul style="list-style-type: none"><li>• Opening angle 173°</li><li>• May also be used for overhead fitting on the opposite hinge side</li></ul>	605	1500	308	●	360	○	
<b>TS 5000 E *</b> <ul style="list-style-type: none"><li>• Opening angle 173°</li><li>• Hold-open angle 80 – 130°</li></ul>	756	1500	686	○	738	○	
<b>TS 5000 R *</b> <ul style="list-style-type: none"><li>• Opening angle 173°</li><li>• Hold-open angle 80 – 130°</li><li>• Extension profile for glazing beads on the hinge side 25 mm</li></ul>	970	1500	1430	●	1482	○	
<b>TS 5000 EFS *</b> <ul style="list-style-type: none"><li>• Opening angle 173°</li><li>• Hold-open angle 80 – 130°</li></ul>	756	1500	1900	○	1952	○	
<b>TS 5000 RFS *</b> <ul style="list-style-type: none"><li>• Opening angle 173°</li><li>• Hold-open angle 80 – 130°</li><li>• Extension profile for glazing beads on the hinge side 25 mm</li></ul>	970	1500	2882	○	2934	○	
<b>TS 5000 ECline</b> <ul style="list-style-type: none"><li>• With EC Line slide rail</li><li>• Opening angle 173°</li><li>• Max. leaf weight 250 kg</li><li>✓ Suitable for barrier-free construction acc. to DIN 18040</li></ul>	605	1338	349	○	401	○	
<b>TS 5000 E ECline *</b> <ul style="list-style-type: none"><li>• Opening angle 173°</li><li>• Hold-open angle 80 – 130°</li><li>• Max. leaf weight 250 kg</li><li>✓ Suitable for barrier-free construction acc. to DIN 18040</li></ul>	756	1338	728	○	780	○	
<b>TS 5000 R ECline *</b> <ul style="list-style-type: none"><li>• Opening angle 173°</li><li>• Hold-open angle 80 – 130°</li><li>• Extension profile for glazing beads on the hinge side 25 mm</li><li>• Max. leaf weight 250 kg</li><li>✓ Suitable for barrier-free construction acc. to DIN 18040</li></ul>	970	1338	1474	○	1526	○	

For fitting on the opposite hinge side  HL 310 only for the N-Line version		Overall frame dimension		Silver-coloured	Delivery programme	RAL colours / special colours	Delivery programme
		Min.	Max.				
GEZE – TS 5000							
		Surcharge €					
TS 5000 L • Opening angle 173°		796	1500	331	○	383	○
TS 5000 L-E • Opening angle 173° • Hold-open angle 80 – 130°		796	1500	761	○	813	○
TS 5000 L-R • Opening angle 173° • Hold-open angle 80 – 130°		1010	1500	1505	○	1557	○

\* △ Hold-open devices are not suitable for use with external doors

## Magnets, smoke switch control units and further accessories for door closers

See page 307

## Operators for fire-rated doors

See from page 316



# Door closers and hold-open devices

For steel fire-rated doors

T30

T90



HL 310, HL 910 F as well as S / RS 100 and S / RS 100 S-Line


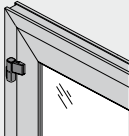


## General notes on using and equipping door closers

See page 223

### Notice:

- Fast-track programme
- Standard programme

For fitting on the hinge side	Overall frame dimension		Silver-coloured	Delivery programme	RAL colours/ special colours	Delivery programme
	Min.	Max.				
						
Dorma						
Surcharge €						
TS 93 B						
• Opening angle 180°	673	1500	308	●	360	○
TS 93 B EMF *						
• Opening angle 120°	766	1500	686	○	738	○
• Hold-open angle traffic leaf 80° – 120°						
TS 93 B EMR *						
• Opening angle 120°	938	1500	1430	●	1482	○
• Hold-open angle traffic leaf 80° – 120°						
TS 98 XEA						
• Opening angle 180°	673	1488	750	○	802	○
DORMA TS 98 XEA EMF						
• Opening angle 140°	766	1488	1353	○	1405	○
• Hold-open angle traffic leaf 80° – 140°						
DORMA TS 98 XEA EMR						
• Opening angle 140°	938	1488	2638	○	2690	○
• Hold-open angle traffic leaf 80° – 140°						
TS 99 FL *						
• Compensator function from door opening angle > 0°	816	1338	1765	○	1817	○
✓ Suitable for barrier-free construction acc. to DIN 18040						
TS 99 FLR-K *						
• Compensator function from door opening angle > 0°	911	1338	2949	○	3001	○
✓ Suitable for barrier-free construction acc. to DIN 18040						

 <b>Not suitable for T90 HL 910 F!</b>		Overall frame dimension			Delivery programme
		Min.	Max.		
Concealed door closer Dorma – ITS 96					Surcharge €
<b>ITS 96</b> <ul style="list-style-type: none"><li>• Opening angle 120°</li><li>• <i>Max. leaf weight 130 kg</i></li></ul>  Suitable for use with frame without face	≥ 788	≤ 1188	547	<input type="radio"/>	
<b>ITS 96</b> <ul style="list-style-type: none"><li>• Opening angle 120°</li><li>• <i>Max. leaf weight 180 kg</i></li></ul>  Suitable for use with frame without face	≥ 788	≤ 1488	634	<input type="radio"/>	
<b>ITS 96 G EMF *</b> <ul style="list-style-type: none"><li>• Opening angle 120°</li><li>• Hold-open angle traffic leaf 80° – 120°</li><li>• <i>Max. leaf weight 130 kg</i></li></ul>	≥ 832	≤ 1188	1183	<input type="radio"/>	
<b>ITS 96 G EMF *</b> <ul style="list-style-type: none"><li>• Opening angle 120°</li><li>• Hold-open angle traffic leaf 80° – 120°</li><li>• <i>Max. leaf weight 180 kg</i></li></ul>	≥ 832	≤ 1338	1268	<input type="radio"/>	

\* ⚠ Hold-open devices are not suitable for use with external doors

### Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.
- Smoke switch control units must be fitted on the wall lintel for single and double-leaf doors without transom light

## Magnets, smoke switch control units and further accessories for door closers

See page 307

## Operators for fire-rated doors

See from page 316

# Door closers and hold-open devices

For steel fire-rated doors

T30

T90

RS

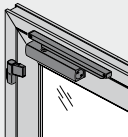
HL 320, HL 920 F as well as S / RS 200 and S / RS 200 S-Line

## General notes on using and equipping door closers

See page 223

### Notice:

- Fast-track programme
- Standard programme

For fitting on the hinge side	Overall frame dimension		Traffic leaf division dimensions		Fixed leaf division dimensions		Silver-coloured	Delivery programme	RAL colours / special colours	Delivery programme
	Min.	Max.	Min.	Max.	Min.	Max.				
										
GEZE – TS 5000										
<b>TS 5000 ISM</b> • Opening angle 173°	1388	3000	≥ 694	≤ 1500	≥ 500	≤ 1500	646	●	797	○
<b>TS 5000 E-ISM *</b> • Opening angle 173° • Hold-open angle 80 – 130° (both leaves)	1388	3000	≥ 694	≤ 1500	≥ 500	≤ 1500	1535	○	1686	○
<b>TS 5000 ISM-EFS *</b> • Opening angle 173° • Hold-open angle 80 – 130° (both leaves)	1388	3000	≥ 694	≤ 1500	≥ 500	≤ 1500	2413	○	2564	○
<b>TS 5000 R-ISM *</b> • Opening angle 173° • Hold-open angle 80 – 130° (both leaves) • Extension profile for glazing beads on the hinge side 25 mm	1620	3000	≥ 919	≤ 1500	≥ 500	≤ 1500	2373	●	2524	○
<b>TS 5000 R-ISM EFS *</b> • Opening angle 173° • Compensator and hold-open function (only traffic leaf) • Extension profile for glazing beads on the hinge side 25 mm	1588	2588	≥ 794	≤ 1294	≥ 500	≤ 1294	3986	○	4137	○
<b>TS 5000 ECline ISM</b> • Opening angle 173° • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	1388	2588	≥ 694	≤ 1294	≥ 500	≤ 1294	689	○	840	○
<b>TS 5000 ECline E-ISM *</b> • Opening angle 173° • Hold-open angle 80 – 130° (both leaves) • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	1388	2588	≥ 694	≤ 1294	≥ 500	≤ 1294	1474	○	1625	○
<b>TS 5000 ECline R-ISM *</b> • Opening angle 173° • Hold-open angle 80 – 130° (both leaves) • Extension profile for glazing beads on the hinge side 25 mm • Max. leaf weight 250 kg ✓ Suitable for barrier-free construction acc. to DIN 18040	1588	2588	≥ 919	≤ 1294	≥ 500	≤ 1294	2417	○	2568	○

\* ⚠ Hold-open devices are not suitable for use with external doors

### Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

## Concealed door closer for HE 321

See page 315

## Magnets, smoke switch control units and further accessories for door closers

See page 307

## Operators for fire-rated doors

See from page 316

# Door closers and hold-open devices

For steel fire-rated doors

T30

T90

RS

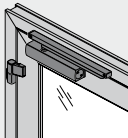
HL 320, HL 920 F as well as S / RS 200 and S / RS 200 S-Line

## General notes on using and equipping door closers

See page 223

### Notice:

- Fast-track programme
- Standard programme

For fitting on the hinge side 	Overall frame dimension		Traffic leaf division dimensions		Fixed leaf division dimensions		Silver-coloured	Delivery programme	RAL colours / special colours	Delivery programme
	Min.	Max.	Min.	Max.	Min.	Max.				
Dorma – TS 93										
Surcharge €										
TS 93 GSR • Opening angle 180°	1308	3000	≥ 750	≤ 1500	≥ 500	≤ 1500	646	●	797	○
TS 93 GSR EMF 1 G * • Opening angle 130° • Hold-open angle traffic leaf 80° – 130°	1308	3000	≥ 750	≤ 1500	≥ 500	≤ 1500	1020	○	-	○
TS 93 GSR EMF 2 * • Opening angle 130° • Hold-open angle 80° – 130° (both leaves)	1308	3000	≥ 750	≤ 1500	≥ 500	≤ 1500	1535	○	1686	○
TS 93 GSR EMR 1 G * • Opening angle 130° • Hold-open angle traffic leaf 80° – 130°	1788	3000	≥ 750	≤ 1500	≥ 500	≤ 1500	2390	○	-	○
TS 93 GSR EMR 2 * • Opening angle 130° • Hold-open angle 80 – 130° (both leaves)	1788	3000	≥ 750	≤ 1500	≥ 500	≤ 1500	2373	●	2524	○
DORMA TS 98 XEA GSR • Opening angle 180°	1308	2888	750	1444	500	1444	1765	○	1916	○
DORMA TS 98 XEA GSR EMF 2 • Opening angle 130° • Hold-open angle 80 – 130° (both leaves)	1308	2888	750	1444	500	1444	3049	○	3200	○
DORMA TS 98 XEA GSR EMR 2 • Opening angle 130° • Hold-open angle 80 – 130° (both leaves)	1788	2888	750	1444	500	1444	3952	○	4103	○
TS 99 FL GSR * • Compensator function from door opening angle > 0° ✓ Suitable for barrier-free construction acc. to DIN 18040	1438	2588	≥ 750	≥ 1294	≥ 500	≥ 1294	2278	○	2429	○
TS 99 FL GSR-EMF 1 * • Compensator on traffic leaf and electromechanical hold-open device on fixed leaf • Compensator function from door opening angle > 0° ✓ Suitable for barrier-free construction acc. to DIN 18040	1438	2588	≥ 750	≥ 1294	≥ 500	≥ 1294	2952	○	-	○
TS 99 FL GSR-EMR 1 * • Compensator on traffic leaf and electromechanical hold-open device on fixed leaf • Compensator function from door opening angle > 0° ✓ Suitable for barrier-free construction acc. to DIN 18040	1788	2588	≥ 894	≥ 1294	≥ 500	≥ 1294	3712	○	-	○

\* ⚠ Hold-open devices are not suitable for use with external doors

### Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

## Concealed door closer for HE 321

See page 315

## Magnets, smoke switch control units and further accessories for door closers

See page 307

## Operators for fire-rated doors

See from page 316

# Door closers and hold-open devices


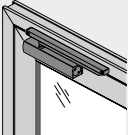
T30


T90

RS

For steel fire-rated doors

HL 320, HL 920 F as well as S/RS 200 and S/RS 200 S-Line

For fitting on the opposite hinge side  *  HL 320 and S/RS 200 only for the N-Line version			Overall frame dimension		Traffic leaf division dimensions		Fixed leaf division dimensions		Silver-coloured	Delivery programme	RAL colours / special colours	Delivery programme
	Min.	Max.	Min.	Max.	Min.	Max.						
GEZE – TS 5000												
<b>TS 5000 L-ISM</b> • Opening angle 119°	1448	2888	≥ 724	≤ 1444	≥ 500	≤ 1444	923	○	1074	○		
<b>TS 5000 L-E-ISM *</b> • Opening angle 119° • Hold-open angle 80 – 130° (both leaves)	1448	2888	≥ 724	≤ 1444	≥ 500	≤ 1444	1796	○	1947	○		
<b>TS 5000 L-R-ISM *</b> • Opening angle 119° • Hold-open angle 80 – 130° (both leaves)	1648	2888	≥ 724	≤ 1444	≥ 500	≤ 1444	2631	○	2782	○		
For anti-panic doors												
<b>TS 5000 L-ISM VPK</b> • Opening angle 119°	1388	2888	≥ 694	≤ 1444	≥ 500	≤ 1444	2597	○	2748	○		
<b>TS 5000 L-E-ISM VPK*</b> • Opening angle 119° • Hold-open angle 80 – 130° (both leaves)	1388	2888	≥ 694	≤ 1444	≥ 500	≤ 1444	3983	○	4134	○		
<b>TS 5000 L-R-ISM VP *</b> • Opening angle 119° • Hold-open angle 80 – 130° (both leaves)	1733	2888	≥ 949	≤ 1444	≥ 500	≤ 1444	4241	○	4392	○		

\*  Hold-open devices are not suitable for use with external doors

## Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- A trigger button is always required for compensator closers.

**Magnets, smoke switch control units and further accessories for door closers**

See page 307

**Operators for fire-rated doors**

See from page 316

# Door closers and hold-open devices

T30

RS

For steel fire-rated doors

HL 320 as well as S/RS 200 and S/RS 200 S-Line

Delivery programme	⚠ Not suitable for T90 HL 920 F!	Overall frame dimension		Traffic leaf division dimensions		Fixed leaf division dimensions		
		Min.	Max.	Min.	Max.	Min.	Max.	
Concealed door closer Dorma – ITS 96								Surcharge €
○	<b>ITS 96 G GSR</b> • Opening angle 120° • Leaf width 740–1100 mm • <i>Max. leaf weight 130 kg</i> ✓ Suitable for use with frame without face	≥ 1488	≤ 2288	≥ 744	≤ 1144	≥ 744	≤ 1144	1256
○	<b>ITS 96 G GSR</b> • Opening angle 120° • Leaf width 740–1400 mm • <i>Max. leaf weight 180 kg</i> ✓ Suitable for use with frame without face	≥ 1488	≤ 2888	≥ 744	≤ 1444	≥ 744	≤ 1444	1429
○	<b>ITS 96 G GSR EMF *</b> • Opening angle 120° • Hold-open angle 80°–120° (both leaves) • Leaf width 740–1100 mm • <i>Max. leaf weight 130 kg</i>	≥ 1488	≤ 2288	≥ 744	≤ 1144	≥ 744	≤ 1144	2445
○	<b>ITS 96 G GSR EMF *</b> • Opening angle 120° • Hold-open angle 80°–120° (both leaves) • Leaf width 740–1400 mm • <i>Max. leaf weight 180 kg</i>	≥ 1488	≤ 2888	≥ 744	≤ 1444	≥ 744	≤ 1444	2623

\* ⚠ Hold-open devices are not suitable for use with external doors

## Notice:

- An additional smoke switch control unit must be taken into account for an integrated door closer with electromechanical hold-open device. Additional ceiling smoke detectors may be required depending on the situation on site. (See the directives for hold-open devices)
- Smoke switch control units must be fitted on the wall lintel for single and double-leaf doors without transom light
- A trigger button is always required for compensator closers.

**Magnets, smoke switch control units and further accessories for door closers**

See page 307

**Operators for fire-rated doors**

See from page 316

# Operators HDO 200 / HDO 300

For steel fire-rated doors

T30

T90

RS

For single-leaf and double-leaf doors

For general notes on using and equipping door closers and hinged leaf operators

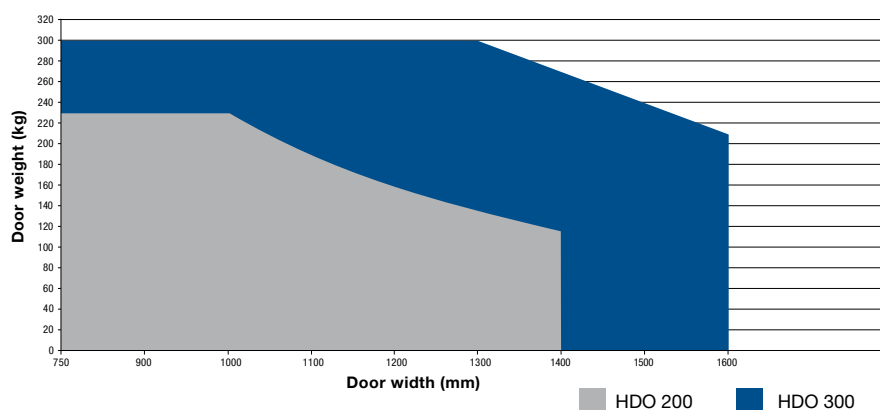
See page 223

## Product description

Automatic hinged leaf operators (type-tested in accordance with DIN 18650) without electric installation, in EV1 surface finish

### Scope of delivery:

- Operators and control elements separate in accessory pack
  - Mounting plate(s)
  - Electric strike and latch contact fitted in the door
  - Wiring prepared in the door for on-site connection
- A 50 mm extension profile is required for fitting hinged leaf operators to doors without a transom light for the pushing version (opposite hinge side) and two 50 mm extension profiles for the pulling version (hinge side)!
- For risk assessment in accordance with the appendix to the Machinery Directive and by reference to DIN 18650 / DIN EN 16005, you will need a detailed description of the on-site conditions near the door
- The version with hinged leaf operators requires a third hinge per leaf at the top, which must be taken into consideration in the calculation for T30 doors!



	HDO 200	HDO 300
Width	650 mm	720 mm
Height	70 mm	70 mm
Depth	121 mm	130 mm
Weight	9 kg	11 kg
Max. power input	0.15 kW	0.15 kW
Standby approx.	1 watt	1 watt
Door width	750 – 1400 mm	800 – 1600 mm
Door weight	Up to 200 kg	Up to 300 kg for 1400 mm door width Up to 210 kg for 1600 mm door width



	Operator fitting side	Surcharge €
<b>Hörmann hinged leaf operator for single-leaf doors in EV1</b>		
<b>HDO 200</b>		
<b>HDO 200 F/R in EV 1, pushing with linkage, integrated smoke sensor and 26 mm pin extension</b> Including 1 mounting plate and Flatscan silver (black) safety sensor	Opposite hinge side	<b>6620</b>
<b>HDO 200 F/R in EV 1, pulling with roller track, integrated smoke sensor and 26 mm pin extension</b> Including 1 mounting plate and Flatscan silver (black) safety sensor	Hinge side	<b>6477</b>
<b>HDO 300</b>		
<b>HDO 300 F/R in EV 1, pushing with linkage, integrated smoke sensor and 30 mm pin extension</b> Including 1 mounting plate and Flatscan silver (black) safety sensor	Opposite hinge side	<b>7843</b>
<b>HDO 300 F/R in EV 1, pulling with roller track, integrated smoke sensor and 30 mm pin extension</b> Including 1 mounting plate and Flatscan silver (black) safety sensor	Hinge side	<b>7741</b>
<b>Required accessories for single-leaf doors for HDO 200 and HDO 300</b>		<b>Surcharge €</b>
• 1x electric strike I.S.T., FT 503 FB, 24 V AC/DC, adjustable with feedback		<b>567</b>
• 1 x latch switching contact, Link, 100 13 31, VDS class C, cable length 10 m		<b>102</b>
• 1 Hörmann push button HAT 02		<b>69</b>
<b>Optional accessories for single-leaf doors for HDO 200 and HDO 300</b>		<b>Surcharge €</b>
1x opening limiter	Each	<b>76</b>
<b>Operators in RAL to choose</b>		<b>Surcharge €</b>
RAL to choose	Linkage	Surcharge per operator <b>377</b>
	Slide rail	Surcharge per operator <b>436</b>



	Operator fitting side	Surcharge €
<b>Hörmann hinged leaf operator for double-leaf doors in EV1</b>		
<b>HDO 200</b>		
<b>HDO 200 F/R in EV 1, pushing with linkage, integrated smoke sensor and 2 x 26 mm pin extension</b> Including 2 mounting plates and Flatscan silver (black) safety sensor and 3-part cover	Opposite hinge side	<b>13722</b>
<b>HDO 200 F/R in EV 1, pulling with roller track, integrated smoke sensor and 2x26 mm pin extension</b> Including 2 mounting plates and Flatscan silver (black) safety sensor and 3-part cover	Hinge side	<b>13436</b>
<b>HDO 300</b>		
<b>HDO 300 F/R in EV 1, pushing with linkage, integrated smoke sensor and 2x26 mm pin extension</b> Including 2 mounting plates and Flatscan silver (black) safety sensor and 3-part cover	Opposite hinge side	<b>15721</b>
<b>HDO 300 F/R in EV 1, pulling with roller track, integrated smoke sensor and 2x26 mm pin extension</b> Including 2 mounting plates and Flatscan silver (black) safety sensor and 3-part cover	Hinge side	<b>15517</b>
<b>Required accessories for double-leaf doors for HDO 200 and HDO 300</b>		<b>Surcharge €</b>
• 1x electric strike I.S.T., FT 503 FB, 24 V AC/DC, adjustable with feedback		<b>567</b>
• 1x electro duct 480		<b>200</b>
• 1 x latch switching contact, Link, 100 13 31, VDS class C, cable length 10 m		<b>102</b>
• 1 Hörmann push button HAT 02		<b>69</b>
• 1 x ECO dual locking		<b>40</b>
<b>Optional accessories for double-leaf doors for HDO 200 and HDO 300</b>		<b>Surcharge €</b>
1x opening limiter	Each	<b>76</b>
<b>Operators in RAL to choose</b>		<b>Surcharge €</b>
RAL to choose	Linkage	Surcharge per operator <b>377</b>
	Slide rail	Surcharge per operator <b>436</b>

# Operators HDO 200 / HDO 300

For aluminium fire-rated doors

For single-leaf and double-leaf doors

T30

T60

T90

RS

## General notes on using and equipping operators

See page 223

Package equipment complies with the valid standards for automatic hinged door operators DIN 18650 and EN 16005.  
A safety analysis according to the Machinery Directive 2006/42/EC and DIN 18650 must be carried out before initial start-up.

► State reveal depth on order!

### Hinged leaf operators HDO 200 / HDO 300

HDO 200 suitable for doors up to BR width 1250 mm

HDO 300 suitable for doors up to BR width 1500 mm

Min. headroom 150 mm

Linkage possible for reveal depth up to 100 mm, 200 mm and 300 mm

Max. wall width for frames = 330 mm

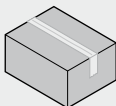
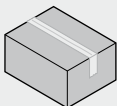
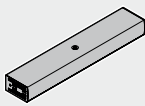
Max. door height for double-leaf doors: 2500 mm, H6 OD and H16 OD: 2250 mm

## Notes on versions and operator packages

Hörmann hinged leaf operators are available either as precisely defined packages including specified peripheral devices or individually as an operator with individual accessory options.

### Please note:

Electrical add-on parts such as electric strike and latch contact must be added to the package price.

Operator package HDO "Economy"	Operator package HDO "Protect"	Operator HDO individual (equipment to choose) + individual accessories
		
<b>Application:</b> The simple solution for barrier-free passages, including precisely defined standard accessories.	<b>Application:</b> The convenient solution for particularly stringent hygienic requirements, including precisely defined standard accessories as well as non-contact switching elements.	<b>Application:</b> The individual solution for particularly stringent quality requirements in construction projects.
<b>Your advantage:</b> Price saving compared to individual purchase	<b>Your advantage:</b> Price saving compared to individual purchase	<b>Your advantage:</b> Flexible design options thanks to a large selection of individual accessories





## Hörmann hinged leaf operators

	HDO 200 HDO 200 IS	HDO 200 F/R HDO 200 F/R IS	HDO 300 HDO 300 IS	HDO 300 F/R HDO 300 F/R IS
<b>Suitable for:</b>				
Fire-rated doors		●		●
Smoke-tight doors		●		●
Multi-purpose doors	●	●	●	●
<b>Technical features</b>				
Operator type	Electromechanical	Electromechanical	Electromechanical	Electromechanical
Integrated smoke sensor control		●		●
Dimensions	650 x 70 x 121 mm	650 x 70 x 121 mm	720 x 70 x 130 mm	720 x 70 x 130 mm
Connecting voltage	100 – 240 V AC	100 – 240 V AC	100 – 240 V AC	100 – 240 V AC
Control delay (max.)	20 seconds	20 seconds	20 seconds	20 seconds
Weight	9.0 kg	9.0 kg	11.7 kg	11.7 kg
Energy supply for external consumers	24 V DC, 1200 mA	24 V DC, 1200 mA	24 V DC, 1200 mA	24 V DC, 1200 mA
Operating temperature	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C
Protection category (for dry rooms only)	IP20	IP20	IP30	IP30
Push & Go	Adjustable	Adjustable	Adjustable	Adjustable
Mains isolator	Plug-in cable connection	Plug-in cable connection	Main switch in the operator	Main switch in the operator
Automatic function	●	●	●	●
Low-energy function	●	●	●	●
Servo function	●	●	●	●


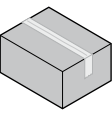
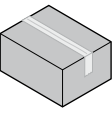

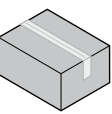
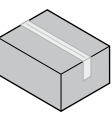
## Fitting dimensions to be observed

Operator version		Fitting side	Width (BRM)		Leaf width	
			Min.	Max.	Min.	Max.
For single-leaf doors or on traffic leaf						
HDO 200	Lintel fitting	Pushing on the closing side	855	1250		
		Pulling on the opening side	900	1250		
HDO 200 F/R	Lintel fitting	Pushing on the closing side	955	1250		
		Pulling on the opening side	900	1250		
HDO 300	Lintel fitting	Pushing on the closing side	890	1500		
		Pulling on the opening side	880	1400		
HDO 300 F/R	Lintel fitting	Pushing on the closing side	890	1500		
		Pulling on the opening side	850	1400		
For double-leaf doors						
HDO 200 IS	Lintel fitting	Pushing on the closing side	1700	2500	850	1250
		Pulling on the opening side	1800	2500	900	1250
HDO 200 F/R IS	Lintel fitting	Pushing on the closing side	1700	2500	850	1250
		Pulling on the opening side	1800	2500	900	1250
HDO 300 IS	Lintel fitting	Pushing on the closing side	1700	3000	800	1500
		Pulling on the opening side	1800	2800	900	1400
HDO 300 F/R IS	Lintel fitting	Pushing on the closing side	1700	2500	800	1500
		Pulling on the opening side	1800	2500	900	1400

# Hinged leaf operators HDO 200, HDO 300

## Operator packages

### For single-leaf and double-leaf fire-rated and smoke-tight doors

Operator packages for single-leaf multi-purpose doors		Package price incl. preparation €	
		HDO 200	HDO 300
<b>Package Economy</b>  	<b>Total price of package incl. basic equipment</b>	<b>6259</b>	<b>7487</b>
	<b>Operator package consisting of:</b> <ul style="list-style-type: none"> <li>Operator HDO, incl. preparation with linkage or slide rail, including: <ul style="list-style-type: none"> <li>2 x Flatscan safety sensor, silver (1 x for the opening side, 1 x for the closing side)</li> <li>"Close door" release button, white surface-mounted / recessed and 2 x "Open door" flat button, white, surface-mounted</li> </ul> </li> </ul>	<b>5646</b>	<b>6873</b>
	<b>Required basic equipment:</b> <ul style="list-style-type: none"> <li>Electric strike, working current principle, 12–24 V DC, 100 % on-time, with additional module for conversion to 1-phase current</li> <li>Latch contact, VDS class C</li> </ul>	<b>464</b>	<b>464</b>
		<b>150</b>	<b>150</b>
<b>Package Protect</b>  	<b>Total price of package incl. basic equipment</b>	<b>6560</b>	<b>7788</b>
	<b>Operator package consisting of:</b> <ul style="list-style-type: none"> <li>Operator HDO, incl. preparation with linkage or slide rail, including: <ul style="list-style-type: none"> <li>2 x Flatscan safety sensor, silver (1 x for the opening side, 1 x for the closing side)</li> <li>"Close door" release button, white, surface-mounted / recessed, and 2 x "Open door" flat button, white, surface-mounted.</li> <li>Switching element, non-contact FSR1 BS with receiver HET-E1 868-BS</li> </ul> </li> </ul>	<b>5947</b>	<b>7174</b>
	<b>Required basic equipment:</b> <ul style="list-style-type: none"> <li>Electric strike, working current principle, 12–24 V DC, 100 % on-time, with additional module for conversion to 1-phase current</li> <li>Latch contact, VDS class C</li> </ul>	<b>464</b>	<b>464</b>
		<b>150</b>	<b>150</b>
Operator packages for double-leaf multi-purpose doors		Package price incl. preparation €	
		HDO 200 IS	HDO 300 IS
<b>Package Economy</b>  	<b>Total price of package incl. basic equipment</b>	<b>14433</b>	<b>16539</b>
	<b>Operator package consisting of:</b> <ul style="list-style-type: none"> <li>Operator HDO, incl. preparation with 3-part cover, with linkage or slide rail, silver-coloured surface finish, including: <ul style="list-style-type: none"> <li>4 x Flatscan safety sensor, silver (2 x for the opening side, 2 x for the closing side)</li> <li>"Close door" release button, white surface-mounted / recessed and 2 x "Open door" flat button, white, surface-mounted</li> </ul> </li> </ul>	<b>12346</b>	<b>14451</b>
	<b>Required basic equipment:</b> <ul style="list-style-type: none"> <li>Electric strike working current principle 12-24 V AC/DC, 100% on-time on the fixed leaf including tube and electro duct 370, with additional module for conversion to 1-phase current</li> <li>Electric strike, working current principle, 12–24 V DC, 100% on-time, on the locking rod</li> <li>Latch contact, VDS class C</li> <li>Rebate locking bolt</li> </ul>	<b>1061</b>	<b>1061</b>
		<b>464</b>	<b>464</b>
<b>Package Protect</b>  	<b>Total price of package incl. basic equipment</b>	<b>14916</b>	<b>17021</b>
	<b>Operator package consisting of:</b> <ul style="list-style-type: none"> <li>Operator HDO, incl. preparation with 3-part cover, with linkage or slide rail, silver-coloured surface finish, including: <ul style="list-style-type: none"> <li>4 x Flatscan safety sensor, silver (2 x for the opening side, 2 x for the closing side)</li> <li>Integrated smoke sensor control</li> <li>"Close door" release button, white surface-mounted / recessed and 2 x "Open door" flat button, white, surface-mounted</li> <li>2 x switching elements, non-contact FSR1 BS with 1 x receiver HET-E1 868-BS</li> </ul> </li> </ul>	<b>12828</b>	<b>14934</b>
	<b>Required basic equipment:</b> <ul style="list-style-type: none"> <li>Electric strike working current principle 12-24 V AC/DC, 100% on-time on the fixed leaf including tube and electro duct 370, with additional module for conversion to 1-phase current</li> <li>Electric strike, working current principle, 12–24 V DC, 100% on-time, on the locking rod</li> <li>Latch contact, VDS class C</li> <li>Rebate locking bolt</li> </ul>	<b>1061</b>	<b>1061</b>
		<b>464</b>	<b>464</b>
		<b>150</b>	<b>150</b>
		<b>413</b>	<b>413</b>

# Hinged leaf operators HDO 200, HDO 300

## Individual solutions

## For single-leaf and double-leaf fire-rated and smoke-tight doors



<b>Preparation for hinged leaf operators</b>		
Fitting on the opening side	Per leaf	53
Fitting on the closing side	Per leaf	105
<b>Operators with linkage or slide rail</b>		
HDO 200	For single-leaf doors	3919
HDO 300	For single-leaf doors	5396
HDO 200 IS with 3-part cover	For double-leaf doors	9245
HDO 300 IS with 3-part cover	For double-leaf doors	11520
<b>RAL to choose</b>		
Hinged leaf operator in version RAL to choose	Per operator	407
<b>Safety sensors for single-leaf doors (optional)</b>		
Flatscan, silver-coloured, for the opening and closing side to safeguard the door including secondary closing edge	2 × for single-leaf doors	2505
	4 × for double-leaf doors	5010
Flatscan, black, for the opening and closing side to safeguard the door including secondary closing edge	2 × for single-leaf doors	2505
	4 × for double-leaf doors	5010
Flatscan, white, for the opening and closing side to safeguard the door including secondary closing edge	2 × for single-leaf doors	2505
	4 × for double-leaf doors	5010
Sensor strip GC 338	Length 1200 mm	Price per side 1472
Sensor strip GC 338	Length 1500 mm	Price per side 2087
<b>Control elements</b>		
"Close door" release button, white / red		73
Flat button, surface-mounted, with "Open door" symbol, white		131
Flat button, surface-mounted, with "Open door" symbol, silver-coloured		113
Flat button, surface-mounted, with "Open door" symbol, stainless steel-coloured		347
Radio radar button (non-contact) FSR1 868-BS, white	Per side	185
Receiver HET-E1 868-BS		126
Note: Additional control elements as well as code buttons and radio buttons available on request		
<b>Smoke detector</b>		
Smoke detector type ORS 142 with fitting base 143 A for fitting to ceiling		308
<b>Finger protection</b>		
Finger protection roller for fitting on the closing surface, housing colour natural aluminium finish, length 1925 mm		
Further lengths on request	Each	355
Not mandatory when using a Flatscan safety sensor		
Finger protection profile, aluminium, for fitting on the opening side, housing colour aluminium 1	Per leaf	413
<b>Closing control (latch contact, VDS-approved, class C)</b>		
Latch contact, VDS-approved, class C		150
<b>Electric door strike – for single-leaf multi-purpose doors</b>		
Direct current (DC) including an additional module for conversion to 1-phase current (AC)		
Electric strike 24 V DC, 100% on-time	For single-leaf doors	464
Electric strike 24 V DC, 100 % on-time, with signalling contact	For single-leaf doors	581
Electric strike 24 V DC, 100% on-time incl. electro duct 370 and tube for fixed leaf	For double-leaf doors	1061
Electric strike 24 V DC, 100% on-time for top locking rod	For double-leaf doors	464
Electric strike 12 – 24 V DC, 100% on-time incl. electro duct 370 and tube for fixed leaf	For double-leaf doors	1178
Electric strike 12 – 24 V DC, 100% on-time for top locking rod, with signalling contact	For double-leaf doors	581
<b>Locking of fixed leaf</b>		
Espagnolette lock in rebate		413

## For single-leaf and double-leaf doors

General notes on using and equipping door closers

See page 223

### Product description

Automatic hinged leaf operators (type-tested in accordance with DIN 18650) without electric installation, pushing, in EV1 surface finish

#### Scope of delivery:

- Operators and control elements separate in accessory pack
- Mounting plate(s) (not required for ED 250)
- Electric strike and latch contact fitted in the door
- Wiring prepared in the door for on-site connection

► **A 50 mm extension profile is required for fitting hinged leaf operators to doors without a transom light!**

► **For risk assessment in accordance with the appendix to the Machinery Directive and by reference to DIN 18650 / DIN EN 16005, you will need a detailed description of the on-site conditions near the door**

► **The version with hinged leaf operators requires a third hinge per leaf at the top, which must be taken into consideration in the calculation for T30 doors!**



Operator fitting side	Width (RAM)		Surcharge €
	Min.	Max.	

### Dorma hinged leaf operator for single-leaf doors

#### ED 250, pushing with standard linkage EV 1, including pin extension 30 mm

• 1 x ED fire protection upgrade card 250	Opposite hinge side	788	1488	4880
• ED cladding BASIC RM (integrated smoke detector)				831
• 1x electric strike I.S.T., FT 503 FB, 24 V AC/DC, adjustable with feedback				1255
• 1 x latch switching contact, Link, 100 13 31, VDS class C, cable length 10 m				603
• Hörmann push button HAT 02				108
				73



Operator fitting side	Width (RAM)		Division dimensions (RAM)	Surcharge €
	Min.	Max.	Min.–max.	

### Dorma hinged leaf operator for double-leaf doors

#### ED 250, pushing with standard linkage EV 1, including pin extension 30 mm

• 2 x ED fire protection upgrade card 250	Opposite hinge side	1538	2888	Min.: ≥ 788 Max.: ≤ 1488	10787
• ED professional cladding (continuous)					1663
• Integrated mechanical door leaf selector (ED ESR set)					1753
• 1x electric strike I.S.T., FT 503 FB, 24 V AC/DC, adjustable with feedback					1025
• 1 x latch switching contact, Link, 100 13 31, VDS class C, cable length 10 m					603
• Hörmann push button HAT 02					108
• 1x smoke sensor control, Dorma RM-ED					73
• 1 x electro duct 480					620
• 1 x ECO dual locking					213
					43

### Operator accessories

	Surcharge €
Operator in RAL to choose	Per operator 568
Upgrade card DCW (required for use with SVP locks)	Per set 364
Package price for preparation for single-leaf operator, incl. electric strike and latch switching contact	1640
Package price for preparation for double-leaf operator, incl. electric strike, latch switching contact, electro duct 480 and ECO dual locking	2456

# Actuation elements and safety equipment

For Dorma hinged leaf operators



Control elements (optional)				€ each
1	Radar movement detector with directional recognition, Prosecure OptiMotion Stereo, black / white / silver			542
2	Weather protective cover / ceiling bracket, black, for Prosecure OptiMotion Stereo			118
3	Remote control for Prosecure OptiMotion Stereo			412
4	Hörmann push button HAT 02			73
5	Hand button HT, recessed, one-pole, <i>Close door</i> white/red			81
6	Hand button HT, surface-mounted, one-pole, <i>Close door</i> , white/red, surface-mounted box not included			81
7	Hand button, recessed, white			79
8	Key switch KT3-1 with half cylinder, recessed			104
9	Key switch KT3-1 with half cylinder, surface-mounted, surface-mounted box not included			104
10	Large flat button, recessed, stainless steel look with rocker switch without label			195
11	Large flat button, recessed, stainless steel look with rocker switch with <i>Open</i> label			215
12	Large flat button, surface-mounted, stainless steel look with rocker switch without label			255
13	Large flat button, surface-mounted, stainless steel look with rocker switch with <i>Open</i> label			269
14	Elbow button, surface-mounted, grey plastic			244
15	Elbow button, recessed, silver aluminium			408
16	Elbow button, surface-mounted, silver aluminium			408
17	Surface-mounted box for surface-mounted button			54
Safety equipment (optional)				€ each
Prosecure OptiSafe				
18	1 × Prosecure OptiSafe 700 mm	With 1 <i>silver</i> sensor module for fitting on the opposite hinge side	Package	2103
		With 1 <i>silver</i> sensor module and black linkage adapter for fitting on the hinge side		
		With 1 <i>black or white</i> sensor module for fitting on the opposite hinge side	Package	2186
		With 1 <i>black or white</i> sensor module and black linkage adapter for fitting on the hinge side		
19	1 × Prosecure OptiSafe 900 mm	With 1 <i>special colour</i> sensor module for fitting on the opposite hinge side	Package	2299
		With 1 <i>special colour</i> sensor module and black linkage adapter for fitting on the hinge side		
		With 1 <i>silver</i> sensor module for fitting on the opposite hinge side	Package	2186
		With 1 <i>silver</i> sensor module and black linkage adapter for fitting on the hinge side		
20	1 × Prosecure OptiSafe 1200 mm	With 1 <i>black or white</i> sensor module for fitting on the opposite hinge side	Package	2271
		With 1 <i>black or white</i> sensor module and black linkage adapter for fitting on the hinge side		
		With 1 <i>special colour</i> sensor module for fitting on the opposite hinge side	Package	2410
		With 1 <i>special colour</i> sensor module and black linkage adapter for fitting on the hinge side		
21	1 × Prosecure OptiSafe 1600 mm	With 1 <i>silver</i> sensor module for fitting on the opposite hinge side	Package	2271
		With 1 <i>silver</i> sensor module and black linkage adapter for fitting on the hinge side		
		With 1 <i>black or white</i> sensor module for fitting on the opposite hinge side	Package	2355
		With 1 <i>black or white</i> sensor module and black linkage adapter for fitting on the hinge side		
22	1 × Prosecure OptiSafe 1600 mm	With 1 <i>special colour</i> sensor module for fitting on the opposite hinge side	Package	2495
		With 1 <i>special colour</i> sensor module and black linkage adapter for fitting on the hinge side		
		With 2 <i>silver</i> sensor modules for fitting on the opposite hinge side	Package	3505
		With 2 <i>silver</i> sensor modules and black linkage adapter for fitting on the hinge side		
23	1 × Prosecure OptiSafe 1600 mm	With 2 <i>black or white</i> sensor modules for fitting on the opposite hinge side	Package	3589
		With 2 <i>black or white</i> sensor modules and black linkage adapter for fitting on the hinge side		
		With 2 <i>special colour</i> sensor modules for fitting on the opposite hinge side	Package	3757
		With 2 <i>special colour</i> sensor modules and black linkage adapter for fitting on the hinge side		
Accessories for Prosecure OptiSafe				€ each
22	Prosecure OptiSafe weather protective cover 1200 mm, transparent			132
23	Prosecure OptiSafe weather protective cover 1600 mm, transparent			170
24	Prosecure OptiSafe slave adapter			106
Flatscan safety sensor				€ per set
25	Flatscan silver (black) safety sensor, opening and closing side for door safeguarding including secondary closing edge			2505

# Actuation elements and safety equipment

## For Dorma hinged leaf operators

## For single-leaf and double-leaf T30 and T90 doors

Finger trap protection on one side, for inside use			€
For automatic doors acc. to EN 16005, a minimum length of 2015 mm (opposite hinge side) is required. The maximum delivery length is 2500 mm.			No. 32
26	Finger trap protection, anodised silver, cloth in black	Each	586
27	Finger trap protection, RAL 9016, RAL 7016 or anodised stainless steel, cloth in black	Each	666
28	Finger trap protection, RAL 3020, RAL 6005, RAL 7030 and RAL 9006 Cloth in black	Each	727
29	Finger trap protection, anodised silver, cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Each	634
30	Finger trap protection, RAL 9016, RAL 7016 or anodised stainless steel, cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Each	714
31	Finger trap protection, RAL 3020, RAL 6005, RAL 7030 and RAL 9006 cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Each	775
32	Finger trap protection, anodised silver, cloth in black	Per metre	337
33	Finger trap protection, RAL 9016, RAL 7016 or anodised stainless steel, cloth in black	Per metre	377
34	Finger trap protection, RAL 3020, RAL 6005, RAL 7030 and RAL 9006, cloth in black	Per metre	436
35	Finger trap protection, anodised silver, cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Per metre	361
36	Finger trap protection, RAL 9016, RAL 7016 or anodised stainless steel, cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Per metre	400
37	Finger trap protection, RAL 3020, RAL 6005, RAL 7030 and RAL 9006 cloth in yellow / black, bordeaux / black, blue / black, green / black, white / black	Per metre	461

► Not mandatory when using a Flatscan safety sensor

### Finger trap protection for doors without operator

See page 299

# Good reasons to try Hörmann aluminium tubular frame construction project doors



Up to  
**55** mm  
wider clear  
passage width

Elegant door view without visible frame face

## Frame without face

\* compared to door version with fascia frame

# HÖRMANN

# Hold-open devices with door magnets

For steel fire-rated and smoke-tight doors

T30

T60

T90

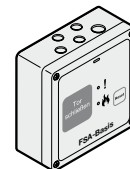
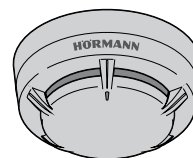
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⚠ Depending on local requirements, more than 1 smoke detector may be necessary. Please order these additionally.

## Hold-open devices with magnets

### Components for a hold-open device with magnet:

- Door magnet for wall or floor fitting (per leaf for double-leaf doors), with counterplate
- 1× smoke detector type H-RM 4070 with dust protection cap and fitting base H-RM with support bracket for fitting to lintel
- Hold-open device control unit FSA Basis (transformer incl. push button)



### Magnets for DORMA smoke switch control units

Magnets for Door Fitting Unit					
Item	Article	Magnet unit price		Smoke detector H-RM 4070 (lintel fitting)	Hold-open device control unit FSA Basis *
		Stainless steel design	White		
Door magnet for floor fitting					
1	With standard counterplate	475	394	312	287
2	With angle adjustment counterplate	544	463		
3	With telescopic counterplate	676	596		
Surface-mounted door magnet for wall fitting					
4	With standard counterplate	391	312	312	287
5	With angle adjustment counterplate	462	381		
6	With telescopic counterplate	594	513		

### Magnets for GEZE smoke switch control units

Magnets for 222V smoke switch control units				
Item	Article	Magnet unit price	Smoke detector H-RM 4070 (lintel fitting)	Hold-open device control unit FSA Basis *
Door magnet for floor fitting				
7	With standard counterplate	345	312	287
Surface-mounted door magnet for wall fitting				
8	With standard counterplate	217	293	287
9	With post extension 185 mm	340		
10	With post extension 335 mm	572		
11	With post extension 485 mm	593		

\* Includes transformer and push button

### Recessed junction box for hold-open device control FSA Basis

#### Notice:

Suitable for fitting in partition walls with plaster cladding

Each

97



# Good reasons to try Hörmann steel tubular frame construction project doors

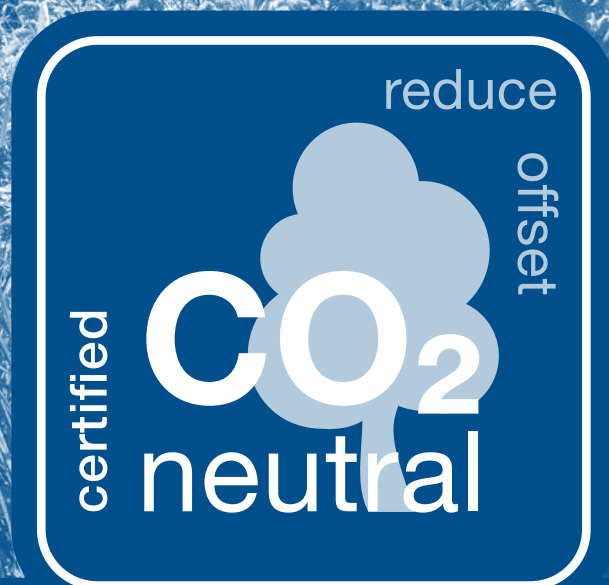


Particularly narrow door view

## **S-Line system**

**HÖRMANN**

# Good reasons to try Hörmann residential internal doors



Certified by ClimatePartner

**As standard with all  
steel loft doors**

**HÖRMANN**

# Steel loft doors / steel loft sliding doors

Single-leaf and double-leaf doors

## Contents



Steel loft doors		From page
	Product description	330
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Loft doors	LFT 01 Slim	Single-leaf 334
	LFT 02 Slim	Double-leaf 335
	LVFG-OL	Transom light 336
	LVFG-ST	Side elements 339
Steel loft sliding doors		From page
	Product description	340
	Technical drawings	341
Loft sliding doors	LFST 01 Slim	Single-leaf 342
	LFST 02 Slim	Double-leaf 343
Fittings and further optional extras		From page 344

### General order information

- All door assemblies are made to order.
- Doors and side element or transom light combinations are designed as a coupling construction and open inwards as standard (glazing beads on the hinge side). Please note any surcharges.
- The ordering size is always the overall frame dimension (RAM).
- The prices indicated in this price list are generally surcharges and are only valid in conjunction with a door order.
- The glass is supplied separate as standard but optional fitting of the infill in the leaf at the factory is possible at a surcharge. An additional delivery time of 1 week must be taken into account in this case.

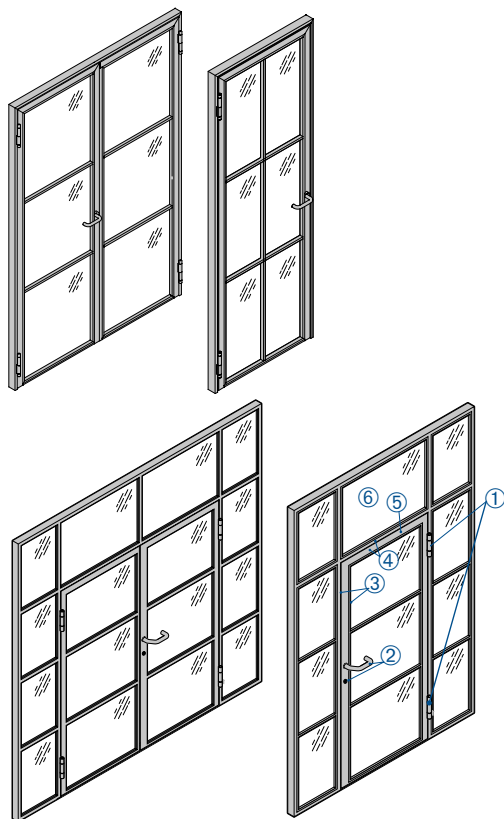
# Steel loft doors

## Single-leaf and double-leaf doors



## Product description

### Product description



### Modern, exclusive loft doors (single and double-leaf) with and without side elements / steel transom lights.

Each door assembly will be individually manufactured according to measurements.

#### ① Hinges

- 2 sturdy guide rollers, three-way adjustable (standard)
- Stainless steel guide rollers (optional)

#### ② Fittings

- Tubular frame mortice lock (without profile cylinder)
- 10 different lever handle sets to choose from (standard)
- Profile cylinder and cylinder preparation (optional)

#### ③ Seals

- EPDM door seal, 3-sided
- Glass hinge seal

#### ④ Design

- Galvanized steel tubular frame profiles, powder-coated in RAL 9005 Jet black (standard) or in preferred colours, RAL to choose or special colours (optional)

#### ⑤ Visible surfaces

- Flush-fitting
- Viewed width (frame and leaf) 76 mm
- Viewed width (fixed glazing) 20 mm
- Bottom section height 20 mm
- Depth 60 mm

#### ⑥ Glazing

- Laminated safety glass 6 mm (standard)
- Weight with standard glazing approx. 30 kg/m<sup>2</sup>
- Slim glazing bead on hinge side and opposite hinge side (standard)
- Angled glazing bead on hinge side and opposite hinge side (optional)

### Size range (overall frame dimensions)

#### Single-leaf loft door (LFT 01 Slim)

- RAM (W × H) min. 650 × 1900 mm
- RAM (W × H) max. 1500 × 3000 mm

#### Double-leaf loft door (LFT 02 Slim)

- RAM (W × H) min. 1250 × 1900 mm
- RAM (W × H) max. 2500 × 3000 mm

#### Transom light (LFVG-OL)

- RAM (W × H) min. 300 × 300 mm
- RAM (W × H) max. 5000 × 1000 mm

#### Side element (LFVG-ST)

- RAM (W × H) min. 300 × 1900 mm
- RAM (W × H) max. 1250 × 3000 mm

### Surface coating

Powder coating, both sides

- **Standard colour:** RAL 9005 Jet black
- **Preferred colours:**

RAL 7016 Anthracite grey  
RAL 9006 White aluminium  
RAL 9007 Grey aluminium  
RAL 9016 Traffic white  
CH 703 Anthracite metallic

- **RAL to choose:** KABE palette
- **Special colours:** NCS, textured and pearl-effect colours

#### Gloss levels:

- Matt as standard (gloss level 35 ± 5)
- Special gloss levels (gloss level 75 ± 10) or high-gloss (gloss level > approx. 85, gloss points according to ISO 2813, 60 degree measuring angle) are available to order.

### Glazing

- **Laminated safety glass:**
  - Laminated safety glass 6 mm (standard)
  - Laminated safety glass 6 mm with matt plastic film (optional)
- **Glazing beads:** (on hinge side and opposite hinge side)
  - Standard: slim glazing bead (also as rails)
  - Optional: angled glazing bead
- **Acoustic value with 6 mm laminated safety glass Standard:**
  - Single-leaf door  $R_w = 28$  (-1, -2) dB
  - Double-leaf door  $R_w = 28$  (0, -2) dB
  - Fixed glazing  $R_w = 29$  (-1, -2) dB
- **Acoustic value with 8 mm laminated safety glass (44.2 ST) Glass:**
  - Single-leaf door  $R_w = 30$  (-1, -2) dB
  - Double-leaf door  $R_w = 27$  (-1, -2) dB
  - Fixed glazing  $R_w = 33$  (-1, -2) dB

### Fittings

- **Lock:** mortice lock
- **Lever handle:** lever height 1050 mm (without rose escutcheon as standard)
  - Standard: RAL 9005 Jet black
  - Optional: in stainless steel
- **Hinges:** 3-way weld-on guide rollers
  - Standard: in door colour
  - Optional: in stainless steel
- **Locking of fixed leaf:** (for double-leaf loft doors):
  - Standard: to top
  - Optional: to bottom

### Special profiles

- **Extension profiles** (max. 3 units per side): viewed width 30 mm or 50 mm
- **Corner profiles:** 90°

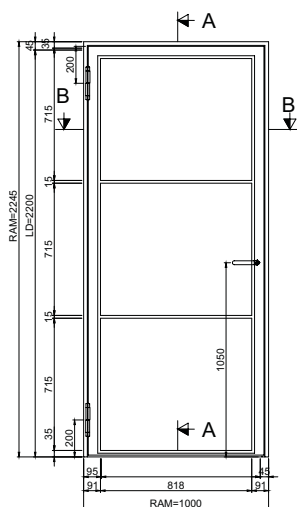


## Single-leaf and double-leaf doors

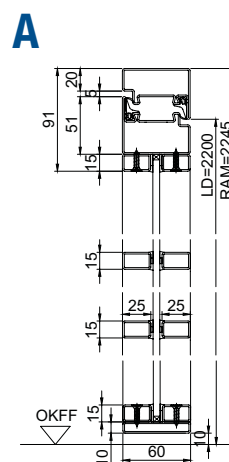


## Technical drawings

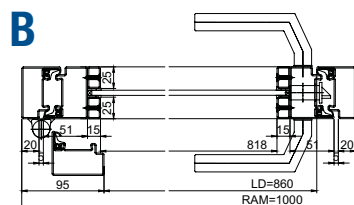
### Single-leaf door view



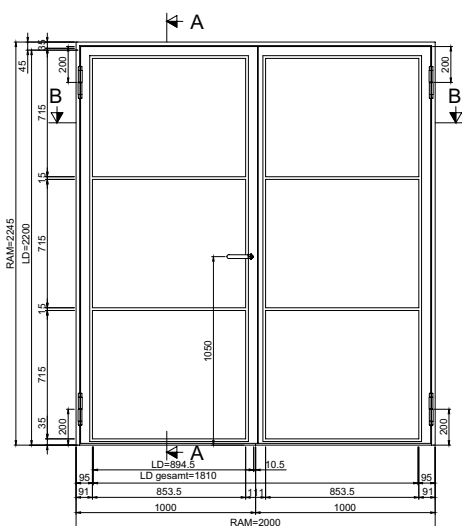
### Vertical view



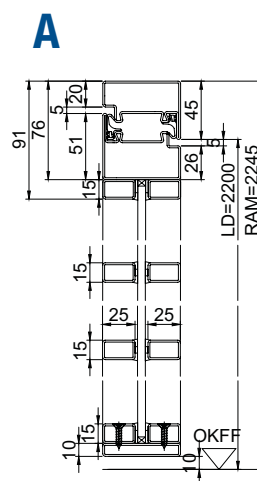
### Horizontal view



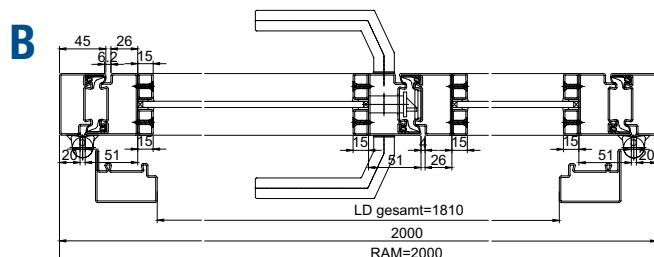
### Double-leaf door view



### Vertical view



### Horizontal view



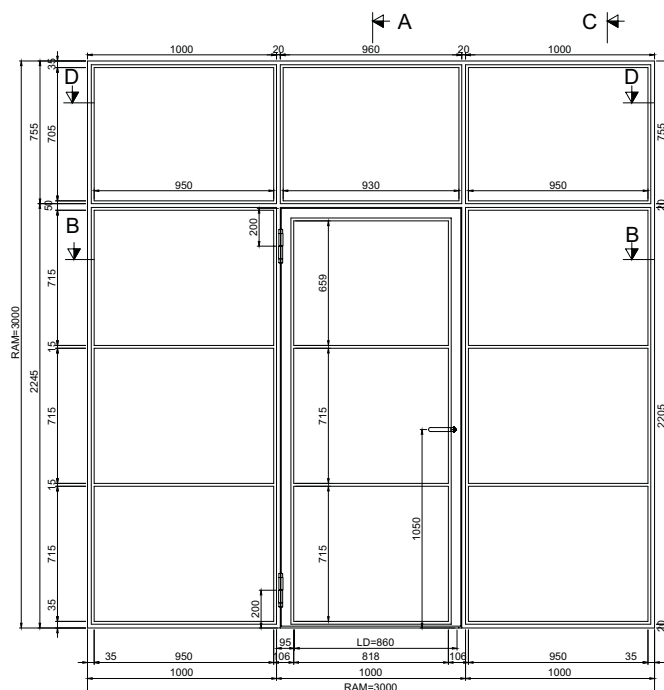
<b>LD</b>	Clear passage dimension
<b>LD GF</b>	Traffic leaf clear passage dimension
<b>LD SF</b>	Fixed leaf clear passage dimension
<b>RAMB</b>	Overall frame width
<b>RAMH</b>	Overall frame height

# Technical drawings

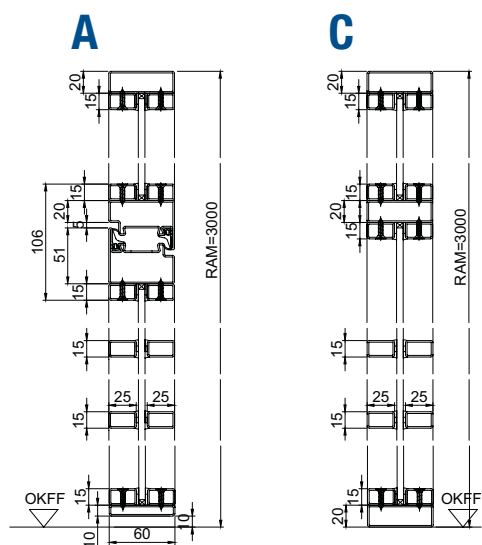
## Single-leaf door – with side element and transom light



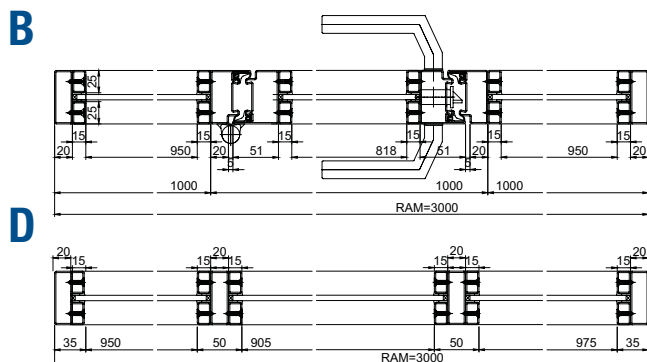
View of single-leaf door with side element and transom light



Vertical view



Horizontal view



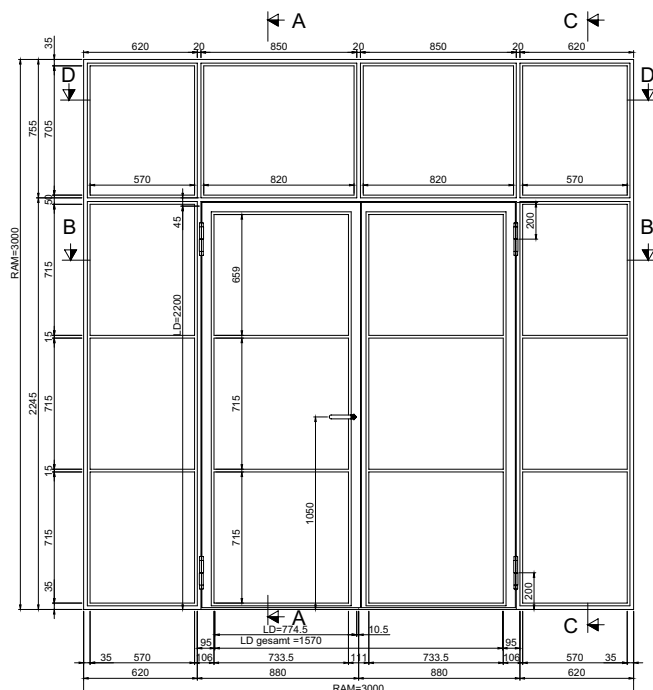
- LD** Clear passage dimension
- LD GF** Traffic leaf clear passage dimension
- LD SF** Fixed leaf clear passage dimension
- RAMB** Overall frame width
- RAMH** Overall frame height

# Technical drawings

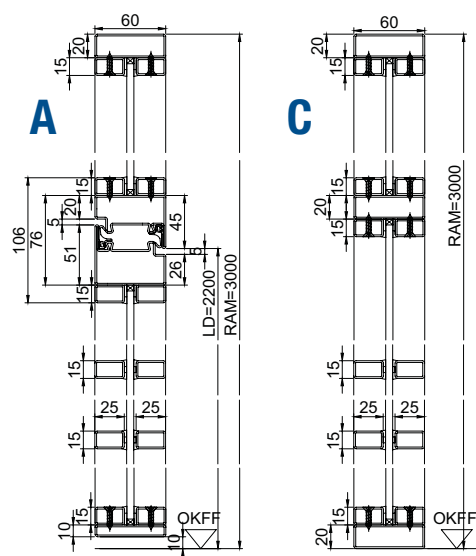
## Double-leaf door – with side element and transom light



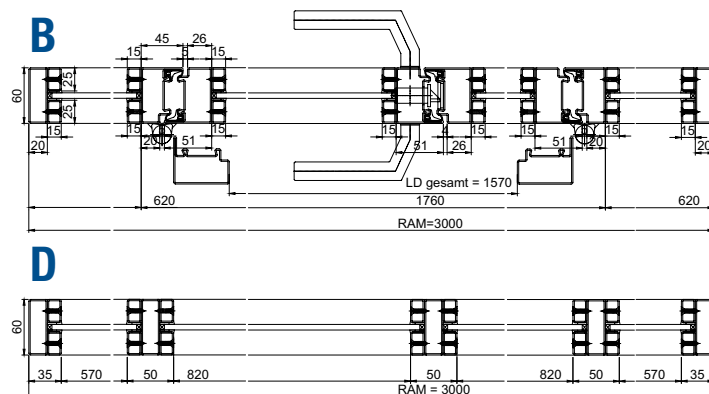
View of double-leaf door with side element and transom light



Vertical view



Horizontal view



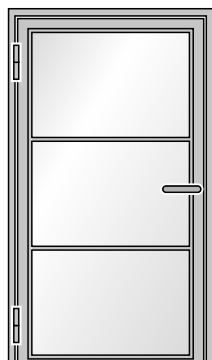
- LD** Clear passage dimension
- LD GF** Traffic leaf clear passage dimension
- LD SF** Fixed leaf clear passage dimension
- RAMB** Overall frame width
- RAMH** Overall frame height

# Steel loft doors

## Single-leaf loft door LFT 01 Slim



Product name	<b>Single-leaf loft door</b>
	<b>LFT 01 Slim</b>
Depth [mm]	60
RAM width (min – max) [mm]	650 – 1500
RAM height (min – max) [mm]	1900 – 3000
Construction sector	<b>Residential construction / residential internal door</b>



### Door set price =

frame / leaf incl. glass  
Fittings and other optional extras

### Already included in the price:

- 1 x mortice lock
- 2 x 3-way weld-on guide rollers in door colour
- 1 x lever handle set (standard), without profile cylinder and profile cylinder milling
- Laminated safety glass glazing 6 mm
- Slim glazing bead on hinge side and opposite hinge side (standard)

► State opening sense on order!

\* Fittings in preferred colours, RAL to choose or special colours, in RAL 9005 Jet black as standard.

### Single-leaf loft door LFT 01 Slim

Ordering sizes (RAM) up to width x up to height			Single-leaf loft door LFT 01 Slim RAL 9005 Jet black	Surface coating * Surcharge		
				Preferred colour	RAL to choose	Special colour NCS / textured
750	x	2000	<b>2286</b>	146	190	284
		2250	<b>2377</b>	150	195	293
		2500	<b>2469</b>	157	205	307
		2750	<b>2561</b>	165	214	321
		3000	<b>2652</b>	167	217	325
1000	x	2000	<b>2481</b>	149	194	291
		2250	<b>2592</b>	157	205	307
		2500	<b>2704</b>	166	215	323
		2750	<b>2816</b>	169	219	329
		3000	<b>2927</b>	174	227	340
1250	x	2000	<b>2676</b>	162	210	315
		2250	<b>2807</b>	169	219	329
		2500	<b>2939</b>	174	227	340
		2750	<b>3070</b>	179	233	349
		3000	<b>3202</b>	189	246	368
1500	x	2000	<b>2871</b>	167	217	325
		2250	<b>3022</b>	172	223	336
		2500	<b>3174</b>	179	233	349
		2750	<b>3325</b>	187	242	364
		3000	<b>3476</b>	194	253	379

Number of rails			
Ordering sizes Width	Max. number Vertical rails	Ordering sizes Height	Max. number Horizontal rails
750 – 899	1	2000 – 2299	4
900 – 1249	2	2300 – 2699	5
1250 – 1500	3	2700 – 3000	6

Fittings / additional functions			€
Rails:	Each	Horizontal	150
		Vertical	187
			€
Extension profiles:	(max. 3 units per side)	Viewed width 30 mm	155
		Viewed width 50 mm	183
			€
Lever handle sets:	(10 lever handle models as standard)	8100 A, 8100 V, 8140 A, 8907 A, 8907 V, 8906 A, 8906 V, 8940 A, 8928 A, 8155 V	Included in the price
Bar handles:	(3 push bar models as standard)	HL G-07, HL G-08, HL G-09	435
Glazing beads:	Fixed price	Angled glazing bead on hinge side and opposite hinge side	93
Fittings and further optional extras			From page 344

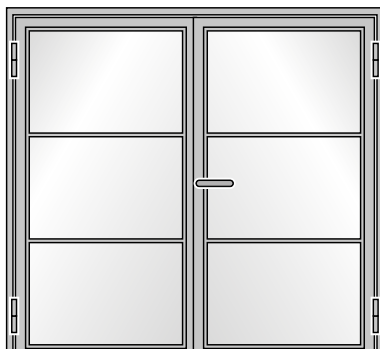


# Steel loft doors

## Double-leaf loft door LFT 02 Slim



Product name	<b>Double-leaf loft door</b>
	<b>LFT 02 Slim</b>
Depth [mm]	60
RAM width (min–max) [mm]	1250–2500
RAM height (min–max) [mm]	1900–3000
Construction sector	<b>Residential construction / residential internal door</b>



### Door set price =

frame / leaf incl. glass  
Fittings and other optional extras

### Already included in the price:

- 1 × mortice lock
- 2 × 3-way weld-on guide rollers in door colour per leaf
- 1 × lever handle set (standard), without profile cylinder and profile cylinder milling
- Laminated safety glass glazing 6 mm
- Slim glazing bead on hinge side and opposite hinge side (standard)
- Top locking of fixed leaf (standard)

► State opening sense on order!

\* Fittings in preferred colours, RAL to choose or special colours, in RAL 9005 Jet black as standard.

### Notice:

For double-leaf loft doors over 2.5 m high, bottom locking is recommended.

### Double-leaf loft door LFT 02 Slim

Ordering sizes (RAM) up to width × up to height		Double-leaf loft door LFT 02 Slim RAL 9005 Jet black	Surface coating * Surcharge		
			Preferred colour	RAL to choose	Special colour NCS/textured
1500	× 2000		250	324	487
		3010	259	337	506
		3155	268	348	521
		3301	276	359	538
		3447	282	367	551
1750	× 2000	3592	261	340	510
		3205	274	356	534
		3370	280	364	547
		3536	287	373	560
		3702	299	389	583
2000	× 2000	3868	274	356	534
		3401	281	365	549
		3587	292	379	569
		3772	300	390	585
		3958	314	408	612
2250	× 2000	4144	281	365	549
		3597	295	383	575
		3803	304	396	594
		4007	315	409	614
		4213	325	423	635
2500	× 2000	4418	292	379	569
		3792	304	396	594
		4018	316	410	616
		4243	325	423	635
		4469	338	440	659
	× 2250	4694			

Number of rails			
Ordering sizes Width	Max. number Vertical rails	Ordering sizes Height	Max. number Horizontal rails
1500–1799	1 *	2000–2299	4*
1800–2500	2 *	2300–2699	5*
		2700–3000	6*
Fittings / additional functions			€
Rails:	Each	Horizontal	150
		Vertical	187
			€
Extension profiles:	(max. 3 units per side)	Viewed width 30 mm	155
		Viewed width 50 mm	183
			€
Lever handle sets:	(10 lever handle models as standard)	8100 A, 8100 V, 8140 A, 8907 A, 8907 V, 8906 A, 8906 V, 8940 A, 8928 A, 8155 V	Included in the price
Bar handles:	(3 push bar models as standard)	HL G-07, HL G-08, HL G-09	435
Glazing beads:	Fixed price	Angled glazing bead on hinge side and opposite hinge side	93
Locking of fixed leaf	Optional	Bottom lock	196
Fittings and further optional extras			From page 34

# Fixed glazing – steel

## Transom light for single-leaf and double-leaf doors



Product name	<b>Loft door transom light</b>
	<b>LFVG- OL Slim</b>
Depth [mm]	60
RAM width (min – max) [mm]	300 – 5000
RAM height (min – max) [mm]	300 – 1000
Construction sector	<b>Residential construction / residential internal door</b>



Transom light

### Door set price =

Frame as fixed glazing incl. glass

### Already included in the price:

- Laminated safety glass glazing 6 mm
- Slim glazing bead on hinge side and opposite hinge side (standard)

### Loft door LFVG- OL Slim

Ordering sizes (RAM) up to width × up to height		Transom light LFVG- OL Slim  RAL 9005 Jet black	Surface coating * Surcharge		
			Preferred colour	RAL to choose	Special colour NCS / textured
500	× 400	<b>1205</b>	35	45	67
		<b>1220</b>	43	56	84
		<b>1259</b>	48	63	94
		<b>1298</b>	57	73	110
750	× 400	<b>1238</b>	41	54	80
		<b>1259</b>	49	64	97
		<b>1312</b>	64	83	125
		<b>1366</b>	70	91	137
1000	× 400	<b>1270</b>	51	67	101
		<b>1298</b>	60	78	116
		<b>1366</b>	70	91	137
		<b>1434</b>	78	101	151
1250	× 400	<b>1302</b>	60	78	116
		<b>1335</b>	68	89	133
		<b>1419</b>	76	99	147
		<b>1503</b>	83	108	162
1500	× 400	<b>1334</b>	64	83	125
		<b>1374</b>	71	92	140
		<b>1473</b>	80	104	155
		<b>1571</b>	87	113	170
1750	× 400	<b>1367</b>	69	90	135
		<b>1413</b>	78	101	151
		<b>1526</b>	86	112	168
		<b>1640</b>	97	126	188
2000	× 400	<b>1399</b>	71	92	140
		<b>1451</b>	82	106	159
		<b>1580</b>	89	116	174
		<b>1709</b>	101	131	196
2250	× 400	<b>1432</b>	76	99	147
		<b>1490</b>	86	112	168
		<b>1633</b>	97	126	188
		<b>1777</b>	106	137	207
2500	× 400	<b>1464</b>	80	104	155
		<b>1528</b>	89	116	174
		<b>1687</b>	101	131	196
		<b>1845</b>	111	145	217

### Number of rails

Ordering sizes Width	Max. number Vertical rails	Ordering sizes Height	Max. number Horizontal rails
500 – 899	1	600 – 899	1
900 – 1249	2	900 – 1000	2
1250 – 1599	3		
1600 – 1949	4		
1950 – 2299	5		
2300 – 2699	6		

# Fixed glazing – steel

## Transom light for single-leaf and double-leaf doors



Product name	<b>Loft door transom light</b>
	<b>LFVG- OL Slim</b>
Depth [mm]	60
RAM width (min – max) [mm]	300 – 5000
RAM height (min – max) [mm]	300 – 1000
Construction sector	<b>Residential construction / residential internal door</b>



Transom light

### Door set price =

Frame as fixed glazing incl. glass

### Already included in the price:

- Laminated safety glass glazing 6 mm
- Slim glazing bead on hinge side and opposite hinge side (standard)

### Loft door LFVG- OL Slim

Ordering sizes (RAM) up to width × up to height		Transom light LFVG- OL Slim  RAL 9005 Jet black	Surface coating * Surcharge		
			Preferred colour	RAL to choose	Special colour NCS / textured
2750	× 400		82	106	159
		500	94	123	185
		750	105	136	205
		1000	121	157	235
3000	× 400		84	109	164
		500	99	128	192
		750	109	142	213
		1000	125	163	243
3250	× 400		93	122	183
		500	104	135	203
		750	113	147	221
		1000	125	163	243
3500	× 400		101	131	196
		500	110	144	215
		750	122	158	237
		1000	130	169	254
3750	× 400		106	137	207
		500	118	153	229
		750	126	164	246
		1000	142	185	276
4000	× 400		111	145	217
		500	124	161	241
		750	135	176	264
		1000	149	194	291
4250	× 400		116	151	227
		500	132	172	258
		750	145	188	282
		1000	161	209	313

Number of rails			
Ordering sizes Width	Max. number Vertical rails	Ordering sizes Height	Max. number Horizontal rails
2700 – 3099	7	500 – 899	1
3100 – 3499	8	900 – 1000	2
3500 – 3899	9		
3900 – 4299	10		

Fittings / additional functions			€
Rails:	Each	Horizontal	150
		Vertical	187
			€
Extension profiles:	(max. 3 units per side)	Viewed width 30 mm	155
		Viewed width 50 mm	183
Glazing beads:	Fixed price	Angled glazing bead on hinge side and opposite hinge side	93

Fittings and further optional extras	From page 344
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# Fixed glazing – steel

## Transom light for single-leaf and double-leaf doors



Product name	<b>Loft transom light</b>
	<b>LFVG- OL Slim</b>
Depth [mm]	60
RAM width (min – max) [mm]	300 – 5000
RAM height (min – max) [mm]	300 – 1000
Construction sector	<b>Residential construction / residential internal door</b>



Transom light

### Already included in the price:

- Laminated safety glass glazing 6 mm
- Glazing bead on both sides (standard)

### Loft door LFVG- OL Slim

Ordering sizes (RAM) up to width × up to height		Transom light LFVG- OL Slim  RAL 9005 Jet black	Surface coating * Surcharge		
			Preferred colour	RAL to choose	Special colour NCS / textured
4500	× 400		130	169	254
		500	142	185	276
		750	153	199	299
		1000	162	210	315
4750	× 400		134	174	262
		500	147	191	286
		750	161	209	313
		1000	172	223	336
5000	× 400		143	186	278
		500	155	201	303
		750	170	221	332
		1000	182	236	354

Number of rails			
Ordering sizes Width	Max. number Vertical rails	Ordering sizes Height	Max. number Horizontal rails
4300 – 4699	11	600 – 899	1
4700 – 5000	12	900 – 1000	2

Fittings / additional functions			€
Rails:	Each	Horizontal	150
		Vertical	187
			€
Extension profiles:	(max. 3 units per side)	Viewed width 30 mm	155
		Viewed width 50 mm	183
Glazing beads:	Fixed price	Angled glazing bead on hinge side and opposite hinge side	93

Fittings and further optional extras	From page 344
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# Fixed glazing – steel

## Side element for single-leaf and double-leaf doors



Product name	<b>Loft side element</b>
	<b>LFVG- ST Slim</b>
Depth [mm]	60
RAM width (min – max) [mm]	300 – 1250
RAM height (min – max) [mm]	1900 – 3000
Construction sector	<b>Residential construction / residential internal door</b>



Side element

### Already included in the price:

- Laminated safety glass glazing 6 mm
- Glazing bead on both sides (standard)

### Loft door LFVG- ST Slim

Ordering sizes (RAM) up to width × up to height			Side element LFVG- ST Slim  RAL 9005 Jet black	Surface coating * Surcharge		
				Preferred colour	RAL to choose	Special colour NCS / textured
500	×	2000	<b>1451</b>	78	101	151
		2250	<b>1490</b>	87	113	170
		2500	<b>1528</b>	98	127	190
		2750	<b>1566</b>	104	135	203
		3000	<b>1605</b>	110	144	215
750	×	2000	<b>1580</b>	88	114	172
		2250	<b>1633</b>	96	124	186
		2500	<b>1687</b>	105	136	205
		2750	<b>1740</b>	111	145	217
		3000	<b>1794</b>	122	158	237
1000	×	2000	<b>1709</b>	93	122	183
		2250	<b>1777</b>	104	135	203
		2500	<b>1845</b>	110	144	215
		2750	<b>1914</b>	120	155	233
		3000	<b>1983</b>	126	164	246
1250	×	2000	<b>1837</b>	101	131	196
		2250	<b>1921</b>	109	142	213
		2500	<b>2005</b>	118	153	229
		2750	<b>2088</b>	125	163	243
		3000	<b>2171</b>	137	178	268

### Number of rails

Ordering sizes Width	Max. number Vertical rails	Ordering sizes Height	Max. number Horizontal rails
600 – 899	1	2000 – 2299	4
900 – 1250	2	2300 – 2699	5
		2700 – 3000	6

### Fittings / additional functions

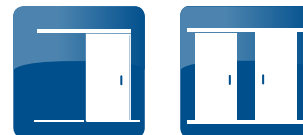
Rails:	Each	Horizontal	150
		Vertical	187
			€
Extension profiles:	(max. 3 units per side)	Viewed width 30 mm	155
		Viewed width 50 mm	183
Glazing beads:	Fixed price	Angled glazing bead on hinge side and opposite hinge side	93

### Fittings and further optional extras

From page 344

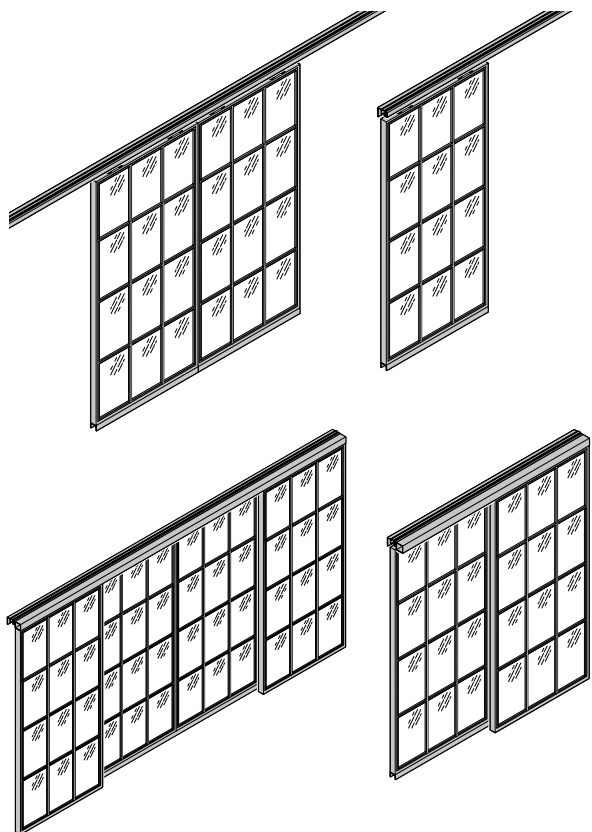
# Steel loft door sliding doors

## Single-leaf and double-leaf doors



## Product description

### Product description



### Modern, exclusive loft sliding doors (single-leaf and double-leaf) with and without side elements.

Each door assembly will be individually manufactured according to measurements.

#### Track variant

- Wall fitting
- Ceiling or wall opening
- Wall pocket fitting
- SmartStop system (optional)
- Synchronous double-leaf (optional)

#### Fittings

- 4 different sliding door shells to choose from (standard)

#### Seals

- Glass hinge seal

#### Design

- Galvanized steel tubular frame profiles, powder-coated in RAL 9005 Jet black (standard) or in preferred colours, RAL to choose or special colours (optional)

#### Visible surfaces

- Flush-fitting
- Viewed width 20 mm
- Viewed width (fixed glazing) 20 mm
- Bottom section height 50 mm
- Fixed glazing depth 60 mm
- Sliding door depth 40 mm

#### Glazing

- Laminated safety glass 6 mm (standard)
- Weight with standard glazing approx. 30 kg/m<sup>2</sup>
- Slim glazing bead on hinge side and opposite hinge side (standard)

### Size range (overall frame dimensions)

#### Single-leaf loft sliding door (LFST 01 Slim)

- RAM (W × H) min. 650 × 1900 mm
- RAM (W × H) max. 1500 × 3000 mm

#### Double-leaf loft sliding door (LFST 02 Slim)

- RAM (W × H) min. 1250 × 1900 mm
- RAM (W × H) max. 2500 × 3000 mm

#### Side element (LFST V1 or LFST V2)

- RAM (W × H) min. 300 × 1900 mm
- RAM (W × H) max. 1250 × 3000 mm

### Surface coating

Powder coating, both sides

- **Standard colour:** RAL 9005 Jet black
- **Preferred colours:**
  - RAL 7016 Anthracite grey
  - RAL 9006 White aluminium
  - RAL 9007 Grey aluminium
  - RAL 9016 Traffic white
  - CH 703 Anthracite metallic
- **RAL to choose:** KABE palette
- **Special colours:** NCS, textured and pearl-effect colours

#### Gloss levels:

- Matt as standard (gloss level 35 ± 5)
- Special gloss levels (gloss level 75 ± 10) or high-gloss (gloss level > approx. 85, gloss points according to ISO 2813, 60 degree measuring angle) are available to order.

### Glazing

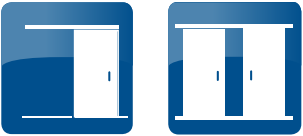
- **Laminated safety glass:**
  - Laminated safety glass 6 mm (standard)
  - Laminated safety glass 6 mm with matt plastic film (optional)
- **Glazing beads:** (on hinge side and opposite hinge side)
  - Standard: slim glazing bead (also as rails)

### Special profiles

- **Top extension profile:**
  - Viewed width 60 mm for sliding door version with side element as connection (connector)
  - Viewed width 80 mm for double-leaf synchronous version as sliding door version with side element as connection (connector)
- **Extension profiles** (max. 3 units per side):
  - Viewed width 30 mm or 50 mm
- **Corner profiles:** 90°

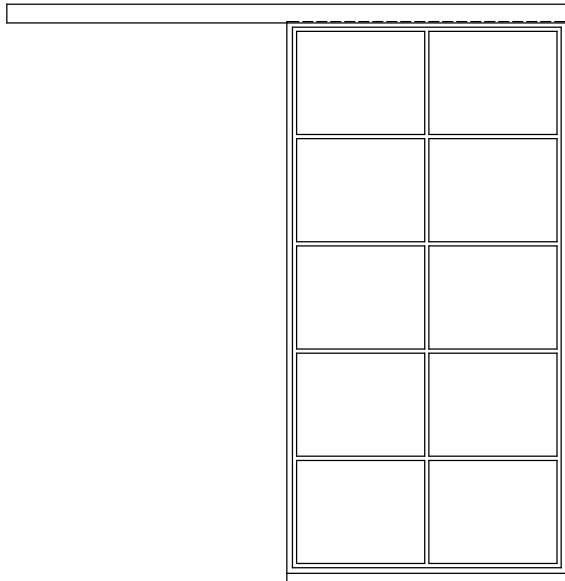
# Steel loft sliding doors

Single-leaf and double-leaf doors

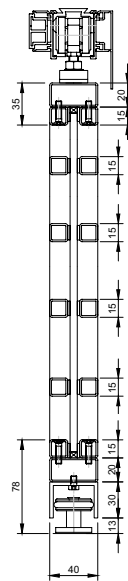


## Technical drawings

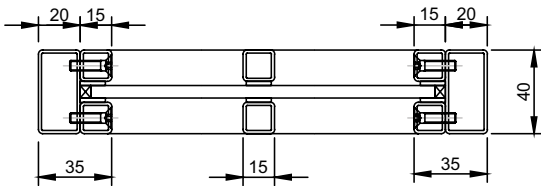
Single-leaf door view



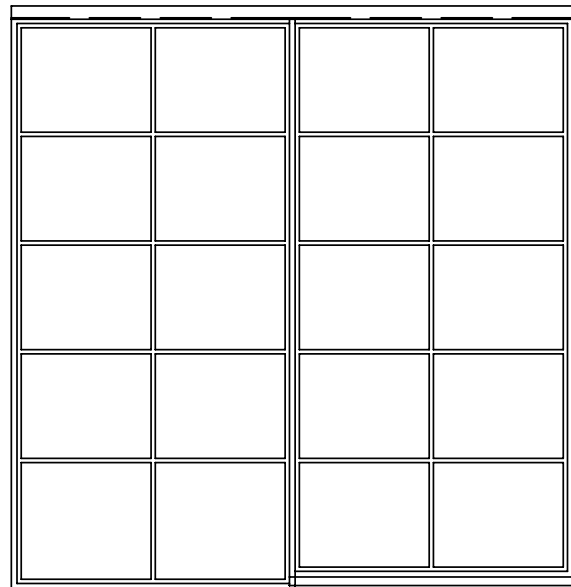
Vertical view



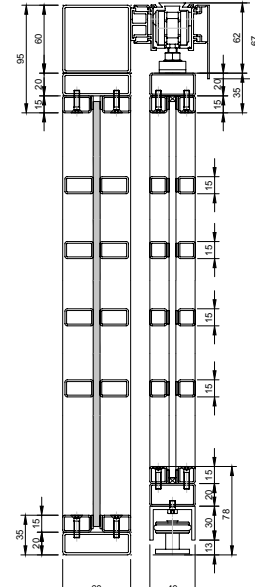
Horizontal view



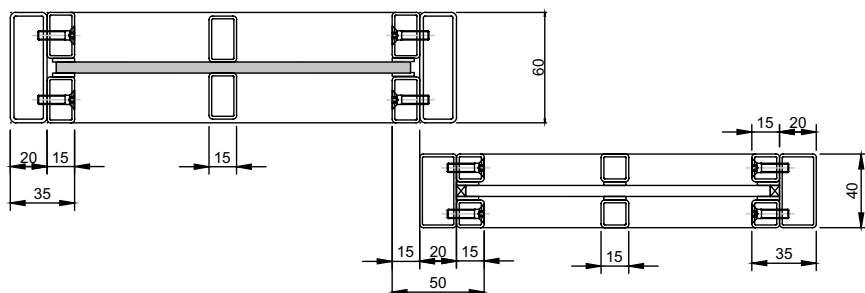
Double-leaf door view



Vertical view



Horizontal view



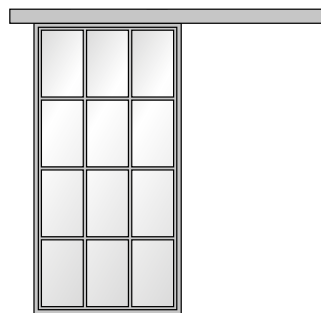
- LD** Clear passage dimension
- LD GF** Traffic leaf clear passage dimension
- LD SF** Fixed leaf clear passage dimension
- RAMB** Overall frame width
- RAMH** Overall frame height

# Steel loft sliding doors

## Single-leaf loft sliding door LFST 01 Slim



Product name	<b>Single-leaf loft sliding door</b>
	<b>LFST 01 Slim</b>
Depth [mm]	40 mm
RAM width (min – max) [mm]	650 – 1500
RAM height (min – max) [mm]	1900 – 3000
Construction sector	<b>Residential construction / residential internal door</b>



### Door set price =

frame / leaf incl. glass  
Fittings and other optional extras.

### Already included in the price:

- Security door leaf
- Laminated safety glass glazing 6 mm
- Slim glazing bead
- Frame type in front of the wall

### Plus:

- Corresponding frame type
- Bar handle selection

► State opening sense on order! Bar handles for RAL to choose or special colours in RAL 9005 Jet black as standard.

Single-leaf loft sliding door LFST 01 Slim						
Ordering sizes (RAM) up to width × up to height			Loft sliding door LFST 01 Slim	Surface coating * Surcharge		
			RAL 9005 Jet black	Preferred colour	RAL to choose	Special colour NCS / textured
750	×	2000	<b>2515</b>	146	190	284
		2250	<b>2615</b>	150	195	293
		2500	<b>2716</b>	157	205	307
		2750	<b>2817</b>	165	214	321
		3000	<b>2917</b>	167	217	325
1000	×	2000	<b>2728</b>	149	194	291
		2250	<b>2851</b>	157	205	307
		2500	<b>2974</b>	166	215	323
		2750	<b>3097</b>	169	219	329
		3000	<b>3219</b>	174	227	340
1250	×	2000	<b>2944</b>	162	210	315
		2250	<b>3088</b>	169	219	329
		2500	<b>3233</b>	174	227	340
		2750	<b>3378</b>	179	233	349
		3000	<b>3522</b>	189	246	368
1500	×	2000	<b>3159</b>	167	217	325
		2250	<b>3324</b>	172	223	336
		2500	<b>3491</b>	179	233	349
		2750	<b>3658</b>	187	242	364
		3000	<b>3825</b>	194	253	379

Number of rails			
Ordering sizes Width	Max. number Vertical rails	Ordering sizes Height	Max. number Horizontal rails
750 – 899	1	2000 – 2299	4
900 – 1249	2	2300 – 2699	5
1250 – 1500	3	2700 – 3000	6

Fittings / additional functions			€
Rails:	Each	Horizontal	150
		Vertical	187
			€
Frame type:	In front of the wall		Included in the price
	In the wall opening or fitting to ceiling		-86
	Running within the wall – pocket fitting		-196
Sliding door shells:	(4 sliding door shells as standard)	HL MG-02, HL MG-03, HL MG-04, HL MG-05	278
SmartStop:	Per set		405
Door stay:	Version for sliding door running within the wall	Each	169

Fittings and further optional extras	From page 344
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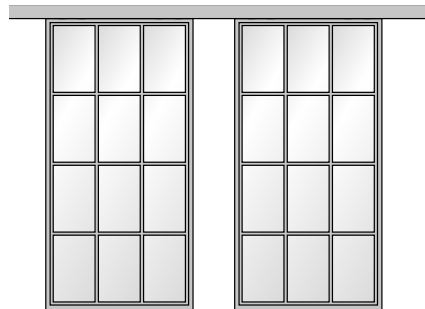


# Steel loft sliding doors

## Double-leaf loft sliding door LFST 02 Slim



Product name	<b>Double-leaf loft sliding door</b>
	<b>LFST 02 Slim</b>
Depth [mm]	40 mm
RAM width (min–max) [mm]	1250–2500
RAM height (min–max) [mm]	1900–3000
Construction sector	<b>Residential construction / residential internal door</b>



### Door set price =

frame / leaf incl. glass  
Fittings and other optional extras

### Already included in the price:

- Security door leaf
- Laminated safety glass glazing 6 mm
- Slim glazing bead
- Frame type in front of the wall

### Plus:

- Corresponding frame type
- Bar handle selection
- Number of rails

► State opening sense on order! Bar handles for RAL to choose or special colours in RAL 9005 Jet black as standard.

### Double-leaf loft sliding door LFST 02 Slim

Ordering sizes (RAM) up to width × up to height			Loft sliding door LFST 01 Slim RAL 9005 Jet black	Surface coating * Surcharge		
				Preferred colour	RAL to choose	Special colour NCS / textured
1500	x	2000	<b>4213</b>	250	324	487
	x	2250	<b>4417</b>	259	337	506
	x	2500	<b>4621</b>	268	348	521
	x	2750	<b>4825</b>	276	359	538
	x	3000	<b>5029</b>	282	367	551
1750	x	2000	<b>4488</b>	261	340	510
	x	2250	<b>4720</b>	274	356	534
	x	2500	<b>4951</b>	280	364	547
	x	2750	<b>5183</b>	287	373	560
	x	3000	<b>5415</b>	299	389	583
2000	x	2000	<b>4761</b>	274	356	534
	x	2250	<b>5022</b>	281	365	549
	x	2500	<b>5281</b>	292	379	569
	x	2750	<b>5541</b>	300	390	585
	x	3000	<b>5800</b>	314	408	612
2250	x	2000	<b>5035</b>	281	365	549
	x	2250	<b>5323</b>	295	383	575
	x	2500	<b>5611</b>	304	396	594
	x	2750	<b>5899</b>	315	409	614
	x	3000	<b>6186</b>	325	423	635
2500	x	2000	<b>5309</b>	292	379	569
	x	2250	<b>5625</b>	304	396	594
	x	2500	<b>5941</b>	316	410	616
	x	2750	<b>6256</b>	325	423	635
	x	3000	<b>6572</b>	338	440	659

Number of rails			
Ordering sizes Width	Max. number Vertical rails	Ordering sizes Height	Max. number Horizontal rails
1500–1799	1*	2000–2299	4*
1800–2500	2*	2300–2699	5*
*per leaf		2700–3000	6*

Fittings / additional functions			€
Rails:	Each	Horizontal	150
		Vertical	187
			€
Frame type:	In front of the wall		Included in the price
	In the wall opening or fitting to ceiling		-122
	Running within the wall – pocket fitting		-342
	Synchronous		1349
Sliding door shells:	(4 sliding door shells as standard)	HL MG-02, HL MG-03, HL MG-04, HL MG-05	278
SmartStop:	Per set		778
Door stay:	Version for sliding door running within the wall	Each	169














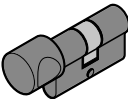


Fittings and further optional extras	From page 344
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# Steel loft doors

Single-leaf loft door LFT 01 Slim /  
Double-leaf loft door LFT 02 Slim



## Fittings and further optional extras

Lever handle sets – hinged doors (lever handle / lever handle)				€/ door
<b>Notice:</b> Lever handle sets are always supplied separate, in black RAL 9005 as standard, optionally in stainless steel.				
	Ogro design model 8100 A		Black, RAL 9005	Standard
			Stainless steel, V2A	147
	Ogro design model 8100 V		Black, RAL 9005	Standard
			Stainless steel, V2A	147
	Ogro design model 8140 A		Black, RAL 9005	Standard
			Stainless steel, V2A	147
	Ogro design model 8907 A		Black, RAL 9005	Standard
			Stainless steel, V2A	147
	Ogro design model 8907 V		Black, RAL 9005	Standard
			Stainless steel, V2A	147
	Ogro design model 8906 A		Black, RAL 9005	Standard
			Stainless steel, V2A	147
	Ogro design model 8906 V		Black, RAL 9005	Standard
			Stainless steel, V2A	147
	Ogro design model 8155 V		Black, RAL 9005	Standard
			Stainless steel, V2A	147
	Ogro design model 8928 A		Black, RAL 9005	Standard
			Stainless steel, V2A	147
	Ogro design model 8940 A		Black, RAL 9005	Standard
			Stainless steel, V2A	147
	ECO – design model Kome D-810		Brass, concrete	222
			Stainless steel design	
Profile cylinder and profile cylinder preparation – hinged doors				€/ each
	CES C – 690 Unicolor – Midnight Black	Cylinder spacing 31 / 31	Black, RAL 9005	148
			Stainless steel design	
	CES C – 692 Bi-colour – Midnight Black	Cylinder spacing 31 / 31	Black, RAL 9005	148
			Stainless steel design	
	CES variants Rotary knob	Cylinder spacing 31 / 31	Black, RAL 9005	174
			Stainless steel design	
	WC profile cylinder	Cylinder spacing 31 / 31	Stainless steel design	176
	Digital cylinder Evolo Smart	<div>► Access via card, key chain (chip) or smartphone</div> <div>► Ideal for retrofitting</div>		878
			<b>Notice:</b> Version only possible for your own design	

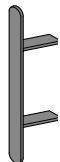
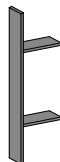
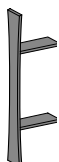
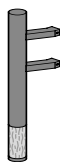

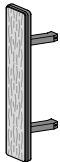
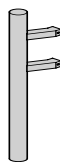
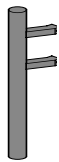
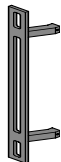
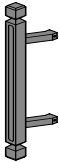
# Steel loft doors

Single-leaf loft door LFT 01 Slim /  
Double-leaf loft door LFT 02 Slim

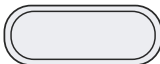
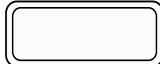




## Fittings and further optional extras

### High-quality bar handles in different shapes (screwed on)

<b>Hörmann design Model HL G-07</b>  Lengths (mm) 300; 500; 700; 900; 1100 Black bar, RAL 9005 as well as in door colour <b>435 €</b>	<b>Hörmann design Model HL G-08</b>  Lengths (mm) 300; 500; 700; 900; 1100 Black bar, RAL 9005 as well as in door colour <b>435 €</b>	<b>Hörmann design Model HL G-09</b>  Lengths (mm) 300; 500; 700; 900; 1100 Black bar, RAL 9005 as well as in door colour <b>435 €</b>	<b>Hörmann design Model HL G-10</b>  Lengths (mm) 500 Jet black matt bar, round with oak handle <b>612 €</b>	<b>Hörmann design Model HL G-11</b>  Lengths (mm) 500 Jet black matt bar, with Lacobel glass inlay <b>612 €</b>
<b>Hörmann design Model HL G-12</b>  Lengths (mm) 500 Jet black matt bar, with oak inlay <b>612 €</b>	<b>Hörmann design Model HL G-13</b>  Lengths (mm) 500 Finely polished stainless steel bar <b>612 €</b>	<b>Hörmann design Model HL G-14</b>  Lengths (mm) 500 Jet black matt bar, round <b>612 €</b>	<b>Hörmann design Model HL G-15</b>  Lengths (mm) 500 Jet black matt bar, industrial design <b>612 €</b>	<b>Hörmann design Model HL G-16</b>  Lengths (mm) 500 Jet black matt bar, art deco <b>612 €</b>

### Hörmann sliding door shells

<b>Model HL MG-02</b>  RAL 9005 as well as in door colour <b>278 €</b>	<b>Model HL MG-03</b>  RAL 9005 as well as in door colour <b>278 €</b>	<b>Model HL MG-04</b>  RAL 9005 as well as in door colour <b>278 €</b>	<b>Model HL MG-05</b>  RAL 9005 as well as in door colour <b>278 €</b>
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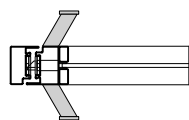
### Push bars (welded on)

1) Push bar HL G-06 made of box section for rail fixing (min. 2 or 3 rails) required.

L Length of bar handle	300	500	700	900	1100
x Distance of support brackets from the handle ends	50	100	150	200	250

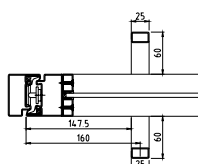
Please state the handle no. and the length of the bar handle on the order.

Fig.: similar



Valid for HL G-07 to HL G-09

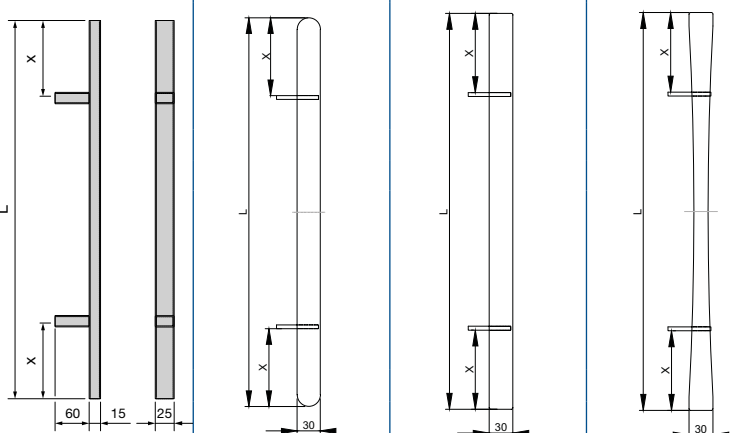
1)



\* Valid for HL G-06

#### Notice:

The bar handle length depends on the rail spacing and is individually adapted.



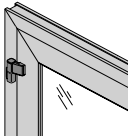
Handle no.	HL G-06	HL G-07	HL G-08	HL G-09
Material / surface finish	in door colour	in door colour	in door colour	in door colour
Number of support brackets	2	2	2	2
Surcharge € for handle package	548	548	548	548

# Steel loft doors

Single-leaf loft door LFT 01 Slim /  
Double-leaf loft door LFT 02 Slim



## Fittings and further optional extras

Door closers and hold-open devices			
	<b>Concealed door closer Dorma – ITS 96</b> <ul style="list-style-type: none"> <li>Opening angle 120°</li> <li>Max. leaf weight 130 kg</li> <li>Only traffic leaf possible with double-leaf doors.</li> </ul> <b>Notice:</b> For the ITS version, upper leaf profile is 13 mm wider than standard.	Overall frame dimension	
		Min.	Max.
		≥ 788	≤ 1488
			547
Bottom seal without threshold rail			
Retractable bottom seal		Single-leaf	175
<ul style="list-style-type: none"> <li>For fitting on a smooth, level floor</li> <li>Stiffener only for transport protection</li> </ul>		Double-leaf	350
Lock systems – single-point locking			€
Bolt lock for single-leaf and double-leaf doors		Each	114
<ul style="list-style-type: none"> <li>Suitable for doors with handle design</li> </ul>			
Mortice lock for single-leaf and double-leaf doors		Each	131
<ul style="list-style-type: none"> <li>Suitable for doors with handle design</li> </ul>			
Electric strikes			€
IST FT 5002 – FB, 12 – 24 V, adjustable		Single-leaf door	530
IST FT 5002 – FB, 12 – 24 V, adjustable, incl. concealed electro duct		Double-leaf door	638
Hinges			€
3-way weld-on guide roller	in door colour	Each	Standard
	in stainless steel (V2A)	Each	137
Corner profile			€
90° corner	in door colour	Each	308
Extension profiles			€
Max. 3 units per side	Viewed width 30 mm	Each	155
	Viewed width 50 mm	Each	183
For sliding door version with side element as connection (connector)	Viewed width 60 mm	Each	345
For double-leaf synchronous version as sliding door with side element as connection (connector)	Viewed width 80 mm	Each	394
Rails			€
Rails	Horizontal	Each	150
	Vertical	Each	187
Locking			€
Locking of fixed leaf	Top		Standard
	Bottom	Per door	196
Glazing beads			€
Glazing beads on hinge side and opposite hinge side	Slim glazing bead (also as rails)		Standard
	Angled glazing bead	Flat rate per door / side element / transom light	92
Further optional extras			€
Laminated safety glass glazing 6 mm with matt plastic film		Per m²	Surcharge
			156
Omission of laminated safety glass glazing if glazing is provided on site		Price reduction per m²	– 50

Good reasons to try Hörmann  
steel and aluminium tubular frame  
construction project doors



Maximum clear passage width

**Steel profile frame**

\* compared to door version with fascia frame

**HÖRMANN**

# Good reasons to try Hörmann steel loft doors



Industrial style for living areas and workspaces

**Large glazings with  
high-quality steel profiles**

**HÖRMANN**

Good reasons to try Hörmann  
steel tubular frame construction  
project doors



Particularly narrow door view

**S-Line system**

**HÖRMANN**

# Good reasons to try Hörmann aluminium tubular frame construction project doors



Elegant door view without visible frame face

## Frame without face

\* compared to door version with fascia frame

# HÖRMANN



# Good reasons to try Hörmann residential internal doors



Certified by ClimatePartner

**As standard with all  
steel loft doors**

**HÖRMANN**



# Brand quality for residential and commercial construction

The family-owned company Hörmann offers all important construction components for building and renovating projects from a single source. We manufacture in highly-specialised factories using state-of-the-art production technologies. Furthermore, our employees work intensively on new products, continual further developments and improvements to details. The results are patents and one-of-a-kind products you can depend on.

