

Industrial price list 10-23

Valid from 01.06.2023

**Sliding doors,
hinged garage doors,
fire protection curtains and
vertical fire sliding doors**

HÖRMANN

Hörmann international sales companies and sales partners



Hörmann KG
Verkaufsgesellschaft
Upheider Weg 94-98
D-33803 Steinhagen
Telefon +49 5204 915-0
Telefax +49 5204 915-277
Internet www.hoermann.com

Hörmann international sales companies

International sales partners

Hörmann international sales companies

Hörmann Austria
A-5310 Mondsee
info@hoermann.at

Hörmann Baltic
LT-14247 Vilnius r.
info@hoermann.lt

Hörmann Bel
BY-220125 Minsk
info@hoermann.by

Hörmann Belgium
B-3700 Tongeren
info@hoermann.be

Hörmann Bulgaria
BG-1532 Sofia
info.sof@hoermann.bg

Hörmann Česká republika
CZ-252 68 Středokluky
info@hoermann.cz

Hörmann China
CN-100176 Beijing
info@hoermann.cn

Hörmann Danmark
DK-8920 Randers
info@hoermann.dk

Hörmann Eesti
EST-76505 Saue
info.tll@hoermann.ee

Hörmann España
E-08228 Terrassa
info.cat@hoermann.es

Hörmann Finland
FIN-02420 Jorvas
info@mesvac.fi

Hörmann France
F-89107 Sens
info@hoermann.fr

Hörmann Hellas
GR-19400 Koropi
info@hoermann.gr

Hörmann Hong Kong
HK-Quarry Bay
info@hoermann.com.hk

Hörmann Hrvatska
HR-10290 Zaprešić
info@hoermann.hr

Hörmann Hungária
H-2310 Szigetszentmiklós
info@hoermann.hu

Hörmann Indien
Shakti Hörmann
IND-500015 Secunderabad,
Telangana
sales@shaktihormann.com

Hörmann Indonesia
ID-12520 Jakarta
info@hoermann.id

Hörmann Ireland
IRL – Y35 HH72 Wexford
info@hoermann.ie

Hörmann Italia
I-38015 Lavis (Trento)
info@hoermann.it

Hörmann Kazakhstan
KZ-050019 Almaty
info@hoermann.kz

Hörmann Maghreb
MA-28810 Mohammedia
info@hoermann.ma

Hörmann Malaysia
MAL-40150 Shah Alam,
Selangor
info_apac@hoermann.com

Hörmann Mexico
MEX-66350
Santa Catarina
info@hoermann.com.mx

Hörmann Middle East & Africa
UAE-Dubai
info.dxb@hoermann.com

Hörmann Nederland
NL-3771 MB Barneveld
info@hoermann.nl

Hörmann Norge
N-4640 Søgne
info@hoermann.no

Hörmann Polska
PL-62-052 Komorniki
info@hoermann.pl

Hörmann Portugal
P-2710-297 Sintra
info@hoermann.pt

Hörmann Romania
RO-077040, Chiajna,
Județul Ilfov
info@hoermann.ro

Hörmann Russia
RUS-196696
Sankt Petersburg
info@hoermann.ru

Hörmann Schweiz
CH-4702 Oensingen
info@hoermann.ch

Hörmann Serbia
SRB-11272
Beograd-Dobanovci
info@hoermann.rs

Hörmann Slovenija
SI-3301 Petrovče
info@hoermann.si

Hörmann Slovenská republika
SK-903 01 Senec
info.bts@hoermann.com

Hörmann Svenska
S-70369 Örebro
info@hoermann.se

Hörmann Thailand
TH-Bangplee,
Samutprakarn 10540
info@hoermann.co.th

Hörmann Türkiye
TR-34870 Kartal – Istanbul
info.ist@hoermann.com.tr

Hörmann UK
GB-Leicestershire
LE67 4JW
info@hoermann.co.uk

Hörmann Ukraine
UA-08300 Boryspil,
Kyivska Obl.
info@hoermann.com.ua

Hörmann High Performance Doors
USA-Burgettstown,
PA 15021
info2@hoermann.us

Hörmann LLC
USA-Montgomery,
IL 60538
info1@hoermann.us

Hörmann Vietnam
VN-Hanoi
info.han@hoermann.vn

International sales partners

Albania
Algeria
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Contents

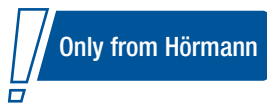
Product description of standard equipment				Page	
Sliding doors	Multi-purpose sliding doors			4	
	Fire sliding doors			5	
	High-speed multi-purpose sliding doors			6	
	High-speed fire sliding doors			7	
Vertical sliding doors			Multi-purpose vertical sliding doors	8	
Hinged garage doors	Multi-purpose hinged garage doors			9	
	Fire-rated hinged garage doors			9	
Textile curtains	Fire protection curtain E			10	
	Fire protection curtain EW			11	
	Fire protection curtain EI			12	
Multi-purpose sliding doors					
Multi-purpose sliding doors	FST MZ-1 OD	Single-leaf		14	
	FST MZ-2 OD	Double-leaf		16	
Telescopic multi-purpose sliding doors	FST MZ-1 T2 OD	Single-leaf, 2-part telescopic		18	
	FST MZ-1 T3 OD	Single-leaf, 3-part telescopic		20	
Fire sliding doors					
Fire sliding doors	FST 30-1 OD	El ₂ 30 single-leaf		22	
	FST 30-2 OD	El ₂ 30 double-leaf		24	
	FST 60-1 OD	El ₂ 60 single-leaf		26	
	FST 60-2 OD	El ₂ 60 double-leaf		28	
	FST 90-1 OD	El ₂ 90 single-leaf		30	
	FST 90-2 OD	El ₂ 90 double-leaf		32	
	FST 120-1 OD	El ₂ 120 single-leaf		34	
	FST 120-2 OD	El ₂ 120 double-leaf		36	
	FST BS120	BS120		38	
	FST BS240	BS 240		39	
	Telescopic fire sliding doors	FST 30-1-T2 OD	El ₂ 30 single-leaf, 2-part telescopic		40
		FST 30-1-T3 OD	El ₂ 30 single-leaf, 3-part telescopic		42
FST 60-1-T2 OD		El ₂ 60 single-leaf, 2-part telescopic		44	
FST 60-1-T3 OD		El ₂ 60 single-leaf, 3-part telescopic		46	
FST 90-1-T2 OD		El ₂ 90 single-leaf, 2-part telescopic		48	
FST 90-1-T3 OD		El ₂ 90 single-leaf, 3-part telescopic		50	
High-speed sliding doors					
High-speed multi-purpose sliding doors	FST S MZ-1	Single-leaf		52	
	FST S MZ-2	Double-leaf		53	
High-speed fire sliding doors	FST S 30-1	El ₂ 30 single-leaf		54	
	FST S 30-2	El ₂ 30 double-leaf		55	
Operators and optional extras for single-leaf and double-leaf sliding doors FST S				56	
Vertical sliding doors					
Vertical fire sliding door	FHT OD MZ	El ₂ 30 single-leaf	Up to 7000 mm width	58	
Vertical fire sliding door	FHT OD	El ₂ 30 single-leaf	Up to 7000 mm width	60	
Vertical fire sliding door	FHT OD	El ₂ 90 single-leaf	Up to 7000 mm width	62	
Optional extras for vertical fire sliding doors				64	
Hinged garage doors					
Multi-purpose hinged garage doors	DFT MZ-1	Single-leaf	Up to 5000 mm width	66	
Fire-rated hinged garage doors	DFT 30-1	El ₂ 30 single-leaf	Up to 3950 mm width	67	
Textile curtains					
Fire protection curtains	FlexFire E	E30, E60, E90, E120		68	
Fire protection curtains	FlexFire EW	EW30, EW60		70	
Fire protection curtains	FlexFire EI	EW90, EI ₂ 30		72	
Operators for sliding doors					
Operator SupraMatic HT	For multi-purpose and fire sliding doors		Up to 800 kg	84 – 86	
Operator ITO 500	For multi-purpose and fire sliding doors		800 – 2500 kg	88 – 89	
Colour coating and surface finish versions				74	
Optional extras for multi-purpose and fire sliding doors				76 – 96	
Side door STU, Pearlgrain for sliding doors				97	
Standard packaging / special packaging for sliding doors				98	
Technical notes					
Calculating the number of smoke detectors for fire sliding doors				99	
Determining the cylinder length for sliding doors / wicket doors				100	

We think green.

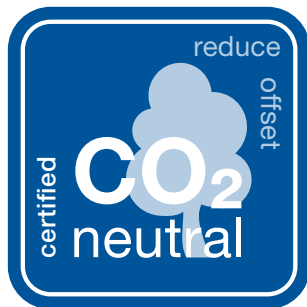
Hörmann leads by example: We use green electricity to cover 100% of our electricity requirements at all European production sites. Together with an intelligent and certified energy management system, the use of recycled paper, the saving and upcycling of packaging and the recycling of reusable materials, this saves over 75000 tons of CO₂ each year. Additionally, we offset the remaining unavoidable emissions generated during our production of products for residential construction by supporting renewable energy, forest protection and reforestation projects in cooperation with ClimatePartner.



You can find all information and many videos at www.hormann.co.uk/company/environment



WE ACT GREEN. Our climate protection strategy is based on the annual calculation of the CO₂ balance at our sites, which includes the products manufactured there. 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 CO₂ emissions through climate protection projects. This makes us the first and only construction component manufacturer to offer CO₂-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



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CO₂
measure
reduce
contribute

Multi-purpose sliding doors FST – Steel and stainless steel

Product description for standard equipment

Steel multi-purpose sliding doors FST OD (see from page 14)

MZ

Door leaf:

- Flush, fully bonded tongue-and-groove element connection
- Galvanized sheet steel, sheet thickness 0.75 mm, standard surface finish Pearlgrain or smooth sheet steel
- Door galvanized as standard, without primer coating
- Element thickness / door leaf thickness: 72 mm
- Panel style connected using concealed, internal threaded rods
- Panel widths dependent on the door height: 230–1553 mm
- Max. individual panel weight 180 kg
- With honeycomb infill, optionally with mineral wool infill
- Grip handle and recessed handle in stainless steel V2 A, 1.4301
- Multi-purpose sliding doors without hydraulic soft stop as standard
- Without lock as standard
- Integrated floor guide roller with ball-bearing
- Centring devices attached to the guiding profile
- Optional hold-open locking positions (only for external doors)
- Optional track cover for external doors

Door frame:

- Closed, patented, cold-rolled, galvanized C-profile track with three-way adjustable suspension brackets and bolt plug-in connection for a precise track joint
- Track wall connection profile to compensate for irregularities in the wall
- 2 × galvanized roller pairs with ball-bearing per panel
- Track clad with galvanized sheet steel cover
- For the RAL to choose option, the complete sliding door frame is delivered coated
- Separate track cover

Fixing material

For fitting to steel, concrete and brickwork

Actuation:

- Manual opening and closing as standard
- Optionally with operator or opening aid

Prepared for fitting to:

- Flush brickwork
- Concrete
- Gas concrete
- Sand-lime brickwork
- Timber partition wall
- Steel columns

Tested according to door product standard EN 13241-1

Version for external applications:

- Max. door size 6000 × 6000 mm, larger dimensions upon consultation with the factory
- External doors always with track cover
- Mineral wool insulation (note the surcharge!)
- Exclusively available with coating in the colours RAL 7035, RAL 9002, RAL 9006, RAL 9007, RAL 9010 and RAL 9016. Further light colours on request
- Operators on external doors only possible on the interior fitting side.

Multi-purpose sliding doors FST OD made of stainless steel V2 A, 1.4301, K240 polished (see from page 14)



MZ

Door leaf:

- Flush, fully bonded tongue-and-groove element connection
- Stainless steel sheet V2 A, 1.4301, sheet thickness 0.8 mm, K240 polished, smooth
- Element thickness / door leaf thickness: 72 mm
- Panel style connected using concealed, internal threaded rods
- Panel widths dependent on door heights: 230–1555 mm
- Max. individual panel weight 180 kg
- With honeycomb infill, optionally with mineral wool infill
- Grip handle and recessed handle in stainless steel V2 A, 1.4301
- Multi-purpose sliding doors without hydraulic soft stop as standard
- Without lock as standard
- Integrated floor guide roller with ball-bearing
- Centring devices attached to the guiding profile

Door frame:

- Closed, patented, cold-rolled, C-profile track made of stainless steel V2 A, 1.4301 and bolt plug-in connection for precise track joint
- Guiding profile, labyrinth profile and weight box made of stainless steel V2 A, 1.4301
- Track wall connection profile to compensate for irregularities in the wall
- Three-way adjustable suspension brackets, made of stainless steel V2 A, 1.4301
- 2 roller pairs with ball-bearing per panel, made of stainless steel V2 A, 1.4301
- Track clad with cover sheet made of stainless steel V2 A, 1.4301
- Closing weight rope in stainless steel V2 A, 1.4301

Fixing material

For fitting to steel, concrete, brickwork and gas concrete

Actuation:

- Manual opening and closing as standard
- Optionally with operator or opening aid

Prepared for fitting to:

- Flush brickwork
- Concrete
- Gas concrete
- Sand-lime brickwork
- Timber partition wall
- Steel columns

Tested according to door product standard EN 13241-1

Fire and smoke-tight sliding doors FST OD made of steel

Product description for standard equipment

Steel fire and smoke-tight sliding doors (see from page 22)

EI₂30 EI₂60 EI₂90 EI₂120

Door leaf:

- Flush, fully bonded tongue-and-groove element connection
- Galvanized sheet steel, sheet thickness 0.75 mm, standard surface finish Pearlgrain or optionally smooth sheet steel
- Door galvanized as standard, without primer coating
- Element thickness / door leaf thickness: 72 mm
- Panel style connected using concealed, internal threaded rods
- Panel widths dependent on the door height: 230 – 1553 mm
- Max. individual panel weight 180 kg
- EI₂30 with fire-retarding insulation
- EI₂60, EI₂90 and EI₂120 with fire-proof insulation
- Including hydraulic track control for continuously adjustable closing speed (0.08 – 0.2 m/s) invisibly integrated into the weight box
- Without lock as standard
- Grip handle and recessed handle in stainless steel V2 A, 1.4301
- Integrated floor guide roller with ball-bearing
- Without guidance damper for doors < 9 m² (up to EI₂90)
- Integrated guidance damper for single-leaf doors EI₂30 > 9 m²
- Surface-mounted guidance damper bracket for double-leaf doors, telescopic doors and for EI₂90 version > 9 m²
- Galvanized telescopic anchor surface-mounted on the door leaf
- Centring devices attached to the guiding profile

Door frame:

- Closed, patented, cold-rolled, galvanized C-profile track with three-way adjustable suspension brackets and bolt plug-in connection for a precise track joint
- Track wall connection profile to compensate for irregularities in the wall
- 2 × galvanized roller pairs with ball-bearing per panel
- Track clad with galvanized sheet steel cover
- Weight box on the side with internal closing weight, including anti-rotation safeguard, clad with galvanized sheet steel cover
- For the RAL to choose option, the complete door frame is delivered coated; optionally the door leaf can be supplied in colour with a galvanized frame at a reduced price
- Magnet connected to C-profile track

Actuation:

- Manual door opening as standard
- Door closing by closing weight on the closing side
- Optionally with operator or opening aid

Smoke protection version (up to EI₂120)

- All-round seal containing silicone
- Wiper seal at the track and as a bottom edge
- Threshold gasket on the guiding and labyrinth profiles
- Wiper seal for wicket / escape doors without threshold
- Centre joint seal for double-leaf doors (up to EI₂90)

Fitting possible with:

EI₂30

- Flush brickwork, thickness ≥ 175 mm according to EN 771-1
- Concrete, thickness ≥ 140 mm according to EN 1996-1-1
- Gas concrete, thickness ≥ 175 mm according to EN 771-4, strength class M4
- Sand-lime brickwork, thickness ≥ 145 mm, acc. to EN 771-2
- Timber partition wall, thickness ≥ 110 mm (up to max. LDB × LDH = 3500 × 3700)
- Steel girders: fire-proof encased steel components, at least REI 30

EI₂60

- Flush brickwork, thickness ≥ 175 mm according to EN 771-1
- Concrete, thickness ≥ 140 mm according to EN 1996-1-1
- Gas concrete, thickness ≥ 240 mm according to EN 771-4, strength class M4
- Steel girders: fire-proof encased steel components, at least REI 60

EI₂90

- Flush brickwork, thickness ≥ 175 mm according to EN 771-1
- Concrete, thickness ≥ 140 mm according to EN 1996-1-1
- Gas concrete, thickness ≥ 240 mm according to EN 771-4, strength class M4
- Steel girders: fire-proof encased steel components, at least REI 90

EI₂120

- Flush brickwork, thickness ≥ 240 mm according to EN 771-1
- Concrete, thickness ≥ 175 mm according to EN 1996-1-1
- Steel girders: fire-proof encased steel components, at least REI 120

Tested according to EN 13241, EN 16034

Fire and smoke-tight sliding doors made of stainless steel V2 A, 1.4301, K240 polished (see from page 22)

Protec EI₂30 EI₂60 EI₂90 EI₂120

The following components deviate from the specifications for steel doors and are made of stainless steel:

Door leaf:

- Stainless steel sheet V2 A, 1.4301, sheet thickness 0.8 mm, K240 polished, smooth
- > 9 m² with integrated guidance damper in V2 A

Door frame

- Closed, patented, cold-rolled, C-profile track made of stainless steel V2 A, 1.4301 and bolt plug-in connection for precise track joint
- Guiding profile, labyrinth profile and weight box made of stainless steel V2 A, 1.4301
- Three-way adjustable suspension brackets, made of stainless steel V2 A, 1.4301
- 2 roller pairs with ball-bearing per panel, made of stainless steel V2 A, 1.4301
- Track clad with cover sheet made of stainless steel V2 A, 1.4301
- Weight box on the side with internal closing weight, including anti-rotation safeguard with cover sheet made of stainless steel V2 A, 1.4301
- Internal closing weights made of steel, optionally in stainless steel V2 A, 1.4301
- Closing weight rope in stainless steel V2 A, 1.4301

High-speed multi-purpose sliding doors FST S made of steel and stainless steel

Product description for standard equipment

High-speed multi-purpose sliding doors FST S made of steel (see from page 52)

MZ

Door leaf:

- Flush, fully bonded tongue-and-groove element connection
- Galvanized sheet steel, sheet thickness 0.75 mm, standard surface finish Pearlgrain or smooth sheet steel
- Door galvanized as standard, without primer coating
- Element thickness / door leaf thickness: 72 mm
- Panel style connected using concealed, internal threaded rods
- Panel widths dependent on the door height: 230–1553 mm
- Max. individual panel weight 180 kg
- With honeycomb infill, optionally with mineral wool infill
- Without recessed handles
- Without lock
- Centring devices attached to the guiding profile

Door frame:

- Guiding profile with centring devices in the door leaf colour, without weight box
- Labyrinth profile with floor guide roller

Operator:

- Tormax IMotion 2401 or on-site alternative operator
- Opening speed 40–100 cm/s
- Closing speed 4–80 cm/s
- Aluminium track profile including cover
- Aluminium transom profile
- Operating unit including 10 m connection cable
- Optional safety sensors
- 2 pairs of plastic rollers with ball-bearing per panel

Fixing material

For fitting to steel, concrete, brickwork and gas concrete

Actuation:

- Via automatic operator

► **Note: Please contact the factory prior to ordering (product currently without CE marking)**

High-speed multi-purpose sliding doors FST made of stainless steel V2 A, 1.4301, K240 polished (see from page 52)



MZ

Door leaf:

- Flush, fully bonded tongue-and-groove element connection
- Stainless steel sheet V2 A, 1.4301, sheet thickness 0.8 mm, K240 polished, smooth
- Door without primer coating as standard
- Element thickness / door leaf thickness: 72 mm
- Panel style connected using concealed, internal threaded rods
- Panel widths dependent on door heights: 230–1555 mm
- Max. individual panel weight 180 kg
- With honeycomb infill, optionally with mineral wool infill
- Without recessed handles
- Without lock
- Centring devices attached to the guiding profile

Door frame:

- Guiding profile with centring devices in stainless steel V2 A, 1.4301, K240 polished, without weight box
- Labyrinth profile with floor guide roller in stainless steel V2 A, 1.4301, K240 polished

Operator:

- Tormax IMotion 2401 or on-site alternative operator
- Opening speed 40–100 cm/s
- Closing speed 4–80 cm/s
- Aluminium track profile including cover
- Aluminium transom profile
- Operating unit including 10 m connection cable
- Optional safety sensors
- 2 pairs of plastic rollers with ball-bearing per panel

Fixing material

For fitting to steel, concrete, brickwork and gas concrete

Actuation:

- Via automatic operator

► **Note: Please contact the factory prior to ordering (product currently without CE marking)**

High-speed fire sliding doors FST S 30 made of steel

Product description for standard equipment

High-speed steel fire sliding doors (see from page 54)

EL₂30

Door leaf:

- Flush, fully bonded tongue-and-groove element connection
- Galvanized sheet steel, sheet thickness 0.75 mm, standard surface finish Pearlgrain or smooth sheet steel
- Door galvanized as standard, without primer coating
- Element thickness / door leaf thickness: 72 mm
- Panel style connected using concealed, internal threaded rods
- Panel widths dependent on the door height: 230 – 1553 mm
- Max. individual panel weight 180 kg
- EI₂30 with fire-retarding insulation
- Without lock
- Without recessed handles
- Centring devices attached to the guiding profile

Door frame:

- Fire protection guiding profile in door colour / door leaf version
- Labyrinth profile with floor guide roller and fire protection properties
- Track labyrinth profile with fire protection properties in the door leaf colour

Operator:

- Tormax IMotion 2401
- Opening speed 40 – 100 cm/s
- Closing speed 4 – 80 cm/s
- Aluminium track profile including cover
- Aluminium transom profile
- Monitored battery unit
- Operating unit including 10 m connection cable
- Optional safety sensors
- 2 pairs of plastic rollers with ball-bearing per panel

Fixing material

Tested and approved for fitting in steel, concrete, brickwork and gas concrete

Actuation:

- Via automatic operator

Prepared for fitting to:

EI₂30

- Flush brickwork, thickness ≥ 175 mm according to DIN 1053-1
- Concrete, thickness ≥ 140 mm according to DIN 1045-1
- Gas concrete, thickness ≥ 240 mm according to DIN 4165-3, strength class 4*
- Gas concrete slabs, thickness ≥ 240 mm, reinforced, horizontal or vertical, according to DIN 4165, strength class 4.4 *
- Cladded steel columns min. F90 A, according to DIN 4102-4

* Only in combination with a steel concrete lintel acc. to the static proof. The lintel must extend beyond the door opening area in line with the track length. (Germany)

► **Note: Please contact the factory prior to ordering (product currently without CE marking)**

High-speed fire sliding doors made of stainless steel V2 A, 1.4301, K240 polished (see from page 54)



EL₂30

The following components deviate from the above details of the sheet steel version in stainless steel:

Door leaf:

- Stainless steel sheet V2 A, 1.4301, sheet thickness 0.8 mm, K240 polished, smooth

Door frame:

- Fire protection guiding profile in stainless steel V2 A, 1.4301
- Labyrinth profile with floor guide roller and fire protection properties in stainless steel V2 A, 1.4301
- Track labyrinth profile with fire protection properties in stainless steel V2 A, 1.4301

For vertical sliding doors FHT OD

Product description for standard equipment

Vertical fire sliding doors FHT OD made of steel with counter weight (see from page 60)

EL₃₀

EL₆₀

EL₉₀

Door leaf:

- Flush, fully bonded tongue-and-groove element connection
- Galvanized sheet steel, sheet thickness 0.75 mm
- Standard surface finish smooth sheet steel, galvanized
- Door galvanized as standard, without primer coating
- Element thickness/ door leaf thickness: 72 mm
- Panel style connected using concealed, internal threaded rods
- Panel widths dependent on the door height: 230 – 1553 mm
- Max. individual panel weight 180 kg
- EI₂₃₀: with fire-retarding insulation
- EI₂₆₀/EI₂₉₀: with fire-proof insulation
- 1 × limit switch as standard

Door frame:

- Weight box arrangement either right or left
- Square closing weights made of steel

Fixing material:

For fitting to steel, concrete and brickwork

Actuation:

- With spur gear motor as standard
Operator speed: 29 1/min, torque: 83 Nm, transmission: 49.00, 3-phase current motor IE2, operator shaft with feather key D: 20 × 40 mm, nominal power: 0.25 kW, brake CN06, 7 Nm 24 DC, colour RAL 7039 Quartz grey, motor connection: plug-in connection HAN10ES, voltage: 400 V DC, protection category: IP 54
- Hold-open device control FSA-FLEXControl or FAA-Plus
- Pre-assembled cable set and motor plug for connecting the motor to the hold-open device control, length: 15 m

Prepared for fitting to:

EI₂₃₀

- Flush brickwork, thickness ≥ 240 mm according to EN 771-1
- Concrete, thickness ≥ 175 mm according to EN 1996-1-1
- Steel girders: fire-proof encased steel components, at least REI 90

EI₂₆₀

- Flush brickwork, thickness ≥ 240 mm according to EN 771-1
- Concrete, thickness ≥ 175 mm according to EN 1996-1-1
- Steel girders: fire-proof encased steel components, at least REI 90

Tested according to EN 13241, EN 16034

Multi-purpose vertical sliding doors FHT OD made of steel with counter weight

MZ

Door leaf:

- Flush, fully bonded tongue-and-groove element connection
- Galvanized sheet steel, sheet thickness 0.75 mm, standard surface finish version smooth sheet steel
- Door leaf galvanized as standard, without primer coating
- Element thickness/ door leaf thickness 72 mm
- Panel style connected using concealed, internal threaded rods
- Panel widths dependent on the door height: 230 – 1553 mm
- Max. individual panel weight 180 kg
- With honeycomb infill, optionally with mineral wool infill

Door frame:

- Weight box arrangement either right or left
- Square closing weights made of steel

Fixing material

Tested and approved for fitting in steel, concrete, brickwork, gas concrete, lime sandstone and timber partition wall

Actuation:

- With spur gear motor as standard
Operator speed: 19 1/min, torque: 60 Nm, transmission 72.52, single-phase motor, operator shaft with feather key D: 20 × 40 mm
Nominal power: 0,18 kW, colour RAL 7031 Blue grey, voltage 230 V DC
Protection category: IP 54
- Control FSA-FLEXControl
optionally control FAA-Plus)
- Pre-assembled cable set and motor plug for connecting the motor to the hold-open device control, length: 15 m

Tested according to EN 13241, EN 16034

Hinged garage doors DFT made of steel

Product description for standard equipment

Multi-purpose hinged garage doors DFT made of steel (see from page 66)

MZ

Door leaf:

- Flush, fully bonded tongue-and-groove element connection
- Galvanized sheet steel, sheet thickness 0.75 mm, standard surface finish Pearlgain or smooth sheet steel
- Door leaf galvanized as standard, without primer coating
- Element thickness / door leaf thickness 72 mm
- Panel style connected using concealed, internal threaded rods
- Panel widths dependent on the door height: 230 – 1553 mm
- Max. individual panel weight 180 kg
- With mineral wool insulation
- As standard with mortice lock BKS 1206 with stainless steel lock cover and lock plate and up to 3 additional latches
- Black UPVC lever handle set, lever height 1050 mm above FFL

Door frame:

- Block frame 140 / 75 mm, 3-part with all-round lining groove on three sides, without insulation, sheet thickness 1.5 mm
- 2-way adjustable hinges, 260 mm, galvanized version
- Version per leaf:
Up to 4 hinges depending on static requirements
- Stainless steel lock plate V2 A, 1.4301 with scratch-protection properties
- Plug-and-screw fitting

Fixing material

For fitting to steel and concrete

Actuation:

- Manual door opening

Fixing material for multi-purpose hinged garage doors:

Prepared for fitting to:

- Flush brickwork
- Concrete
- Gas concrete
- Gas concrete slabs
- Steel columns

Performance values according to door product standard EN 13241-1

Fire-rated hinged garage doors DFT OD made of steel (see from page 67)

EL₂30

Door leaf:

- Flush, fully bonded tongue-and-groove element connection
- Galvanized sheet steel, sheet thickness 0.75 mm, standard surface finish Pearlgain or smooth sheet steel
- Door leaf galvanized as standard, without primer coating
- Element thickness / door leaf thickness 72 mm
- Panel style connected using concealed, internal threaded rods
- Panel widths dependent on the door height: 230 – 1553 mm
- Max. individual panel weight 180 kg
- As standard with mortice lock BKS 1206 with stainless steel lock cover and lock plate
- Black UPVC lever handle set, lever height 1050 mm above FFL
- Overhead door closer Tandem TS 4000, silver-coloured

Door frame:

- Block frame 140 / 75 mm, 3-part with all-round lining groove on three sides, with insulation, sheet thickness 1.5 mm
- 2-way adjustable hinges, 260 mm, galvanized version
- Version per leaf:
Up to 4 hinges depending on static requirements
- Stainless steel lock plate V2 A, 1.4301 with scratch-protection properties
- Plug-and-screw fitting

Fixing material

Tested and approved for fitting to concrete

Actuation:

- Manual door opening
- Door closing via overhead door closer on the hinge side

Fitting possible with:

EL₂30:

- Concrete, thickness ≥ 175 mm according to EN 1996-1-1
- Steel girders: fire-proof encased steel components, at least REI 30

Tested according to EN 13241, EN 16034

Textile curtains FlexFire E

Product description for standard equipment

Textile fire protection curtain FlexFire – E30 / E60 / E90 / E120 (see from page 68)

E30

E60

E90

E120

Textile curtain

0.5 mm thin, textile and V4A wire reinforced thermal E-glass filament fabric with silicone coating on both sides. Weight approx. 700 g/m²

Door frame

- Closed, two-part cold-rolled and galvanized side guide 115 × 70 mm, galvanized version, optionally coated
- Standard shaft housing galvanized in two versions (small, up to 3500 mm curtain height: 250 × 283 mm; large, from 3501 mm curtain height: 300 × 320 mm). Optionally coated.

Barrel

Barrel with integrated tubular drive in compact sheet steel housing

Control variations

FSA-FLEXControl (for DACH region) with DiBt approval

- Hold-open device control for holding open fire protection curtains
- Protection category IP 54, integrated acoustic signal
- Easy-to-use operating and display foil with integrated actuation button
- Connections for up to 20 smoke detectors
- Volt-free contacts for connection to an external fire alarm system
- Integrated horn
- Connecting option for additional button (button under glass or button "Open / Close")

FSA-FLEXeco Basis and FSA-FLEXeco Plus

- Control for holding open fire protection curtains
- Volt-free contacts for connection to an external fire alarm system
- Integrated control button "Open / Close"
- Protection category IP 54
- Evaluation of end-of-travel positions (Closed / Open)
- Integrated horn
- Visualisation of status display (Open / Closed / Fire alarm)
- Connecting option for external buzzer / flashing warning light
- Connecting option for additional button "Open / Close"
- Integrated batteries (2 ×) to hold open in the event of power failure (only for FSA-FLEXeco Plus)

Tubular drive unit

- Nominal torque 60 / 80 / 120 Nm
- Connecting voltage 230 V AC / 50 Hz
- Connected load 310 W
- Nominal power consumption: 1.4 A
- Protection category IP 44
- Emissions sound pressure level: max. 70 dB

Function description

- Opening and closing via control
- Tubular drive combined with integrated hold-open brake
- Closing without external power supply due to bottom strip weight

Fitting possible with:

- Flush brickwork, thickness ≥ 175 mm, strength class min. 12
- Concrete, thickness ≥ 140 mm, strength class min. C12 / 15
- Cladded steel supports REI 30 – REI 120
- Fire protection partition walls acc. to EN 1363-1, thickness ≥ 135 mm

Notice:

Fire protection curtains E30 / E60 / E90 / E120 also achieve protection class EW20

Tested according to EN 13241, EN 16034

Textile curtains FlexFire EW

Product description for standard equipment

Textile fire protection curtains FlexFire – EW30 / EW60 (see from page 70)

EW30

EW60

Textile curtain

1.5 mm thin, textile and V4A wire reinforced thermal E-glass filament fabric with silicone coating on both sides. Weight approx. 1700 g/m².

Door frame

- Closed, two-part cold-rolled and galvanized side guides 115 x 70 mm, galvanized version, optionally coated.
- Standard shaft housing galvanized in two versions (small, up to 3500 mm curtain height: 250 x 283 mm; large, from 3501 mm curtain height: 300 x 320 mm). Optionally coated.

Barrel

Barrel with integrated tubular drive in compact sheet steel housing.

Control variations

FSA-FLEXControl (for DACH region) with DiBt approval

- Hold-open device control for holding open fire protection curtains
- Protection category IP 54, integrated acoustic signal
- Easy-to-use operating and display foil with integrated actuation button
- Connections for up to 20 smoke detectors
- Volt-free contacts for connection to an external fire alarm system.
- Integrated horn
- Connecting option for additional button (button under glass or button "Open / Close")

FSA-FLEXeco Basis and FSA-FLEXeco Plus

- Control for holding open fire protection curtains
- Volt-free contacts for connection to an external fire alarm system.
- Integrated control button "Open / Close"
- Protection category IP 54
- Evaluation of end-of-travel positions (Closed / Open)
- Integrated horn
- Visualisation of status display (Open / Closed / Fire alarm)
- Connecting option for external buzzer / flashing warning light
- Connecting option for additional button "Open / Close"
- Integrated batteries (2 x) to hold open in the event of power failure (only for FSA-FLEXeco Plus)

Tubular drive unit

- Nominal torque 60 / 80 / 120 Nm
- Connecting voltage 230 V AC / 50 Hz
- Connected load 310 W
- Nominal power consumption: 1.4 A
- Protection category IP 44
- Emissions sound pressure level: max. 70 dB

Function description

- Opening and closing via control
- Tubular drive combined with integrated hold-open brake
- Closing without external power supply due to bottom strip weight

Fitting possible with:

- Flush brickwork, thickness ≥ 175 mm, strength class min. 12
- Concrete, thickness ≥ 140 mm, strength class min. C12 / 15
- Cladded steel supports REI 30 – REI 120
- Fire protection partition walls acc. to EN 1363-1, thickness ≥ 135 mm

Tested according to EN 13241, EN 16034

Textile curtains FlexFire EI

Product description for standard equipment

Textile fire protection curtains FlexFire – EW90 and EI₂30 (see from page 68)

EW90

EI₂30

Textile curtain

11 mm thin, black E-glass fibre with incorporated V4A wire and internal IsoTherm fleece with Intum EI coating on both sides, weight approx. 1950 g/m².

Door frame

- Closed, two-part cold-rolled and galvanized side guide 143 × 164 mm, galvanized version, optionally coated
- Shaft housing galvanized in two versions 510 mm × 595 mm as standard; optionally coated.

Barrel

Barrel with integrated tubular drive in compact sheet steel housing

Control variations

FSA-FLEXControl (for DACH region) with DiBt approval

- Hold-open device control for holding open fire protection curtains
- Protection category IP 54, integrated acoustic signal
- Easy-to-use operating and display foil with integrated actuation button
- Connections for up to 20 smoke detectors
- Volt-free contacts for connection to an external fire alarm system
- Integrated horn
- Connecting option for additional button (button under glass or button "Open/Close")

FSA-FLEXeco Basis and FSA-FLEXeco Plus

- Control for holding open fire protection curtains
- Volt-free contacts for connection to an external fire alarm system
- Integrated control button "Open/Close"
- Protection category IP 54
- Evaluation of end-of-travel positions (Closed/ Open)
- Integrated horn
- Visualisation of status display (Open/ Closed/ Fire alarm)
- Connecting option for external buzzer/ flashing warning light
- Connecting option for additional button "Open/Close"
- Integrated batteries (2 ×) to hold open in the event of power failure (only for FSA-FLEXeco Plus)

Tubular drive unit

- Nominal torque 60/ 80/ 120 Nm
- Connecting voltage 230 V AC/ 50 Hz
- Connected load 310 W
- Nominal power consumption: 1.4 A
- Protection category IP 44
- Emissions sound pressure level: max. 70 dB

Function description

- Opening and closing via control
- Tubular drive combined with integrated hold-open brake
- Closing without external power supply due to bottom strip weight

Fitting possible with:

- Flush brickwork, thickness ≥ 175 mm, strength class min. 12
- Concrete, thickness ≥ 140 mm, strength class min. C12/ 15
- Cladded steel supports REI 30–REI 120
- Fire protection partition walls acc. to EN 1363-1, thickness ≥ 135 mm

Tested according to EN 13241, EN 16034

Notes and sketches

Multi-purpose sliding door FST MZ-1 OD

Single-leaf



		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear passage height	13000	Greater widths on request (for calculation, see page 96)																	
	6000	4722	5022	5324	5625	5929	6232	6531	6836	7136	7438	7743	8040	8344	8759	9169	9586	9996	
	5750	868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302	1364	1364	
	5500	4561	4850	5142	5433	5723	6012	6301	6593	6882	7173	7463	7754	8045	8442	8837	9232	9627	
	5250	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302	1364	
	5000	4401	4681	4960	5237	5516	5794	6073	6352	6631	6910	7191	7468	7745	8121	8503	8881	9261	
	4750	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302	
	4500	4241	4510	4777	5040	5309	5578	5846	6108	6376	6644	6913	7176	7445	7811	8172	8529	8890	
	4250	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	
	4000	4085	4334	4594	4846	5102	5357	5612	5868	6126	6378	6635	6890	7146	7488	7834	8178	8523	
	3750	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240	
	3500	3923	4165	4408	4652	4900	5140	5386	5629	5870	6114	6358	6602	6846	7173	7501	7827	8153	
	3250	744	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240	
	3000	3763	3995	4227	4458	4691	4922	5154	5387	5617	5851	6082	6315	6549	6856	7165	7473	7785	
	2750	682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178	
	2500	3605	3822	4042	4262	4484	4705	4926	5145	5368	5587	5805	6027	6248	6542	6832	7122	7419	
	2250	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	
	2000	3443	3648	3859	4069	4278	4488	4696	4905	5113	5319	5530	5739	5946	6223	6496	6771	7047	
	620	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116		
	3402	3597	3791	3988	4181	4379	4575	4768	4965	5161	5357	5551	5747	6013	6279	6543	6809		
	620	620	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116		
	3355	3540	3721	3904	4088	4268	4452	4634	4816	5000	5182	5368	5548	5803	6059	6315	6565		
	558	620	620	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054		
	3316	3484	3652	3822	3992	4162	4329	4500	4670	4840	5008	5179	5349	5592	5839	6082	6325		
	558	558	620	620	682	682	744	744	806	806	868	868	930	930	992	992	1054		
	3270	3427	3581	3741	3897	4051	4209	4366	4523	4679	4836	4991	5150	5381	5615	5852	6084		
	496	558	558	620	620	682	682	744	744	806	806	868	868	930	930	992	992		
	3227	3373	3514	3658	3804	3946	4088	4233	4376	4519	4661	4804	4946	5174	5396	5618	5847		
	496	496	558	558	620	620	682	682	744	744	806	806	868	868	930	930	992		
	3185	3317	3445	3574	3705	3837	3964	4098	4227	4355	4488	4619	4748	4963	5177	5391	5607		
	434	496	496	558	558	620	620	682	682	744	744	806	806	868	868	930	930		
	3143	3257	3376	3493	3613	3726	3845	3962	4082	4196	4315	4431	4547	4752	4959	5159	5367		
	434	434	496	496	558	558	620	620	682	682	744	744	806	806	868	868	930		
	3101	3203	3311	3412	3514	3620	3724	3829	3932	4034	4138	4243	4348	4542	4735	4929	5120		
	372	434	434	496	496	558	558	620	620	682	682	744	744	806	806	868	868		
		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
		Fitting area for wicket door without threshold																	
		Clear passage width																	

Fitting area for wicket door **without** threshold

Clear passage width

Equipment for external doors						Surcharge €
Track cover for external doors (galvanized, coated in the colour of the door leaf), up to 6000 mm width						Each 399
Locking hold-open device (article number 2036584)						Each 84
Door leaf infill with mineral wool insulation instead of honeycomb infill						Per m ² 91
Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed Grey white RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

Steel multi-purpose sliding door

Standard equipment:

- Product description for standard equipment, see page 4

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Glazing see page 80
- Recess and ceiling flaps from page 92

- Door leaf weight with honeycomb infill: 30 kg/m²
- Door leaf weight with mineral wool insulation: 40 kg/m²
- Individual door set weight max. 180 kg
- Exclusive Pearlgrain surface finish

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height
Without lintel: Clear passage height = MLH = ceiling height

5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	15000	
Greater widths on request (for calculation, see page 96)																13000
	10413	10824	11238	11652	12316	12978	13643	14306	14971	15635	16300	16963	17625	18291		6000
	1426	1426	1488	1488	1550	1550	1612	1612								5750
	10025	10422	10816	11213	11820	12428	13034	13641	14244	14854	15459	16065	16672	17281		5500
	1364	1426	1426	1488	1488	1550	1550	1612								5250
	9641	10019	10396	10776	11326	11877	12423	12972	13520	14070	14621	15169	15716	16267		5000
	1364	1364	1426	1426	1488	1488	1550	1550	12797	13286	13781	14272	14766	15256		4750
	9252	9613	9974	10339	10829	11322	11815	12307								4500
	1302	1364	1364	1426	1426	1488	1488	1550	12070	12505	12942	13374	13809	14244		4250
	8864	9210	9556	9895	10335	10768	11203	11639								4000
	1302	1302	1364	1364	1426	1426	1488	1488	11346	11723	12100	12478	12853	13233		3750
	8481	8806	9134	9462	9835	10216	10593	10970								3500
	1240	1302	1302	1364	1364	1426	1426	1488	10622	10940	11263	11580	11900	12218		3250
	8095	8404	8710	9022	9343	9659	9983	10300								3000
	1240	1240	1302	1302	1364	1364	1426	1426	9894	10157	10422	10684	10945	11209		2750
	7708	7998	8293	8585	8848	9111	9372	9637								2500
	1178	1240	1240	1302	1302	1364	1364	1426	9170	9376	9582	9788	9991	10197		2250
	7322	7597	7872	8147	8352	8555	8762	8968								2000
	1178	1178	1240	1240	1302	1302	1364	1364	8906	9116	9324	9530	9740	9948		
	7072	7337	7604	7864	8074	8283	8492	8698								
	1116	1178	1178	1240	1240	1302	1302	1364	8644	8854	9064	9276	9488	9699		
	6825	7078	7330	7586	7795	8008	8220	8431								
	1116	1116	1178	1178	1240	1240	1302	1302	8377	8591	8806	9022	9237	9451		
	6568	6815	7060	7302	7518	7734	7946	8166								
	1054	1116	1116	1178	1178	1240	1240	1302	8114	8329	8548	8766	8983	9201		
	6320	6556	6788	7022	7240	7459	7679	7899								
	1054	1054	1116	1116	1178	1178	1240	1240	7847	8069	8291	8512	8732	8953		
	6072	6293	6521	6742	6964	7183	7406	7626								
	992	1054	1054	1116	1116	1178	1178	1240	7585	7812	8033	8260	8481	8704		
	5819	6032	6248	6462	6685	6910	7135	7359								
	992	992	1054	1054	1116	1116	1178	1178	7320	7547	7774	8001	8230	8458		
	5568	5773	5978	6180	6409	6637	6864	7090								
	930	992	992	1054	1054	1116	1116	1178	7053	7286	7516	7748	7978	8208		
	5316	5512	5706	5899	6134	6362	6593	6825								
	930	930	992	992	1054	1054	1116	1116								
Greater heights on request (for calculation, see page 96)																2100
Clear passage height																
Fitting area for wicket door without threshold																
5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	15000	
Fitting area for wicket door without threshold																
Clear passage width																

Possible size range FST MZ-1 OD as an external door

With track cover and mineral wool insulation instead of honeycomb infill (note the surcharge). Exclusively available powder-coated in the RAL colours RAL 7035, RAL 9002, RAL 9006, RAL 9007, RAL 9010 and RAL 9016 (galvanized, not available without coating). Further light colours on request. Max. size LD 6000 x 6000 mm

Price	Smoke protection function S₂₀₀ surcharge Smoke protection only available without wicket door.	Price	Smoke protection function S₂₀₀ surcharge Smoke protection possible with wicket door, if required. Surcharge per wicket door €261 ► Max. joint length 27 m
Notice: For versions with smoke protection, the door leaf must have mineral wool insulation. Note the surcharge.			

Door version with all-round wiper seal on 4 sides	See page 82
Wicket / escape door without threshold and equipment	See page 76
Flush-stopping multi-purpose sliding door version (without unattractive guiding profile)	See page 79
Further optional extras	See page 76 – 96

Multi-purpose sliding door FST MZ-2 OD

Double-leaf, divided symmetrically



		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500
Clear passage height	13000	Greater widths on request (for calculation, see page 96)														
	6000	6734	7053	7374	7699	8020	8339	8662	8982	9304	9795	10284	10773	11267	11757	12247
	5750	1364	1426	1426	1488	1488	1550	1550	1612	1612	1674	1674	1736	1736	1798	1798
	5500	6637	6933	7228	7519	7817	8111	8405	8699	8994	9482	9967	10454	10942	11428	11915
	5250	1364	1364	1426	1426	1488	1488	1550	1550	1612	1612	1674	1674	1736	1736	1798
	5000	6542	6810	7078	7346	7614	7880	8148	8416	8683	9168	9652	10138	10620	11103	11585
	4750	1302	1364	1364	1426	1426	1488	1488	1550	1550	1612	1612	1674	1674	1736	1736
	4500	6444	6685	6929	7167	7409	7648	7893	8133	8374	8854	9334	9818	10298	10778	11259
	4250	1240	1240	1302	1302	1364	1364	1426	1426	1488	1488	1550	1550	1612	1612	1674
	4000	6352	6563	6777	6993	7207	7421	7635	7847	8063	8539	9017	9496	9974	10452	10934
	3750	1178	1240	1240	1302	1302	1364	1364	1426	1426	1488	1488	1550	1550	1612	1612
	3500	6253	6440	6630	6815	7003	7192	7374	7564	7753	8228	8700	9178	9653	10128	10601
	3250	1178	1178	1240	1240	1302	1302	1364	1364	1426	1426	1488	1488	1550	1550	1612
	3000	6157	6319	6479	6639	6800	6960	7121	7284	7442	7914	8386	8859	9330	9802	10272
	2750	1116	1178	1178	1240	1240	1302	1302	1364	1364	1426	1426	1488	1488	1550	1550
	2500	6062	6196	6330	6462	6597	6731	6864	6998	7134	7602	8069	8538	9007	9474	9947
	2250	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302	1364	1364	1426	1426	1488
	2000	5966	6072	6178	6288	6393	6500	6609	6714	6825	7290	7754	8218	8684	9153	9616
	1750	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302	1364	1364	1426	1426
	1500	5872	5975	6078	6178	6282	6381	6485	6588	6688	7109	7524	7944	8364	8778	9200
	1250	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302	1364	1364	1426
	1000	5784	5879	5975	6072	6169	6264	6362	6459	6556	6929	7299	7671	8038	8412	8782
	750	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302	1364	1364
	500	5691	5784	5872	5966	6058	6149	6239	6332	6424	6748	7072	7393	7715	8040	8368
	250	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302
	0	5600	5685	5773	5858	5943	6030	6120	6203	6289	6565	6842	7119	7395	7673	7947
	-250	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240
	-500	5507	5587	5670	5752	5830	5913	5995	6077	6156	6384	6615	6843	7074	7302	7530
	-750	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240
	-1000	5416	5490	5568	5645	5721	5795	5870	5946	6021	6206	6386	6567	6753	6933	7115
	-1250	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178
	-1500	5324	5395	5465	5537	5608	5677	5750	5819	5889	6025	6160	6293	6430	6563	6698
	-1750	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116
	-2000	5232	5300	5367	5430	5494	5562	5625	5692	5757	5847	5934	6017	6104	6196	6284
	-2250	620	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054

Equipment for external doors						Surcharge €
Track cover for external doors (galvanized, coated in the colour of the door leaf), up to 6000 mm width						Each 399
Locking hold-open device (article number 2036584)						Each 84
Door leaf infill with mineral wool insulation instead of honeycomb infill						Per m ² 91
Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed Grey white RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

Steel multi-purpose sliding door

Standard equipment:

- Product description for standard equipment, see page 4

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Glazing see page 80
- Recess and ceiling flaps from page 92

- Door leaf weight with honeycomb infill: 30 kg/m²
- Door leaf weight with mineral wool insulation: 40 kg/m²
- Individual door set weight max. 180 kg
- Exclusive Pearlgrain surface finish

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height
Without lintel: Clear passage height = MLH = ceiling height

5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	15000	
Greater widths on request (for calculation, see page 96)													13000	Greater heights on request (for calculation, see page 96)
	12735	13226	13518	13812	14105	14400	14693	14987	15279	15571	15865	16159	6000	
	1860	1860	1922	1922	1984	1984							5750	
	12403	12889	13158	13425	13693	13957	14225	14492	14762	15028	15294	15561	5500	
	1798	1860	1860	1922	1922	1984							5250	
	12070	12557	12797	13038	13276	13518	13759	14002	14240	14482	14722	14962	5000	
	1798	1798	1860	1860	1922	1922							4750	
	11739	12218	12436	12648	12865	13078	13292	13508	13723	13937	14151	14363	4500	
	1674	1736	1736	1798	1798	1860							4250	
	11411	11887	12073	12264	12451	12637	12828	13016	13203	13389	13579	13767	4000	
	1674	1674	1736	1736	1798	1798							3750	
	11076	11553	11714	11877	12036	12199	12361	12523	12682	12847	13009	13169	3500	
	1612	1674	1674	1736	1736	1798							3250	
	10744	11216	11351	11489	11624	11759	11894	12031	12165	12300	12438	12570	3000	
	1612	1612	1674	1674	1736	1736							2750	
	10416	10881	10994	11102	11211	11321	11425	11537	11645	11758	11863	11972	2500	
	1488	1550	1550	1612	1612	1674							2250	
	10081	10551	10630	10714	10798	10878	10960	11046	11128	11211	11294	11376	2100	
	1488	1488	1550	1550	1612	1612							2000	
	9617	10035	10132	10231	10328	10426	10525	10623	10721	10818	10914	11016		Fitting area for wicket door without threshold
	1426	1488	1488	1550	1550	1612								
	9154	9525	9641	9750	9865	9978	10087	10203	10316	10428	10540	10655		
	1426	1426	1488	1488	1550	1550								
	8690	9013	9142	9271	9396	9525	9654	9783	9912	10037	10165	10295		
	1302	1364	1364	1426	1426	1488								
	8226	8502	8646	8787	8933	9075	9217	9361	9505	9649	9792	9933		
	1302	1302	1364	1364	1426	1426								
	7761	7991	8148	8307	8465	8622	8781	8941	9098	9257	9413	9574		
	1240	1302	1302	1364	1364	1426								
	7297	7479	7652	7826	7998	8174	8344	8520	8693	8864	9040	9213		
	1240	1240	1302	1302	1364	1364								
	6833	6967	7153	7346	7532	7723	7909	8097	8290	8474	8665	8854		
	1116	1178	1178	1240	1240	1302								
	6371	6457	6660	6863	7067	7271	7473	7681	7882	8087	8290	8494		
	1116	1116	1178	1178	1240	1240								
5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	15000	
Fitting area for wicket door without threshold														
Clear passage width														

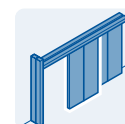
Possible size range FST MZ-2 OD as an external door

With track cover and mineral wool insulation instead of honeycomb infill (note the surcharge!). Exclusively available powder-coated in the RAL colours RAL 7035 RAL 9002, RAL 9006, RAL 9007, RAL 9010 and RAL 9016 (galvanized, not available without coating). Further light colours on request.
Max. size LD 6000 x 6000 mm

Price	Smoke protection function S_{200} surcharge Smoke protection only available without wicket door.	Price	Smoke protection function S_{200} surcharge Smoke protection possible with wicket door, if required. Surcharge per wicket door €261 ► Max. joint length 27 m
Door version with all-round wiper seal on 4 sides			
Wicket / escape door without threshold and equipment			See page 82
Further optional extras			See page 76
			See page 76 – 96

Telescopic multi-purpose sliding door FST MZ-1 T2 OD

Single-leaf, 2-part (T2)



		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500
		Greater widths on request (for calculation, see page 96)														
Clear passage height	9000	9100	9535	9970	10405	10839	11273	11706	12139	12575	13238	13901	14562	15225	15887	16548
	8750	9018	9453	9878	10312	10744	11174	11604	12031	12466	13120	13779	14433	15090	15748	16403
	8500	8921	9350	9771	10199	10627	11052	11478	11900	12331	12977	13630	14276	14926	15577	16224
	8250	8843	9265	9685	10105	10534	10953	11373	11796	12220	12863	13508	14150	14793	15439	16081
	8000	8747	9164	9581	9995	10419	10834	11249	11667	12088	12723	13360	13997	14633	15271	15906
	7750	8670	9081	9496	9908	10327	10739	11150	11564	11981	12610	13243	13871	14501	15136	15764
	7500	8576	8983	9392	9800	10215	10622	11029	11438	11851	12473	13099	13720	14344	14971	15592
	7250	8498	8903	9309	9714	10121	10529	10933	11337	11744	12358	12981	13598	14218	14840	15455
	7000	8406	8806	9208	9608	10011	10413	10814	11213	11616	12224	12841	13450	14064	14679	15287
	6750	8329	8726	9126	9525	9922	10319	10716	11114	11512	12116	12726	13332	13940	14545	15154
	6500	8239	8631	9028	9421	9814	10207	10599	10994	11387	11985	12588	13187	13788	14388	14989
	6250	8166	8557	8947	9338	9725	10117	10506	10897	11289	11882	12475	13069	13666	14260	14855
	6000	8078	8463	8849	9236	9619	10006	10391	10778	11167	11753	12338	12927	13517	14105	14693
	5750	7965	8315	8669	9023	9376	9732	10082	10438	10792	11376	11962	12545	13127	13716	14299
	5500	7847	8172	8492	8813	9134	9454	9777	10097	10419	10999	11580	12163	12742	13323	13901
	5250	7731	8022	8311	8601	8890	9180	9468	9757	10045	10623	11202	11778	12356	12931	13509
	5000	7619	7878	8132	8388	8646	8904	9158	9415	9674	10248	10820	11394	11969	12543	13116
	4750	7503	7725	7952	8177	8399	8626	8853	9077	9301	9872	10442	11012	11580	12152	12722
	4500	7388	7581	7774	7967	8157	8352	8541	8735	8930	9494	10062	10628	11195	11760	12326
	4250	7272	7433	7592	7754	7914	8075	8236	8394	8556	9119	9680	10246	10809	11368	11933
	4000	7155	7286	7411	7543	7672	7799	7926	8055	8184	8741	9303	9862	10421	10979	11538
	3750	7047	7168	7292	7411	7537	7658	7781	7903	8025	8525	9033	9530	10035	10535	11037
	3500	6936	7052	7168	7286	7403	7517	7633	7750	7864	8310	8759	9201	9649	10090	10536
	3250	6828	6936	7047	7155	7269	7374	7487	7596	7704	8095	8483	8873	9261	9649	10037
	3000	6717	6825	6925	7027	7134	7234	7342	7442	7547	7879	8209	8540	8876	9205	9535
	2750	6609	6706	6802	6900	6998	7093	7193	7290	7387	7662	7936	8213	8489	8762	9038
	2500	6496	6589	6680	6770	6860	6952	7046	7135	7228	7444	7664	7882	8099	8319	8536
	2250	6386	6473	6557	6642	6726	6812	6898	6981	7067	7229	7389	7550	7712	7878	8034
	2000	6279	6357	6436	6515	6593	6672	6750	6830	6908	7012	7116	7222	7325	7433	7537
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500
		Fitting area for wicket door without threshold														
		Clear passage width														

Colour coating (for details, see page 74)

Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed Grey white RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

2-part telescopic steel multi-purpose sliding door

Standard equipment:

- Product description for standard equipment, see page 4

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Glazing see page 80
- Recess and ceiling flaps from page 92

- ▶ Door leaf weight with honeycomb infill: 30 kg/m²
- ▶ Door leaf weight with mineral wool insulation: 40 kg/m²
- ▶ Individual door set weight max. 180 kg
- ▶ Exclusive Pearlgrain surface finish

Calculation basis for direct fitting to the ceiling:

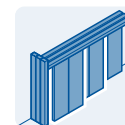
With lintel: clear passage height + lintel = MLH = ceiling height
Without lintel: Clear passage height = MLH = ceiling height

5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	15000	
Greater widths on request (for calculation, see page 96)														
	17213	17874	18271	18668	19065	19461	19858	20255	20647	21046	21443	21836		
	17059	17717	18109	18503	18895	19286	19680	20076	20467	20859	21255	21644		
	16873	17524	17913	18302	18689	19076	19466	19858	20245	20633	21024	21408		
	16726	17366	17754	18140	18523	18908	19293	19680	20065	20449	20837	21220		
	16545	17177	17561	17943	18322	18703	19083	19466	19847	20227	20611	20989		
	16399	17026	17404	17786	18161	18538	18915	19295	19670	20051	20428	20801		
	16221	16841	17214	17593	17964	18337	18709	19086	19456	19832	20206	20575		
	16077	16692	17061	17433	17804	18175	18544	18917	19284	19657	20028	20394		
	15902	16510	16875	17243	17610	17977	18343	18710	19074	19443	19809	20172		
	15758	16364	16729	17091	17452	17816	18181	18544	18905	19271	19635	19994		
	15587	16186	16547	16905	17262	17623	17983	18343	18699	19061	19421	19777		
	15449	16042	16400	16755	17112	17468	17824	18182	18533	18890	19247	19602		
	15281	15867	16222	16572	16927	17278	17629	17985	18331	18685	19038	19389		
	14882	15469	15787	16106	16428	16748	17069	17391	17712	18029	18354	18672		
	14485	15067	15355	15641	15932	16222	16510	16800	17088	17378	17667	17954		
	14089	14663	14921	15178	15437	15695	15950	16208	16464	16722	16980	17238		
	13689	14262	14488	14715	14939	15163	15391	15618	15842	16068	16294	16520		
	13291	13860	14056	14248	14442	14637	14834	15026	15219	15415	15608	15800		
	12892	13461	13622	13785	13946	14107	14272	14433	14597	14762	14921	15086		
	12495	13059	13188	13320	13450	13580	13714	13847	13971	14105	14235	14364		
	12096	12656	12758	12853	12952	13051	13153	13251	13350	13450	13549	13651		
	11540	12043	12161	12275	12395	12512	12631	12745	12865	12981	13100	13217		
	10984	11427	11564	11701	11833	11971	12109	12244	12377	12514	12648	12784		
	10424	10815	10968	11123	11275	11428	11582	11736	11889	12046	12198	12352		
	9871	10202	10371	10545	10717	10889	11061	11231	11408	11575	11748	11918		
	9313	9587	9777	9967	10157	10348	10536	10728	10914	11109	11298	11487		
	8757	8973	9183	9390	9597	9805	10015	10221	10432	10638	10846	11053		
	8198	8361	8586	8813	9039	9263	9490	9717	9943	10169	10396	10622		
	7641	7748	7991	8235	8477	8725	8969	9211	9456	9699	9947	10189		
5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	15000	
Fitting area for wicket door without threshold														
Clear passage width														
Greater heights on request (for calculation, see page 96)														
	9000	8750	8500	8250	8000	7750	7500	7250	7000	6750	6500	6250	6000	5750
	5500	5250	5000	4750	4500	4250	4000	3750	3500	3250	3000	2750	2500	2250
	2000	2100												
	Clear passage height													
	Fitting area for wicket door without threshold													

Door leaf surface finishes		Surcharge €
Pearlgrain, galvanized (standard)		No surcharge
Smooth sheet steel, galvanized		Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth		Table price × 2.5
Door leaf infill with mineral wool insulation instead of honeycomb infill		Per m ² 91
Track panel		Price reduction €
Omission of track panel		Price reduction -237
Wicket / escape door without threshold and equipment		See page 76
Flush-stopping multi-purpose sliding door version (without unattractive guiding profile)		See page 79
Further optional extras		See page 76 – 96

Telescopic multi-purpose sliding door FST MZ-1 T3 OD

Single-leaf, 3-part (T3)



		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500
Clear passage height	12000	Greater widths on request (for calculation, see page 96)														
	9000	11373	11919	12464	13003	13550	14090	14631	15174	15720	16547	17378	18201	19033	19860	20685
	8750	11273	11814	12348	12886	13427	13965	14501	15040	15580	16400	17225	18039	18863	19682	20503
	8500	11150	11686	12214	12745	13281	13813	14344	14876	15411	16222	17037	17842	18658	19468	20279
	8250	11054	11579	12105	12632	13167	13692	14216	14742	15274	16078	16886	17686	18490	19296	20101
	8000	10934	11453	11974	12495	13023	13543	14061	14581	15108	15903	16702	17494	18289	19087	19882
	7750	10834	11352	11867	12384	12907	13422	13936	14454	14971	15761	16553	17339	18127	18918	19704
	7500	10717	11228	11738	12249	12766	13276	13785	14297	14809	15589	16373	17150	17930	18712	19489
	7250	10623	11129	11634	12142	12652	13159	13662	14171	14679	15449	16227	16997	17772	18546	19318
	7000	10507	11007	11508	12010	12514	13016	13513	14017	14519	15281	16051	16811	17579	18344	19108
	6750	10412	10909	11410	11905	12404	12900	13395	13892	14390	15147	15906	16663	17425	18182	18940
	6500	10299	10790	11285	11775	12269	12759	13249	13741	14234	14982	15733	16483	17235	17985	18734
	6250	10208	10698	11182	11670	12158	12647	13130	13619	14107	14852	15593	16336	17083	17825	18567
	6000	10097	10581	11061	11543	12026	12508	12988	13471	13953	14690	15423	16159	16897	17631	18365
	5750	9954	10392	10834	11276	11719	12162	12602	13044	13488	14218	14949	15679	16410	17144	17872
	5500	9808	10211	10613	11015	11416	11817	12220	12618	13023	13747	14476	15204	15926	16654	17378
	5250	9664	10026	10387	10748	11113	11474	11833	12193	12558	13277	14002	14721	15443	16164	16887
	5000	9523	9845	10163	10483	10804	11128	11446	11768	12091	12807	13525	14242	14959	15676	16394
	4750	9377	9654	9942	10220	10500	10784	11063	11346	11628	12338	13051	13766	14476	15188	15902
	4500	9234	9474	9716	9956	10197	10438	10677	10918	11163	11867	12575	13282	13994	14699	15405
	4250	9091	9288	9489	9690	9891	10092	10295	10495	10696	11398	12099	12804	13508	14210	14916
	4000	8945	9106	9265	9431	9590	9746	9907	10068	10230	10926	11629	12327	13024	13720	14423
	3750	8806	8963	9116	9265	9421	9572	9726	9877	10034	10658	11288	11912	12543	13167	13796
	3500	8670	8816	8963	9106	9252	9395	9539	9685	9830	10386	10945	11501	12059	12614	13169
	3250	8534	8670	8806	8945	9085	9217	9359	9494	9629	10119	10602	11090	11574	12059	12545
	3000	8394	8527	8656	8783	8915	9041	9175	9301	9433	9848	10261	10676	11092	11505	11919
	2750	8260	8380	8503	8625	8747	8869	8987	9111	9231	9576	9918	10264	10609	10953	11295
	2500	8121	8235	8349	8462	8577	8690	8804	8918	9034	9303	9581	9850	10125	10400	10669
	2250	7986	8091	8197	8302	8407	8513	8619	8727	8832	9035	9236	9438	9641	9845	10042
	2000	7847	7944	8041	8140	8239	8339	8436	8535	8631	8764	8893	9025	9157	9288	9421
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500
		Clear passage width														

Colour coating (for details, see page 74)

Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed Grey white RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

3-part telescopic steel multi-purpose sliding door

Standard equipment:

- Product description for standard equipment, see page 4

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Glazing see page 80
- Recess and ceiling flaps from page 92

- ▶ Door leaf weight with honeycomb infill: 30 kg/m²
- ▶ Door leaf weight with mineral wool insulation: 40 kg/m²
- ▶ Individual door set weight max. 180 kg
- ▶ Exclusive Pearlgrain surface finish

Calculation basis for direct fitting to the ceiling:

With lintel: Clear passage height + lintel = MLH = ceiling height
Without lintel: Clear passage height = MLH = ceiling height

5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	15000
Greater widths on request (for calculation, see page 96)													12000
	21515	22342	22837	23335	23828	24324	24819	25318	25809	26309	26803	27295	9000
	21328	22144	22634	23128	23619	24108	24601	25093	25581	26075	26568	27055	8750
	21096	21903	22388	22877	23362	23846	24334	24819	25303	25792	26278	26761	8500
	20907	21708	22193	22674	23154	23634	24117	24601	25081	25563	26046	26525	8250
	20679	21471	21950	22428	22902	23377	23854	24334	24808	25284	25762	26237	8000
	20497	21280	21753	22229	22700	23173	23643	24120	24585	25062	25536	26004	7750
	20274	21049	21516	21987	22454	22921	23385	23857	24318	24790	25258	25720	7500
	20096	20864	21329	21792	22255	22717	23181	23646	24104	24571	25033	25492	7250
	19876	20637	21097	21555	22012	22470	22929	23389	23842	24303	24761	25215	7000
	19697	20454	20910	21364	21817	22269	22726	23181	23631	24086	24539	24992	6750
	19483	20232	20683	21132	21579	22027	22479	22929	23374	23824	24272	24721	6500
	19310	20053	20501	20944	21388	21833	22279	22728	23166	23611	24057	24500	6250
	19100	19834	20277	20717	21155	21595	22036	22480	22914	23354	23796	24234	6000
	18602	19334	19734	20133	20535	20933	21337	21736	22139	22534	22940	23340	5750
	18106	18832	19193	19550	19911	20277	20637	20996	21358	21722	22082	22440	5500
	17609	18328	18653	18972	19293	19616	19937	20257	20580	20902	21225	21545	5250
	17108	17830	18109	18393	18673	18954	19236	19522	19803	20082	20366	20647	5000
	16613	17325	17569	17811	18050	18296	18540	18781	19023	19270	19510	19751	4750
	16117	16826	17025	17229	17433	17634	17840	18043	18244	18450	18653	18855	4500
	15619	16321	16485	16649	16811	16977	17141	17305	17462	17631	17791	17956	4250
	15121	15823	15945	16066	16189	16314	16440	16563	16686	16811	16934	17062	4000
	14425	15051	15200	15344	15491	15640	15786	15932	16079	16226	16375	16520	3750
	13730	14283	14453	14623	14793	14963	15133	15304	15472	15641	15807	15979	3500
	13032	13517	13709	13900	14094	14285	14477	14669	14863	15057	15246	15439	3250
	12336	12750	12965	13183	13395	13610	13826	14038	14256	14469	14685	14896	3000
	11641	11981	12220	12456	12696	12931	13169	13409	13643	13886	14121	14358	2750
	10943	11214	11479	11736	11997	12255	12517	12775	13038	13296	13556	13814	2500
	10246	10448	10732	11015	11298	11579	11861	12145	12428	12710	12995	13276	2250
	9552	9683	9985	10294	10596	10903	11209	11513	11819	12124	12430	12735	2000
5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	15000
Fitting area for wicket door without threshold													2100
Clear passage width													
Greater heights on request (for calculation, see page 96)													
Clear passage height													
Fitting area for wicket door without threshold													

Door leaf surface finishes		Surcharge €
Pearlgrain, galvanized (standard)		No surcharge
Smooth sheet steel, galvanized	Surcharge flat rate	143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth	Table price × 2.5	
Door leaf infill with mineral wool insulation instead of honeycomb infill	Per m ²	91
Track panel		Price reduction €
Omission of track panel	Price reduction	-237
Wicket / escape door without threshold and equipment		See page 76
Flush-stopping multi-purpose sliding door version (without unattractive guiding profile)		See page 79
Further optional extras		See page 76 – 96

Fire sliding door FST 30-1 OD

Single-leaf



EL₂30

		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear passage height	8750	See the product configurator for greater widths (max. width 12000 mm)																
	6000	7744	8236	8731	9229	9725	10219	10712	11209	11703	12198	12694	13189	13685	14363	15041	15719	16397
	5750	7479	7957	8431	8909	9383	9862	10338	10814	11289	11765	12243	12717	13192	13847	14495	15145	15793
	5500	7220	7677	8132	8587	9046	9503	9961	10417	10875	11330	11790	12247	12702	13323	13946	14566	15188
	5250	6955	7393	7832	8270	8706	9146	9585	10024	10462	10899	11334	11774	12212	12802	13398	13989	14581
	5000	6692	7111	7529	7946	8370	8786	9205	9625	10044	10464	10881	11300	11722	12281	12851	13415	13979
	4750	6432	6830	7232	7627	8030	8430	8828	9230	9628	10032	10428	10829	11227	11765	12301	12837	13373
	4500	6169	6551	6929	7312	7692	8070	8453	8832	9213	9595	9974	10355	10739	11246	11753	12260	12768
	4250	5907	6266	6630	6991	7352	7713	8076	8437	8799	9163	9524	9885	10246	10727	11206	11685	12163
	4000	5645	5986	6328	6672	7014	7357	7699	8038	8385	8727	9067	9412	9758	10206	10656	11109	11561
	3750	5573	5896	6216	6537	6856	7176	7501	7822	8141	8463	8783	9106	9428	9864	10297	10731	11167
	3500	5500	5803	6102	6402	6701	7001	7301	7600	7901	8200	8499	8799	9098	9520	9934	10352	10769
	3250	5434	5710	5989	6266	6547	6825	7103	7378	7658	7937	8214	8493	8771	9170	9570	9973	10377
	3000	5367	5618	5875	6135	6387	6645	6903	7158	7419	7672	7930	8186	8444	8826	9210	9596	9979
	2750	5294	5529	5763	5999	6234	6469	6703	6936	7171	7408	7646	7878	8114	8481	8849	9215	9587
	2500	5223	5435	5649	5862	6078	6290	6503	6719	6930	7146	7358	7574	7785	8137	8490	8843	9193
	2250	5153	5342	5537	5731	5918	6110	6303	6494	6688	6884	7074	7265	7457	7791	8128	8461	8797
	2000	5082	5252	5423	5593	5764	5935	6104	6277	6446	6619	6788	6960	7131	7447	7765	8086	8404
		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
		Fitting area for wicket door without threshold																
		Clear passage width																

Door leaf versions	Surcharge €
Pearlgrain, galvanized (standard)	No surcharge
Smooth sheet steel, galvanized	Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth	Table price × 2.5
Omission of track panel	Price reduction -237
Colour coating	see page 74
Flush-stopping fire sliding door version (without unattractive guiding profile)	See page 79
Door version with all-round wiper seal on 3 sides or 4 sides on the door leaf	See page 82

- Tested in accordance with EN 13241 and EN 16034

- Product description for standard equipment, see page 5

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

- ▶ Weight of door leaf: 40 kg/m²
- ▶ Individual door set weight max. 180 kg
- ▶ Exclusive Pearlgrain surface finish

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.
The stated surcharges for smoke protection are for doors **without** wicket door.

With lintel: Clear passage height + lintel = MLH = ceiling height
Without lintel: Clear passage height = MLH = ceiling height

Clear passage width (mm)
8500

HÖRMANN Industrial price list (EN) 10-23 23

Fire sliding door FST 30-2 OD

Double-leaf, divided symmetrically



EL₂30

		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250
Clear passage height	8680	See the product configurator for greater widths (max. width 12000 mm)															
	6000	10674 1302	10782 1364	11043 1364	11569 1426	12095 1426	12626 1488	13152 1488	13678 1550	14206 1550	14731 1612	15263 1612	16065 1674	16868 1674	17677 1736	18478 1736	19281 1798
	5750	10516 1302	10622 1302	10885 1364	11368 1364	11853 1426	12336 1426	12820 1488	13303 1488	13785 1550	14270 1550	14750 1612	15551 1612	16351 1674	17149 1674	17946 1736	18750 1736
	5500	10361 1240	10466 1302	10728 1302	11169 1364	11604 1364	12046 1426	12485 1426	12924 1488	13362 1488	13803 1550	14241 1550	15036 1612	15830 1612	16626 1674	17419 1674	18213 1736
	5250	10208 1178	10311 1178	10571 1240	10964 1240	11361 1302	11757 1302	12155 1364	12547 1364	12945 1426	13339 1426	13734 1488	14526 1488	15310 1550	16101 1550	16893 1612	17681 1612
	5000	10057 1116	10159 1178	10413 1178	10763 1240	11115 1240	11469 1302	11819 1302	12172 1364	12523 1364	12871 1426	13224 1426	14009 1488	14793 1488	15577 1550	16361 1550	17144 1612
	4750	9908 1116	10009 1116	10257 1178	10562 1178	10870 1240	11179 1240	11486 1302	11795 1302	12098 1364	12409 1364	12713 1426	13496 1426	14272 1488	15051 1488	15832 1550	16612 1550
	4500	9762 1054	9861 1116	10099 1116	10360 1178	10623 1178	10889 1240	11150 1240	11414 1302	11677 1302	11941 1364	12204 1364	12980 1426	13752 1426	14531 1488	15304 1488	16077 1550
	4250	9617 992	9715 992	9942 1054	10159 1054	10380 1116	10598 1116	10819 1178	11037 1178	11258 1240	11479 1240	11697 1302	12467 1302	13236 1364	14007 1364	14775 1426	15544 1426
	4000	9476 930	9571 992	9783 992	9959 1054	10132 1054	10310 1116	10483 1116	10659 1178	10835 1178	11012 1240	11187 1240	11953 1302	12714 1302	13478 1364	14242 1364	15009 1426
	3750	9335 930	9429 930	9632 992	9799 992	9967 1054	10132 1054	10300 1116	10468 1116	10636 1178	10803 1178	10970 1240	11656 1240	12343 1302	13032 1302	13716 1364	14400 1364
	3500	9198 868	9290 930	9483 930	9642 992	9799 992	9959 1054	10118 1054	10273 1116	10434 1116	10592 1178	10749 1178	11361 1240	11970 1240	12578 1302	13187 1302	13796 1364
	3250	9061 806	9154 806	9333 868	9483 868	9632 930	9783 930	9933 992	10081 992	10232 1054	10382 1054	10534 1116	11062 1116	11595 1178	12125 1178	12661 1240	13189 1240
	3000	8928 744	9018 806	9183 806	9324 868	9463 868	9607 930	9745 930	9890 992	10034 992	10171 1054	10315 1054	10768 1116	11220 1116	11674 1178	12130 1178	12584 1240
	2750	8796 744	8885 744	9033 806	9164 806	9294 868	9433 868	9563 930	9698 930	9829 992	9963 992	10097 1054	10473 1054	10847 1116	11221 1116	11602 1178	11976 1178
	2500	8666 682	8753 744	8883 744	9005 806	9130 806	9257 868	9379 868	9505 930	9628 930	9757 992	9877 992	10175 1054	10475 1054	10773 1116	11073 1116	11370 1178
	2250	8538 620	8624 620	8730 682	8848 682	8966 744	9080 744	9196 806	9313 806	9431 868	9542 868	9657 930	9881 930	10102 992	10321 992	10542 1054	10763 1054
	2000	8412 558	8497 620	8582 620	8688 682	8797 682	8905 744	9010 744	9119 806	9229 806	9335 868	9441 868	9587 930	9729 930	9871 992	10014 992	10159 1054
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250

Fitting area for wicket door **without** threshold

Clear passage width

Door leaf versions	Surcharge €
Pearlgrain, galvanized (standard)	No surcharge
Smooth sheet steel, galvanized	Surcharge flat rate
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth	Table price x 2.5
Omission of track panel	Price reduction
Colour coating	see page 74
Flush-stopping fire sliding door version (without unattractive guiding profile)	See page 79
Door version with all-round wiper seal on 3 sides or 4 sides on the door leaf	See page 82

- Tested in accordance with EN 13241 and EN 16034

- Product description for standard equipment, see page 5

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

- ▶ Weight of door leaf: 40 kg/m²
- ▶ Individual door set weight max. 180 kg
- ▶ Exclusive Pearlgrain surface finish

The prices do **not** include the hold-open device, including 2 magnets and 2 telescopic anchors.
The stated surcharges for smoke protection are for doors **without** wicket door.

With lintel: Clear passage height + lintel = MLH = ceiling height
Without lintel: Clear passage height = MLH = ceiling height

5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	8750	9000	9250	9500	9750	10000
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Price

Smoke protection function S₂₀₀ surcharge
Smoke protection only available without wicket door.

- ▶ Max. joint length 30 m

Price

Smoke protection function S₂₀₀ surcharge
Smoke protection possible with wicket door,
if required.

Surcharge per wicket door €261

► Max. joint length 27 m

Wicket/ escape door without threshold and equipment	See page 76
Hold-open devices	See page 94
Further optional extras	See page 76 – 96

Fire sliding door FST 60-1 OD

Single-leaf



EL₂60

	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
8260	See the product configurator for greater widths (max. width 12000 mm)																
6000	7976	8483	8993	9506	10017	10526	11034	11545	12054	12564	13075	13585	14096	14793	15492	16190	16889
5750	7703	8196	8684	9176	9664	10157	10647	11138	11628	12118	12610	13098	13588	14262	14930	15601	16266
5500	7437	7906	8376	8845	9317	9787	10259	10729	11201	11670	12143	12614	13083	13723	14365	15004	15644
5250	7164	7615	8067	8518	8967	9420	9872	10324	10775	11226	11674	12127	12579	13186	13800	14410	15019
5000	6892	7325	7755	8184	8622	9050	9481	9914	10345	10777	11208	11639	12073	12649	13236	13817	14399
4750	6625	7035	7448	7856	8271	8683	9094	9507	9916	10333	10741	11153	11564	12118	12670	13222	13773
4500	6354	6747	7136	7531	7923	8312	8707	9096	9489	9883	10273	10665	11061	11583	12105	12628	13151
4250	682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178
4000	6084	6454	6828	7200	7573	7945	8319	8691	9063	9438	9809	10181	10553	11049	11542	12035	12528
3750	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178
3500	5814	6165	6517	6872	7224	7577	7929	8280	8636	8989	9339	9694	10050	10512	10976	11442	11907
3250	620	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116
3000	5741	6073	6403	6734	7062	7391	7726	8057	8386	8717	9048	9379	9712	10160	10605	11053	11502
2750	620	620	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116
2500	5665	5977	6285	6594	6901	7211	7520	7828	8138	8447	8754	9063	9372	9805	10233	10662	11092
2250	558	620	620	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054
2000	5597	5881	6168	6454	6743	7029	7316	7599	7887	8175	8460	8748	9034	9446	9856	10272	10688
	558	558	620	620	682	682	744	744	806	806	868	868	930	930	992	992	1054
	5528	5787	6052	6318	6579	6845	7110	7373	7641	7902	8169	8432	8697	9091	9486	9884	10279
	496	558	558	620	620	682	682	744	744	806	806	868	868	930	930	992	992
	5454	5695	5936	6179	6422	6663	6905	7145	7386	7630	7876	8114	8357	8735	9115	9492	9874
	496	496	558	558	620	620	682	682	744	744	806	806	868	868	930	930	992
	5380	5599	5818	6038	6260	6479	6698	6920	7137	7360	7578	7800	8018	8382	8744	9108	9469
	434	496	496	558	558	620	620	682	682	744	744	806	806	868	868	930	930
	5307	5502	5702	5902	6096	6294	6492	6688	6890	7090	7286	7484	7682	8025	8372	8715	9061
	434	434	496	496	558	558	620	620	682	682	744	744	806	806	868	868	930
	5235	5410	5586	5761	5937	6114	6288	6465	6640	6817	6992	7169	7345	7670	7998	8328	8655
	372	434	434	496	496	558	558	620	620	682	682	744	744	806	806	868	868

Fitting area for wicket door **without** threshold

Clear passage width

Door leaf versions	Surcharge €
Pearlgrain, galvanized (standard)	No surcharge
Smooth sheet steel, galvanized	Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth	Table price x 2.5
Omission of track panel	Price reduction -237
Colour coating	see page 74
Flush-stopping fire sliding door version (without unattractive guiding profile)	See page 79
Door version with all-round wiper seal on 3 sides or 4 sides on the door leaf	See page 82

Fire sliding door EI₆₀ made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

- Door leaf weight: 50 kg/m²
- Individual door set weight max. 180 kg
- Exclusive Pearlgrain surface finish

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.
The stated surcharges for smoke protection are for doors **without** wicket door.

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height

5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	12000			
See the product configurator for greater widths (max. width 12000 mm)																8260	Clear passage height	Fitting area for wicket door without threshold
	17589	18287	18986	19686	20809	21929	23049	24173	25295	26417	27540	28662	29783	30905	6000			
	16937	17607	18276	18944	19970	20994	22021	23043	24069	25095	26120	27143	28170	29195	5750			
	16282	16922	17564	18209	19136	20060	20988	21916	22844	23772	24702	25629	26559	27484	5500			
	15630	16242	16852	17465	18296	19125	19956	20790	21619	22451	23284	24113	24943	25775	5250			
	14978	15562	16144	16722	17455	18194	18927	19664	20397	21128	21863	22599	23331	24067	5000			
	14329	14878	15430	15985	16620	17256	17894	18533	19167	19804	20446	21082	21718	22355	4750			
	13675	14195	14721	15242	15783	16321	16865	17405	17942	18483	19026	19566	20107	20646	4500			
	13022	13514	14007	14506	14945	15390	15834	16275	16719	17162	17607	18048	18492	18938	4250			
	12369	12832	13299	13762	14107	14453	14801	15148	15494	15844	16186	16533	16879	17227	4000			
	11947	12392	12843	13287	13640	13992	14344	14694	15047	15399	15752	16105	16456	16806	3750			
	11522	11952	12383	12814	13171	13528	13884	14243	14602	14962	15316	15672	16028	16389	3500			
	11099	11514	11926	12337	12702	13063	13428	13788	14153	14517	14878	15241	15605	15967	3250			
	10674	11071	11467	11863	12234	12605	12970	13338	13707	14072	14441	14811	15176	15547	3000			
	10254	10632	11011	11389	11763	12137	12512	12884	13257	13634	14004	14379	14754	15130	2750			
	9828	10189	10553	10915	11294	11673	12053	12433	12812	13189	13570	13949	14329	14707	2500			
	9404	9749	10096	10442	10826	11209	11596	11980	12364	12745	13132	13517	13903	14285	2250			
	8984	9310	9637	9967	10356	10748	11138	11523	11917	12309	12699	13087	13475	13869	2000			
5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	12000			
Fitting area for wicket door without threshold																		
Clear passage width																		

Price

Smoke protection function S₂₀₀ surcharge
Smoke protection only available without wicket door.

Price

Smoke protection function S₂₀₀ surcharge
Smoke protection possible with wicket door, if required.

Surcharge per wicket door €261

► Max. joint length 19 m

► Max. joint length 24 m

Wicket / escape door without threshold and equipment	See page 76
Hold-open devices	See page 94
Further optional extras	See page 76 – 96

Fire sliding door FST 60-2 OD

Double-leaf, divided symmetrically



EL₂60

		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
		See the product configurator for greater widths (max. width 12000 mm)														
Clear passage height	6500	11551	11667	11950	12520	13088	13663	14233	14801	15373	15942	16517	17555	18432	19316	20192
	6250	11269	11383	11659	12215	12769	13330	13886	14441	14998	15552	16114	17043	17896	18753	19604
	6000	10995	11106	11374	11917	12458	13004	13547	14088	14633	15173	15721	16547	17375	18207	19033
	5750	10832	10941	11212	11709	12208	12707	13204	13703	14198	14698	15193	16018	16842	17663	18485
	5500	10671	10780	11050	11503	11952	12407	12860	13311	13763	14217	14668	15487	16306	17125	17941
	5250	10514	10620	10888	11294	11702	12110	12519	12924	13333	13740	14145	14962	15770	16584	17400
	5000	10359	10463	10726	11086	11449	11813	12174	12537	12899	13257	13620	14430	15237	16043	16852
	4750	10206	10309	10564	10879	11195	11514	11831	12148	12461	12781	13094	13901	14700	15503	16307
	4500	10055	10156	10402	10670	10942	11216	11484	11757	12028	12300	12570	13370	14166	14967	15763
	4250	992	1006	10240	10463	10691	10916	11144	11368	11596	11823	12049	12842	13634	14427	15218
	4000	9760	9859	10077	10258	10435	10619	10796	10979	11160	11343	11522	12311	13096	13882	14670
	3750	9615	9713	9920	10092	10266	10435	10610	10782	10956	11127	11300	12007	12713	13422	14128
	3500	9474	9569	9767	9932	10092	10258	10421	10581	10748	10910	11072	11702	12329	12954	13582
	3250	9333	9427	9613	9767	9920	10077	10231	10383	10539	10694	10850	11393	11943	12489	13041
	3000	9196	9288	9458	9604	9747	9895	10037	10187	10335	10476	10624	11091	11556	12024	12494
	2750	9059	9151	9304	9439	9573	9716	9850	9989	10124	10262	10400	10787	11172	11558	11949
	2500	8926	9016	9149	9275	9404	9535	9660	9790	9916	10049	10174	10481	10790	11096	11406
	2250	8794	8883	8992	9114	9234	9352	9471	9592	9713	9828	9947	10177	10405	10632	10859
	2000	8664	8752	8840	8948	9061	9172	9281	9393	9506	9615	9724	9874	10021	10167	10314
		558	620	620	682	682	744	744	806	806	868	868	930	930	992	992
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
		Fitting area for wicket door without threshold														
		Clear passage width														

Door leaf versions	Surcharge €
Pearlgrain, galvanized (standard)	No surcharge
Smooth sheet steel, galvanized	Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth	Table price x 2.5
Omission of track panel	Price reduction -237
Colour coating	see page 74
Flush-stopping fire sliding door version (without unattractive guiding profile)	See page 79
Door version with all-round wiper seal on 3 sides or 4 sides on the door leaf	See page 82

Fire sliding door EI₆₀ made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

- Door leaf weight: 50 kg/m²
- Individual door set weight max. 180 kg
- Exclusive Pearlgrain surface finish

The prices do **not** include the hold-open device, including 2 magnet and 2 telescopic anchor.
The stated surcharges for smoke protection are for doors **without** wicket door.

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height

5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	
See the product configurator for greater widths (max. width 12000 mm)															
	21068	21946	23273	24170	24705	25240	25774	27038	27555	28071	28589	29109	28995	29529	6500
	20454	21306	22378	23240	23755	24270	24783	25997	26496	26992	27490	27989	27880	28393	6250
	19859	20686	21517	22346	22841	23336	23830	24998	25477	25954	26433	26913	26808	27301	6000
	19312	20131	20955	21778	22229	22679	23131	23583	24035	24485	24937	25389	25840	26292	5750
	18759	19579	20397	21214	21619	22027	22433	22841	23248	23654	24059	24467	24872	25281	5500
	18211	19020	19834	20649	21010	21372	21736	22099	22461	22821	23184	23546	23909	24270	5250
	17658	18468	19274	20081	20401	20720	21035	21352	21672	21988	22309	22627	22942	23261	5000
	17110	17910	18713	19517	19789	20060	20335	20610	20886	21155	21429	21703	21976	22248	4750
	16560	17353	18151	18949	19179	19409	19637	19866	20098	20325	20554	20779	21011	21238	4500
	1550	1550	1612	1612	1674	1674	1736	1736	20098	20325	20554	20779	21011	21238	4250
	16010	16802	17593	18384	18570	18755	18940	19122	19308	19491	19674	19862	20044	20228	4000
	1426	1488	1488	1550	1550	1612	1612	1674	19308	19491	19674	19862	20044	20228	3750
	15459	16247	17034	17820	17960	18102	18241	18380	18520	18660	18798	18940	19076	19222	3500
	1426	1426	1488	1488	1550	1550	1612	1612	18520	18660	18798	18940	19076	19222	3250
	14832	15541	16250	16955	17122	17283	17450	17616	17780	17945	18116	18280	18445	18609	3000
	1364	1426	1426	1488	1488	1550	1550	1612	17780	17945	18116	18280	18445	18609	2750
	14210	14835	15462	16090	16279	16473	16665	16855	17047	17237	17430	17617	17810	18002	2500
	1364	1364	1426	1426	1488	1488	1550	1550	17047	17237	17430	17617	17810	18002	2250
	13585	14131	14681	15227	15445	15662	15876	16092	16310	16525	16742	16958	17173	17393	2000
	1240	1302	1302	1364	1364	1426	1426	1488	16310	16525	16742	16958	17173	17393	
	12961	13429	13896	14364	14606	14846	15088	15329	15573	15816	16056	16300	16542	16784	
	1240	1240	1302	1302	1364	1364	1426	1426	15573	15816	16056	16300	16542	16784	
	12336	12725	13114	13500	13765	14036	14304	14569	14833	15101	15371	15638	15908	16176	
	1178	1240	1240	1302	1302	1364	1364	1426	14833	15101	15371	15638	15908	16176	
	11711	12018	12328	12635	12927	13221	13513	13809	14101	14390	14685	14978	15269	15565	
	1178	1178	1240	1240	1302	1302	1364	1364	14101	14390	14685	14978	15269	15565	
	11086	11317	11544	11769	12087	12408	12726	13046	13361	13680	14000	14318	14635	14958	
	1054	1116	1116	1178	1178	1240	1240	1302	13361	13680	14000	14318	14635	14958	
	10463	10611	10757	10905	11248	11595	11936	12282	12626	12971	13314	13658	14003	14347	
	1054	1054	1116	1116	1178	1178	1240	1240	12626	12971	13314	13658	14003	14347	
5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	
Fitting area for wicket door without threshold															
Clear passage width															

Price

Smoke protection function S₂₀₀ surcharge
Smoke protection only available without wicket door.

► Max. joint length 24 m

Price

Smoke protection function S₂₀₀ surcharge
Smoke protection possible with wicket door, if required.

Surcharge per wicket door €261

► Max. joint length 24 m

Wicket / escape door without threshold and equipment	See page 76
Hold-open devices	See page 94
Further optional extras	See page 76 – 96

Fire sliding door FST 90-1 OD

Single-leaf



EI₂90

	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
8260	See the product configurator for greater widths (max. width 12000 mm)																
6000	8020	8684	9354	10020	10682	11350	12015	12681	13349	14017	14684	15345	16012	16877	17747	18609	19476
5750	7795	8442	9085	9729	10371	11016	11658	12302	12946	13589	14232	14876	15519	16336	17160	17978	18797
5500	7578	8199	8817	9438	10060	10677	11299	11920	12542	13161	13782	14401	15023	15795	16569	17342	18116
5250	7353	7947	8550	9148	9743	10344	10942	11538	12139	12735	13336	13931	14531	15252	15983	16711	17435
5000	7134	7705	8283	8856	9434	10005	10583	11155	11733	12310	12883	13460	14032	14715	15395	16074	16753
4750	6913	7460	8016	8570	9121	9674	10226	10778	11329	11884	12436	12986	13540	14175	14807	15441	16071
4500	6688	7222	7748	8277	8808	9338	9867	10398	10926	11455	11985	12514	13044	13631	14218	14805	15393
4250	682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178
4000	6465	6974	7480	7988	8494	9003	9508	10019	10521	11029	11537	12044	12551	13090	13630	14172	14713
3750	620	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116
3500	6135	6582	7031	7485	7934	8383	8828	9282	9731	10179	10631	11078	11526	11992	12456	12924	13385
3250	6018	6438	6851	7266	7682	8096	8509	8925	9342	9758	10169	10585	11000	11434	11872	12309	12743
3000	558	620	620	682	682	744	744	806	806	868	868	930	930	992	992	1054	1054
2750	5911	6291	6672	7052	7430	7813	8194	8575	8952	9333	9712	10090	10473	10878	11287	11691	12098
2500	5800	6144	6490	6836	7180	7527	7873	8216	8564	8909	9256	9597	9945	10321	10703	11078	11455
2250	496	558	558	620	620	682	682	744	744	806	806	868	868	930	930	992	992
2000	5690	6000	6309	6621	6930	7239	7554	7862	8174	8487	8796	9106	9420	9766	10114	10464	10813
	496	496	558	558	620	620	682	682	744	744	806	806	868	868	930	930	992
	5576	5852	6131	6403	6681	6959	7234	7508	7783	8063	8336	8613	8888	9208	9528	9848	10165
	434	496	496	558	558	620	620	682	682	744	744	806	806	868	868	930	930
	5467	5706	5948	6186	6432	6673	6915	7153	7398	7636	7878	8119	8361	8651	8942	9232	9525
	434	434	496	496	558	558	620	620	682	682	744	744	806	806	868	868	930
	5356	5562	5767	5974	6180	6384	6593	6800	7006	7213	7421	7625	7833	8095	8357	8616	8881
	372	434	434	496	496	558	558	620	620	682	682	744	744	806	806	868	868

Fitting area for wicket door **without** threshold

Clear passage width

Door leaf versions

Pearlgrain, galvanized (standard)

Smooth sheet steel, galvanized

Stainless steel sheet V2 A, 1.4301, K240 polished, smooth

Omission of track panel

Surcharge €

No surcharge

Surcharge flat rate

Table price x 2.5

Price reduction

-237

Colour coating

see page 74

Flush-stopping fire sliding door version (without unattractive guiding profile)

See page 79

Door version with all-round wiper seal on 3 sides or 4 sides on the door leaf

See page 82

Fire sliding door EI₉₀ made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

- Door leaf weight: 50 kg/m²
- Individual door set weight max. 180 kg
- Exclusive Pearlgrain surface finish

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.
The stated surcharges for smoke protection are for doors **without** wicket door.

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height

5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	12000				
See the product configurator for greater widths (max. width 12000 mm)																8260	See the product configurator for greater heights (max. height 8260 mm)	Clear passage height	
	20344	21211	22076	22944	23860	24781	25696	26613	27531	28447	29367	30286	30891	31509		6000			
	19616	20438	21258	22074	22675	23269	23870	24470	25067	25665	26264	28588	29326	29912		5750			
	18890	19662	20433	21207	21808	22403	22998	23598	24197	24792	25390	25989	27407	27956		5500			
	18160	18889	19613	20341	20934	21533	22133	22728	23325	23918	24517	25112	25614	26126		5250			
	17434	18115	18792	19473	20069	20664	21262	21853	22451	23047	23642	24235	24720	25214		5000			
	16708	17340	17973	18605	19199	19798	20390	20985	21578	22175	22767	23364	23832	24308		4750			
	15979	16566	17151	17740	18331	18929	19522	20116	20707	21302	21896	22490	22938	23398		4500			
	15250	15792	16331	16871	17462	18055	18650	19242	19834	20427	21021	21610	22044	22484		4250			
	14528	15015	15511	16006	16594	17187	17778	18370	18963	19551	20144	20736	21150	21573		4000			
	13853	14317	14781	15245	15824	16397	16977	17553	18129	18704	19285	19864	20261	20666		3750			
	13182	13616	14048	14485	15047	15609	16171	16737	17299	17861	18425	18987	19367	19754		3500			
	12505	12914	13320	13725	14272	14820	15370	15918	16465	17015	17563	18111	18473	18843		3250			
	11831	12208	12588	12965	13501	14032	14566	15100	15637	16168	16702	17237	17581	17934		3000			
	11156	11510	11857	12204	12729	13245	13765	14285	14803	15323	15842	16361	16689	17022		2750			
	10485	10808	11125	11445	11953	12455	12957	13467	13971	14476	14980	15485	15796	16112		2500			
	9813	10108	10398	10684	11179	11667	12160	12648	13138	13630	14121	14610	14902	15200		2250			
	9142	9404	9668	9929	10405	10878	11354	11827	12309	12784	13259	13736	14010	14291		2000			
5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	12000				
Fitting area for wicket door without threshold																	Fitting area for wicket door without threshold		
Clear passage width																			

Price

Smoke protection function S₂₀₀ surcharge
Smoke protection only available without wicket door.

► Max. joint length 19 m

Price

Smoke protection function S₂₀₀ surcharge
Smoke protection possible with wicket door, if required.

Surcharge per wicket door €261

► Max. joint length 24 m

Wicket / escape door without threshold and equipment	See page 76
Hold-open devices	See page 94
Further optional extras	See page 76 – 96

Fire sliding door FST 90-2 OD

Double-leaf, divided symmetrically



EL₂90

		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
		See the product configurator for greater widths (max. width 12000 mm)														
Clear passage height	6500	12705	12835	13145	13772	14398	15029	15656	16282	16910	17535	18169	19310	20276	21247	22212
	6250	12396	12521	12825	13437	14046	14663	15274	15884	16498	17108	17726	18748	19686	20629	21564
	6000	12094	12216	12511	13108	13704	14305	14902	15497	16095	16691	17293	18201	19112	20028	20936
	5750	11915	12035	12333	12881	13429	13977	14524	15073	15618	16167	16712	17620	18525	19430	20334
	5500	11739	11858	12156	12654	13147	13647	14146	14642	15139	15638	16136	17037	17936	18837	19735
	5250	11565	11683	11976	12422	12871	13320	13771	14216	14666	15114	15560	16458	17347	18242	19140
	5000	11394	11510	11799	12195	12594	12994	13390	13790	14189	14582	14982	15873	16761	17648	18537
	4750	11226	11340	11621	11967	12315	12666	13013	13363	13707	14059	14404	15291	16170	17053	17938
	4500	11061	11172	11442	11737	12036	12337	12633	12932	13231	13529	13828	14706	15582	16464	17339
	4250	1054	1116	1116	1178	1178	1240	1240	1302	1302	1364	1364	1426	1426	1488	1488
	4000	10897	11007	11265	11510	11760	12008	12259	12504	12755	13006	13253	14126	14998	15870	16740
	3750	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302	1364	1364	1426
	3500	10735	10845	11084	11284	11479	11681	11877	12076	12276	12478	12674	13543	14405	15270	16137
	3250	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302	1364	1364
	3000	10577	10684	10913	11103	11291	11479	11670	11860	12051	12239	12430	13207	13984	14765	15540
	2750	930	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302	1364
	2500	10421	10526	10744	10924	11103	11284	11463	11639	11822	12001	12179	12871	13563	14250	14941
	2250	868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302
	2000	10267	10370	10574	10744	10913	11084	11255	11422	11592	11763	11934	12532	13137	13738	14345
		806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240
		10114	10217	10404	10563	10722	10884	11041	11205	11368	11524	11687	12200	12712	13227	13743
		744	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178	1178
		9966	10066	10234	10383	10531	10687	10835	10987	11136	11288	11439	11866	12290	12713	13144
		744	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116	1178
		9819	9917	10064	10203	10344	10489	10626	10769	10909	11054	11192	11529	11869	12206	12546
		682	744	744	806	806	868	868	930	930	992	992	1054	1054	1116	1116
		9673	9770	9891	10025	10157	10288	10419	10552	10684	10811	10941	11195	11446	11694	11945
		620	620	682	682	744	744	806	806	868	868	930	930	992	992	1054
		9530	9627	9723	9843	9967	10089	10209	10333	10456	10577	10697	10862	11023	11184	11345
		558	620	620	682	682	744	744	806	806	868	868	930	930	992	992
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
		Fitting area for wicket door without threshold														
		Clear passage width														

Door leaf versions	Surcharge €
Pearlgrain, galvanized (standard)	No surcharge
Smooth sheet steel, galvanized	Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth	Table price x 2.5
Omission of track panel	Price reduction -237
Colour coating	see page 74
Flush-stopping fire sliding door version (without unattractive guiding profile)	See page 79
Door version with all-round wiper seal on 3 sides or 4 sides on the door leaf	See page 82

Fire sliding door EI₂90 made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

- Door leaf weight: 50 kg/m²
- Individual door set weight max. 180 kg
- Exclusive Pearlgain surface finish

The prices do **not** include the hold-open device, including 2 magnet and 2 telescopic anchor.
The stated surcharges for smoke protection are for doors **without** wicket door.

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height

5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	
See the product configurator for greater widths (max. width 12000 mm)															
	23176	24141	25601	26587	27175	27764	28351	29741	30311	30879	31448	32020	31895	32482	6500
	22500	23438	24616	25564	26131	26696	27261	28598	29145	29691	30238	30788	30669	31233	6250
	21844	22755	23670	24581	25126	25670	26212	27497	28024	28550	29076	29604	29488	30032	6000
	21243	22144	23050	23956	24452	24947	25445	25941	26438	26933	27430	27929	28424	28922	5750
	20635	21536	22437	23335	23781	24230	24677	25126	25573	26018	26465	26914	27359	27809	5500
	20032	20922	21818	22713	23112	23509	23910	24310	24707	25103	25502	25901	26299	26696	5250
	19423	20314	21201	22090	22441	22792	23138	23487	23840	24187	24540	24890	25236	25586	5000
	18821	19701	20585	21469	21769	22066	22368	22671	22974	23271	23572	23873	24173	24473	4750
	18215	19088	19967	20844	21097	21349	21602	21852							4500
	1550	1550	1612	1612	1674	1674	1736	1736	22108	22358	22610	22857	23113	23362	4250
	17611	18482	19352	20222	20427	20631	20833	21035							4000
	1426	1488	1488	1550	1550	1612	1612	1674	21239	21441	21642	21848	22049	22250	3750
	17005	17872	18737	19603	19756	19911	20065	20217							3500
	1426	1426	1488	1488	1550	1550	1612	1612	20373	20526	20678	20833	20984	21144	3250
	16314	17095	17875	18651	18834	19012	19196	19377							3000
	1364	1426	1426	1488	1488	1550	1550	1612	19558	19740	19928	20108	20289	20471	2750
	15631	16319	17008	17699	17907	18121	18331	18540							2500
	1364	1364	1426	1426	1488	1488	1550	1550	18752	18961	19173	19379	19590	19802	2250
	14944	15545	16149	16750	16991	17228	17464	17701							2000
	1240	1302	1302	1364	1364	1426	1426	1488	17941	18178	18416	18653	18890	19133	
	14257	14772	15285	15800	16066	16331	16596	16862							
	1240	1240	1302	1302	1364	1364	1426	1426	17130	17398	17662	17931	18196	18462	
	13570	13998	14425	14850	15142	15439	15734	16026							
	1178	1240	1240	1302	1302	1364	1364	1426	16316	16611	16908	17203	17499	17793	
	12882	13221	13560	13899	14220	14542	14864	15190							
	1178	1178	1240	1240	1302	1302	1364	1364	15511	15829	16154	16476	16797	17122	
	12195	12447	12698	12946	13295	13649	13999	14351							
	1054	1116	1116	1178	1178	1240	1240	1302	14698	15048	15400	15749	16098	16454	
	11510	11672	11833	11995	12373	12754	13129	13510							
	1054	1054	1116	1116	1178	1178	1240	1240	13889	14267	14645	15024	15404	15782	
5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	
Fitting area for wicket door without threshold															
Clear passage width															

Price	Smoke protection function S ₂₀₀ surcharge Smoke protection only available without wicket door.	Price	Smoke protection function S ₂₀₀ surcharge Smoke protection possible with wicket door, if required. Surcharge per wicket door €261
► Max. joint length 24 m		► Max. joint length 24 m	
Wicket / escape door without threshold and equipment			See page 76
Hold-open devices			See page 94
Further optional extras			See page 76 – 96

Fire sliding door FST 120-1 OD

Single-leaf



EL₂120

		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750
Clear passage height	4850	7051 744	7609 744	8176 806	8741 806	9303 868	9867 868	10431 930	10994 930	11556 992	12122 992	12685 1054	13246 1054
	4500	6822 682	7366 744	7903 744	8443 806	8984 806	9525 868	10064 868	10606 930	11145 930	11684 992	12225 992	12764 1054
	4250	6594 682	7113 682	7630 744	8148 744	8664 806	9183 806	9698 868	10219 868	10731 930	11250 930	11768 992	12285 992
	4000	6370 620	6864 682	7358 682	7852 744	8346 744	8841 806	9334 806	9830 868	10321 868	10815 930	11311 930	11803 992
	3750	6258 620	6714 620	7172 682	7635 682	8093 744	8551 744	9005 806	9468 806	9926 868	10383 868	10844 930	11300 930
	3500	6138 558	6567 620	6988 620	7411 682	7836 682	8258 744	8679 744	9104 806	9529 806	9953 868	10372 868	10797 930
	3250	6029 558	6417 558	6805 620	7193 620	7579 682	7969 682	8358 744	8747 744	9131 806	9520 806	9906 868	10292 868
	3000	5916 496	6267 558	6620 558	6973 620	7324 620	7678 682	8030 682	8380 744	8735 744	9087 806	9441 806	9789 868
	2750	5804 496	6120 496	6435 558	6753 558	7069 620	7384 620	7705 682	8019 682	8337 744	8657 744	8972 806	9288 806
	2500	5688 434	5969 496	6254 496	6531 558	6815 558	7098 620	7379 620	7658 682	7939 682	8224 744	8503 744	8785 806
Clear passage width	2250	5576 434	5820 434	6067 496	6310 496	6561 558	6806 558	7053 620	7296 620	7546 682	7789 682	8036 744	8281 744
	2000	5463 372	5673 434	5882 434	6093 496	6304 496	6512 558	6725 558	6936 620	7146 620	7357 682	7569 682	7778 744
		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750

Door leaf versions		Surcharge €
Pearlgrain, galvanized (standard)		No surcharge
Smooth sheet steel, galvanized	Surcharge flat rate	143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth		Table price × 2.5
Omission of track panel	Price reduction	-237

Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304

Door leaf and door frame powder-coated in different colours Surcharge 382

Door version with all-round wiper seal on 3 sides or 4 sides on the door leaf See page 82

Fire sliding door EI₁₂₀ made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

- Door leaf weight: 60 kg/m²
- Individual door set weight max. 180 kg
- Exclusive Pearlgrain surface finish

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.
The stated surcharges for smoke protection are for doors **without** wicket door.

Calculation basis for direct fitting to the ceiling:
With lintel: clear passage height + lintel = MLH = ceiling height

	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
	13811 1116	14459 1116	15103 1178	15750 1178	16392 1240	17042 1240	17687 1302	18332 1302	18977 1364	19583 1364	20194 1426	20798 1426	21405 1488
	13305 1054	13904 1116	14502 1116	15101 1178	15701 1178	16299 1240	16897 1240	17494 1302	18095 1302	18698 1364	19308 1364	19912 1426	20518 1426
	12802 1054	13352 1054	13903 1116	14455 1116	15007 1178	15555 1178	16108 1240	16658 1240	17208 1302	17811 1302	18416 1364	19023 1364	19627 1426
	12298 992	12799 1054	13303 1054	13809 1116	14310 1116	14819 1178	15315 1178	15821 1240	16326 1240	16926 1302	17531 1302	18134 1364	18737 1364
	11757 992	12232 992	12705 1054	13182 1054	13653 1116	14130 1116	14603 1178	15077 1178	15550 1240	16140 1240	16725 1302	17317 1302	17904 1364
	11220 930	11663 992	12109 992	12555 1054	12998 1054	13446 1116	13888 1116	14329 1178	14775 1178	15348 1240	15921 1240	16494 1302	17072 1302
	10682 930	11096 930	11513 992	11925 992	12340 1054	12755 1054	13172 1116	13586 1116	14000 1178	14557 1178	15116 1240	15677 1240	16236 1302
	10144 868	10527 930	10917 930	11300 992	11684 992	12068 1054	12452 1054	12840 1116	13224 1116	13771 1178	14313 1178	14857 1240	15402 1240
	9608 868	9961 868	10316 930	10673 930	11029 992	11379 992	11740 1054	12094 1054	12448 1116	12984 1116	13510 1178	14040 1178	14571 1240
	9066 806	9392 868	9719 868	10045 930	10368 930	10695 992	11024 992	11348 1054	11674 1054	12192 1116	12704 1116	13216 1178	13736 1178
	8528 806	8824 806	9121 868	9417 868	9716 930	10009 930	10310 992	10606 992	10898 1054	11403 1054	11900 1116	12403 1116	12901 1178
	7990 744	8257 806	8524 806	8788 868	9059 868	9325 930	9592 930	9861 992	10128 992	10613 1054	11096 1054	11581 1116	12064 1116
	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
Clear passage width													

Price

Smoke protection function S₂₀₀ surcharge

► Max. joint length 19.5 m

Hold-open devices	See page 94
Further optional extras	See page 76 – 96

Fire sliding door FST 120-2 OD

Double-leaf, divided symmetrically



EL₂120

		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250
Clear passage height	4700	11451	11567	11853	12206	12561	12919	13273	13630	13981	14340	14692	15597
		1116	1116	1178	1178	1240	1240	1302	1302	1364	1364	1426	1426
	4500	11282	11395	11671	11972	12277	12584	12886	13191	13496	13800	14105	15000
		1054	1116	1116	1178	1178	1240	1240	1302	1302	1364	1364	1426
	4250	11115	11227	11490	11740	11995	12248	12504	12754	13010	13266	13518	14409
		992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302	1302
	4000	10950	11062	11306	11510	11709	11915	12115	12318	12522	12728	12927	13814
		930	992	992	1054	1054	1116	1116	1178	1178	1240	1240	1302
	3750	10789	10898	11131	11325	11517	11709	11903	12097	12292	12484	12679	13471
		930	930	992	992	1054	1054	1116	1116	1178	1178	1240	1240
Clear passage height	3500	10629	10737	10959	11142	11325	11510	11692	11872	12058	12241	12423	13128
		868	930	930	992	992	1054	1054	1116	1116	1178	1178	1240
	3250	10472	10577	10785	10959	11131	11306	11480	11650	11824	11998	12173	12783
		806	806	868	868	930	930	992	992	1054	1054	1116	1116
	3000	10316	10421	10612	10774	10936	11102	11262	11429	11595	11754	11921	12444
		744	806	806	868	868	930	930	992	992	1054	1054	1116
	2750	10165	10267	10439	10591	10742	10901	11052	11207	11359	11514	11668	12103
		744	744	806	806	868	868	930	930	992	992	1054	1054
	2500	10015	10115	10265	10407	10551	10699	10839	10984	11127	11275	11416	11760
		682	744	744	806	806	868	868	930	930	992	992	1054
Clear passage height	2250	9866	9965	10089	10226	10360	10494	10627	10763	10898	11027	11160	11419
		620	620	682	682	744	744	806	806	868	868	930	930
Clear passage height	2000	9721	9820	9917	10040	10166	10291	10413	10540	10665	10789	10911	11079
		558	620	620	682	682	744	744	806	806	868	868	930
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250
Clear passage width													

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth						Table price × 2.5
Omission of track panel						Price reduction -237
Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed Grey white RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382
Door version with all-round wiper seal on 3 sides or 4 sides on the door leaf						See page 82

Fire sliding door EI₁₂₀ made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

- Door leaf weight: 60 kg/m²
- Individual door set weight max. 180 kg
- Exclusive Pearlgrain surface finish

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.
The stated surcharges for smoke protection are for doors **without** wicket door.

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height

	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
	16493 1488	17394 1488	18297 1550	19197 1550	20095 1612	20997 1612	21898 1674	22204 1674	22507 1736	22815 1736	23124 1798
	15894 1426	16793 1488	17686 1488	18579 1550	19470 1550	20366 1612	21261 1612	21519 1674	21776 1674	22034 1736	22289 1736
	15298 1364	16187 1364	17075 1426	17963 1426	18852 1488	19739 1488	20626 1550	20836 1550	21044 1612	21250 1612	21456 1674
	14693 1302	15575 1364	16460 1364	17345 1426	18229 1426	19112 1488	19995 1488	20151 1550	20309 1550	20466 1612	20621 1612
	14264 1302	15060 1302	15851 1364	16640 1364	17437 1426	18233 1426	19024 1488	19211 1488	19392 1550	19580 1550	19765 1612
	13834 1240	14535 1302	15240 1302	15944 1364	16645 1364	17348 1426	18053 1426	18265 1488	18483 1488	18698 1550	18911 1550
	13400 1178	14013 1178	14632 1240	15243 1240	15856 1302	16472 1302	17085 1364	17331 1364	17573 1426	17813 1426	18055 1488
	12966 1116	13492 1178	14018 1178	14542 1240	15067 1240	15591 1302	16116 1302	16387 1364	16658 1364	16928 1426	17199 1426
	12536 1116	12967 1116	13407 1178	13841 1178	14278 1240	14714 1240	15147 1302	15445 1302	15748 1364	16049 1364	16347 1426
	12106 1054	12450 1116	12797 1116	13140 1178	13485 1178	13831 1240	14177 1240	14504 1302	14833 1302	15161 1364	15494 1364
	11675 992	11928 992	12184 1054	12439 1054	12696 1116	12952 1116	13205 1178	13561 1178	13922 1240	14279 1240	14638 1302
	11243 930	11408 992	11572 992	11740 1054	11905 1054	12070 1116	12235 1116	12620 1178	13009 1178	13392 1240	13780 1240
	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
Clear passage width											

Price

Smoke protection function S₂₀₀ surcharge

- Max. joint length 19.5 m

Hold-open devices	See page 94
Further optional extras	See page 76 – 96

Fire sliding door FST BS120

acc. to BS476, tested and certified by Warringtonfire (UK)

Single-leaf



BS120

Standard equipment sliding door FST BS120

- Element thickness / door leaf thickness: 72 mm
- Galvanized sheet steel, sheet thickness 0.75 mm, standard surface finish Pearlgrain or optionally smooth sheet steel
- All-round edge spacing 70 mm
- One-sided screw connection of the element joints
- Flush, fully bonded tongue-and-groove element connection
- Panel style connected using concealed, internal threaded rods
- Grip handle and recessed handle in stainless steel V2 A, 1.4301
- Without lock as standard

► Weight of door leaf: 40 kg/m²

► Individual door set weight max. 180 kg

► Exclusive Pearlgrain surface finish

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.

Fitting possible with:

Wall fitting

- Flush brickwork, thickness ≥ 240 mm
- Concrete, thickness ≥ 175 mm
- Steel girders: fire-proof encased steel components
At least REI-120

		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5055		
Clear passage height	4500	5292	5319	5346	5373	5400	5454	5552	5608	5709	5765	5946	6006	7472	7547	7636	7712	7795	Clear passage height	4500
	4250	5111	5136	5162	5188	5214	5266	5325	5378	5438	5493	5626	5681	6127	6188	7541	7617	7697		4250
	4000	5059	5086	5111	5137	5162	5214	5272	5325	5385	5438	5570	5626	6066	6127	7467	7541	7620		4000
	3750	4840	4864	4888	4912	4938	4987	5041	5092	5147	5199	5318	5372	5770	5827	6310	6373	7181		3750
	3500	4792	4816	4840	4864	4888	4938	4991	5041	5096	5147	5266	5318	5712	5770	6247	6310	7110		3500
	3250	4759	4783	4808	4832	4856	4905	4959	5008	5062	5114	5225	5278	5628	5685	6139	6201	6275		3250
	3000	4712	4736	4760	4783	4808	4856	4909	4959	5013	5062	5174	5225	5572	5628	6078	6139	6213		3000
	2750	4691	4715	4739	4762	4787	4835	4886	4936	4988	5037	5138	5189	5495	5550	5967	6025	6097		2750
Clear passage width	2500	4645	4668	4692	4715	4739	4787	4838	4886	4938	4988	5088	5138	5441	5495	5907	5967	6036	Clear passage width	2500
	2250	4627	4650	4674	4697	4721	4768	4818	4866	4917	4966	5056	5107	5364	5417	5796	5853	5875		2250
	2000	4581	4604	4627	4651	4674	4721	4771	4818	4868	4917	5006	5056	5311	5364	5738	5796	5817		2000

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Optional extras						Surcharge €
"Close" push button HAT 02, surface-mounted or recessed						Each 2015363 73
Air freight / sea freight packaging (IPPC)						See page 98
Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

Fire sliding door FST BS240

acc. to BS476, tested and certified by Warringtonfire (UK)

Single-leaf



BS 240

Standard equipment sliding door FST BS240

- Element thickness / door leaf thickness: 72 mm
- Galvanized sheet steel, sheet thickness 0.75 mm, standard surface finish Pearlgrain or optionally smooth sheet steel
- All-round edge spacing 70 mm
- One-sided screw connection of the element joints
- Flush, fully bonded tongue-and-groove element connection
- Panel style connected using concealed, internal threaded rods
- Grip handle and recessed handle in stainless steel V2 A, 1.4301
- Without lock as standard

► Weight of door leaf: 40 kg/m²

► Individual door set weight max. 180 kg

► Exclusive Pearlgrain surface finish

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.

Fitting possible with:

Wall fitting

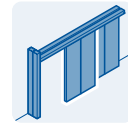
- Flush brickwork, thickness ≥ 240 mm
- Concrete, thickness ≥ 175 mm
- Steel girders: fire-proof encased steel components
At least REI-120

		Clear passage width																		
		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5055		
Clear passage height	4500	6140	6170	6202	6232	6264	6327	6441	6506	6621	6687	6897	6906	7450	7724	7815	7893	7978	4500	
	4250	5928	5958	5988	6018	6049	6108	6177	6238	6308	6371	6526	6534	7046	7116	7719	7796	7877	4250	
	4000	5869	5899	5929	5958	5989	6049	6116	6177	6246	6308	6461	6526	7037	7046	7642	7719	7799	4000	
	3750	5614	5643	5671	5699	5728	5785	5848	5906	5971	6031	6169	6231	6693	6759	7319	7392	7515	3750	
	3500	5559	5586	5614	5643	5671	5728	5789	5848	5911	5971	6108	6169	6625	6693	7246	7319	7441	3500	
	3250	5521	5549	5576	5605	5633	5690	5752	5809	5873	5932	6061	6122	6528	6594	7122	7193	7280	3250	
	3000	5466	5494	5522	5549	5578	5633	5695	5752	5815	5873	6001	6061	6464	6528	7051	7122	7208	3000	
	2750	5442	5469	5497	5525	5552	5608	5669	5725	5785	5843	5960	6020	6375	6438	6921	6991	7072	2750	
	2500	5389	5416	5442	5471	5498	5552	5612	5669	5729	5785	5902	5960	6311	6375	6852	6921	7002	2500	
2250	5368	5395	5421	5449	5476	5531	5589	5645	5703	5761	5865	5924	6222	6285	6723	6790	6815	2250		
	2000	5314	5342	5368	5395	5422	5476	5533	5589	5647	5703	5806	5865	6161	6222	6657	6723	6747	2000	

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Optional extras						Surcharge €
"Close" push button HAT 02, surface-mounted or recessed						Each 2015363 73
Air freight / sea freight packaging (IPPC)						See page 98
Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

Telescopic fire sliding door FST 30-1-T2 OD

Single-leaf, 2-part (T2)



EI₂30

		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
		See the product configurator for greater widths (max. width 12000 mm)													
Clear passage height	8750	16365	16565	16815	17386	17952	18517	19086	19654	20218	20790	22315	23641	24965	26290
	8500	16044	16240	16486	17045	17599	18154	18711	19269	19822	20383	21814	23111	24404	25698
	8250	15730	15922	16163	16711	17254	17797	18345	18891	19433	19983	21323	22590	23855	25120
	8000	15421	15609	15845	16383	16916	17449	17985	18521	19052	19591	20844	22082	23319	24556
	7750	15119	15303	15535	16062	16585	17107	17632	18157	18678	19207	20376	21586	22795	24004
	7500	14823	15003	15230	15748	16260	16771	17286	17802	18312	18831	19917	21101	22283	23464
	7250	14532	14709	14931	15438	15941	16442	16948	17452	17953	18461	19469	20626	21781	22936
	7000	14248	14421	14639	15136	15628	16120	16615	17110	17601	18099	19032	20163	21292	22421
	6750	13967	14137	14351	14839	15322	15804	16289	16775	17256	17744	18604	19710	20813	21917
	6500	13694	13860	14070	14548	15021	15494	15970	16446	16917	17397	18185	19266	20345	21425
	6250	13425	13589	13794	14262	14727	15191	15656	16123	16586	17056	17776	18833	19888	20942
	6000	13162	13322	13524	13983	14437	14893	15350	15807	16261	16721	17377	18410	19441	20471
	5750	12904	13061	13259	13708	14154	14600	15049	15497	15942	16393	16986	17996	19004	20012
	5500	12651	12805	12999	13440	13877	14314	14754	15194	15629	16072	16605	17591	18577	19562
	5250	12403	12553	12744	13176	13604	14034	14465	14896	15323	15756	16231	17195	18158	19122
	5000	12160	12308	12495	12918	13338	13759	14180	14603	15023	15448	15866	16809	17750	18692
	4750	11968	12114	12307	12673	13042	13414	13780	14149	14519	14885	15254	16190	17128	18064
	4500	11780	11923	12116	12434	12748	13065	13380	13695	14015	14329	14644	15573	16502	17434
	4250	11595	11735	11927	12188	12451	12714	12980	13245	13508	13771	14034	14959	15881	16805
	4000	11412	11551	11736	11950	12160	12368	12583	12793	13003	13213	13422	14339	15256	16177
	3750	11232	11369	11561	11758	11962	12160	12360	12563	12763	12957	13161	13984	14809	15635
	3500	11055	11190	11379	11568	11758	11950	12139	12331	12517	12709	12899	13630	14361	15092
	3250	10881	11013	11197	11379	11558	11736	11918	12096	12276	12456	12637	13276	13916	14551
	3000	10710	10840	11017	11187	11355	11525	11697	11866	12036	12204	12374	12922	13466	14013
	2750	10541	10669	10835	10995	11152	11317	11479	11636	11796	11957	12114	12567	13018	13470
	2500	10376	10502	10656	10808	10955	11105	11255	11404	11556	11702	11853	12208	12570	12926
	2250	10212	10336	10477	10615	10753	10896	11031	11175	11313	11450	11588	11856	12119	12387
	2000	10050	10173	10297	10424	10555	10681	10814	10942	11071	11201	11327	11500	11670	11841
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
		Clear passage width													

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth						Table price × 2.5
Omission of track panel						Price reduction -237
Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m²	Preferred colours based on RAL Per m²	RAL to choose Per m²	Metallic colours Per m²	Colours according to NCS Per m²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

2-part telescopic fire sliding door EI₂₃₀ made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

► **Weight of door leaf: 40 kg/m²**

► **Individual door set weight max. 180 kg**

► **Exclusive Pearlgrain surface finish**

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height

Without lintel: Clear passage height = MLH = ceiling height

4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	
See the product configurator for greater widths (max. width 12000 mm)														
	27612	28935	30256	31581	32908	33423	33948	34468	37098	37651	38201	38754	39305	8750
	26991	28284	29577	30871	32169	32672	33184	33693	36122	36662	37196	37736	38271	8500
	26384	27647	28911	30177	31446	31937	32438	32935	35173	35697	36219	36743	37265	8250
	25791	27026	28261	29498	30739	31219	31709	32195	34248	34759	35266	35778	36285	8000
	25212	26419	27626	28835	30048	30518	30996	31471	33348	33845	34339	34837	35331	7750
	24644	25824	27004	28187	29372	29831	30299	30763	32471	32955	33437	33922	34402	7500
	24090	25244	26398	27553	28711	29160	29617	30072	31617	32089	32558	33030	33498	7250
	23549	24677	25804	26933	28066	28504	28952	29396	30786	31246	31702	32161	32618	7000
	23019	24122	25224	26328	27434	27865	28301	28735	29976	30424	30868	31316	31760	6750
	22502	23579	24657	25736	26818	27237	27664	28089	29188	29624	30057	30492	30925	6500
	21995	23050	24103	25157	26216	26626	27043	27458	28421	28845	29266	29691	30112	6250
	21501	22531	23561	24592	25626	26027	26435	26840	27674	28087	28497	28910	29321	6000
	21018	22025	23031	24039	25049	25441	25840	26237	26947	27348	27748	28150	28550	5750
	20546	21530	22514	23499	24487	24870	25260	25647	26238	26630	27018	27410	27799	5500
	20083	21045	22007	22970	23936	24311	24691	25070	25548	25929	26308	26690	27068	5250
	19632	20572	21512	22454	23398	23764	24136	24507	24876	25247	25617	25988	26356	5000
	18996	19931	20867	21803	22737	23053	23372	23692	24012	24329	24647	24966	25284	4750
	18363	19290	20219	21148	22078	22345	22610	22879	23142	23409	23676	23944	24208	4500
	17725	18650	19574	20495	21420	21634	21848	22066	22276	22493	22707	22921	23136	4250
	17092	18008	18929	19843	20759	20923	21084	21247	21409	21576	21736	21901	22066	4000
	16459	17281	18106	18931	19751	19948	20139	20331	20525	20717	20908	21103	21295	3750
	15825	16553	17284	18016	18749	18967	19190	19415	19636	19859	20080	20304	20526	3500
	15188	15828	16464	17100	17740	17991	18243	18496	18750	18998	19254	19505	19755	3250
	14556	15098	15645	16187	16734	17013	17296	17579	17858	18141	18424	18704	18987	3000
	13921	14370	14820	15273	15726	16037	16348	16659	16974	17284	17598	17907	18219	2750
	13282	13643	14003	14360	14719	15062	15400	15745	16082	16426	16767	17106	17449	2500
	12651	12918	13182	13445	13713	14085	14453	14822	15196	15567	15940	16309	16679	2250
	12015	12187	12360	12532	12704	13106	13507	13906	14306	14710	15111	15509	15912	2000
4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	
Fitting area for wicket door without threshold														
Clear passage width														

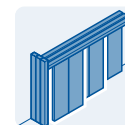
Clear passage height

Fitting area for wicket door **without** threshold

Wicket / escape door without threshold and equipment	See page 76
Flush-stopping fire sliding door version (without unattractive guiding profile)	See page 79
Hold-open devices	See page 94
Further optional extras	See page 76 – 96

Telescopic fire sliding door FST 30-1-T3 OD

Single-leaf, 3-part (T3)



EL₂30

		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
		See the product configurator for greater widths (max. width 12000 mm)													
Clear passage height	8750	19862	20103	20410	21103	21786	22476	23162	23852	24542	25231	27491	29120	30752	32382
	8500	19510	19747	20050	20729	21401	22078	22753	23430	24108	24785	26900	28494	30091	31685
	8250	19165	19398	19695	20363	21022	21688	22350	23016	23682	24346	26320	27880	29442	31003
	8000	18826	19055	19347	20002	20651	21304	21956	22609	23264	23916	25754	27280	28809	30335
	7750	18494	18718	19005	19649	20286	20928	21567	22209	22851	23492	25199	26693	28189	29683
	7500	18167	18387	18669	19302	19927	20557	21186	21817	22448	23077	24657	26118	27581	29044
	7250	17846	18062	18339	18961	19574	20194	20811	21431	22051	22669	24126	25556	26988	28418
	7000	17530	17743	18014	18625	19228	19837	20443	21052	21661	22268	23607	25006	26408	27807
	6750	17220	17429	17697	18296	18888	19486	20082	20680	21278	21875	23098	24468	25839	27208
	6500	16915	17121	17383	17973	18554	19142	19726	20314	20901	21488	22601	23941	25282	26623
	6250	16616	16819	17076	17655	18226	18803	19378	19955	20532	21108	22115	23425	24739	26049
	6000	16322	16521	16774	17342	17903	18471	19035	19602	20169	20735	21639	22922	24206	25489
	5750	16034	16229	16478	17036	17588	18145	18698	19255	19812	20368	21173	22428	23684	24940
	5500	15751	15942	16186	16735	17276	17824	18368	18916	19462	20008	20717	21945	23175	24403
	5250	15472	15659	15900	16439	16971	17508	18043	18581	19118	19654	20271	21473	22676	23877
	5000	15198	15383	15619	16148	16671	17198	17724	18252	18780	19307	19834	21010	22187	23363
	4750	14959	15140	15385	15841	16304	16765	17225	17687	18152	18606	19069	20239	21407	22578
	4500	14724	14902	15148	15542	15939	16334	16723	17119	17517	17913	18306	19467	20628	21791
	4250	14492	14667	14909	15236	15563	15892	16226	16553	16886	17213	17542	18697	19850	21005
	4000	14263	14436	14672	14937	15199	15460	15727	15990	16254	16515	16778	17925	19070	20219
	3750	14039	14210	14448	14695	14951	15199	15450	15705	15953	16196	16453	17482	18512	19544
	3500	13817	13985	14223	14457	14695	14937	15174	15411	15646	15885	16124	17037	17952	18864
	3250	13600	13765	13997	14223	14447	14672	14897	15121	15346	15571	15797	16595	17393	18191
	3000	13386	13549	13771	13983	14194	14409	14621	14833	15046	15254	15469	16151	16831	17515
	2750	13175	13335	13545	13742	13942	14146	14345	14543	14743	14943	15139	15708	16272	16837
	2500	12968	13125	13321	13508	13695	13884	14067	14253	14442	14626	14813	15263	15712	16157
	2250	12763	12918	13097	13267	13441	13620	13790	13966	14142	14315	14487	14817	15150	15480
	2000	12563	12715	12869	13032	13191	13352	13514	13677	13837	14000	14159	14374	14587	14803
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
		Clear passage width													

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth						Table price × 2.5
Omission of track panel						Price reduction -237
Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

3-part telescopic fire sliding door EI₂₃₀ made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

► **Weight of door leaf: 40 kg/m²**

► **Individual door set weight max. 180 kg**

► **Exclusive Pearlgrain surface finish**

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height

Without lintel: Clear passage height = MLH = ceiling height

4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	
See the product configurator for greater widths (max. width 12000 mm)														
	34014	35640	37269	38899	40532	41172	41815	42455	45034	45706	46379	47045	47718	8750
	33282	34872	36466	38061	39660	40286	40915	41541	43935	44592	45249	45898	46555	8500
	32565	34122	35682	37242	38806	39419	40034	40648	42863	43504	44145	44778	45419	8250
	31863	33387	34914	36440	37971	38571	39173	39773	41817	42443	43068	43686	44311	8000
	31177	32668	34162	35656	37153	37740	38329	38916	40798	41407	42018	42621	43230	7750
	30507	31965	33426	34889	36353	36928	37504	38079	39803	40398	40993	41581	42176	7500
	29850	31277	32707	34138	35571	36133	36696	37258	38832	39412	39993	40567	41147	7250
	29207	30604	32003	33402	34805	35355	35906	36457	37885	38451	39018	39578	40143	7000
	28579	29945	31314	32684	34056	34594	35134	35672	36960	37513	38066	38612	39164	6750
	27963	29301	30640	31980	33323	33849	34378	34904	36059	36599	37138	37671	38209	6500
	27361	28669	29980	31292	32605	33121	33637	34152	35180	35706	36231	36752	37277	6250
	26773	28052	29335	30618	31903	32408	32913	33418	34322	34835	35348	35855	36368	6000
	26197	27448	28704	29958	31217	31710	32204	32698	33485	33986	34486	34981	35481	5750
	25632	26858	28086	29314	30545	31027	31512	31995	32668	33157	33645	34127	34616	5500
	25081	26280	27482	28683	29887	30359	30833	31305	31871	32348	32824	33295	33772	5250
	24540	25714	26890	28065	29244	29706	30169	30632	31093	31558	32024	32483	32948	5000
	23746	24914	26083	27253	28420	28817	29215	29614	30013	30412	30808	31207	31604	4750
	22953	24112	25271	26436	27598	27931	28264	28599	28930	29261	29594	29930	30261	4500
	22157	23313	24467	25618	26774	27040	27311	27582	27846	28116	28384	28649	28919	4250
	21365	22512	23657	24806	25951	26155	26355	26560	26762	26966	27171	27377	27582	4000
	20572	21599	22633	23662	24690	24935	25175	25412	25655	25891	26134	26375	26619	3750
	19778	20692	21603	22521	23434	23708	23989	24267	24546	24821	25100	25381	25657	3500
	18984	19781	20581	21375	22175	22490	22804	23120	23436	23749	24066	24384	24695	3250
	18193	18874	19554	20234	20917	21266	21618	21973	22324	22676	23029	23379	23734	3000
	17400	17964	18524	19092	19657	20046	20437	20825	21216	21603	21994	22381	22773	2750
	16608	17054	17503	17950	18397	18826	19251	19680	20106	20531	20957	21383	21811	2500
	15814	16148	16475	16808	17140	17603	18068	18527	18996	19458	19923	20384	20846	2250
	15020	15235	15450	15666	15878	16382	16884	17383	17882	18387	18889	19387	19890	2000
4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	
Fitting area for wicket door without threshold														
Clear passage width														

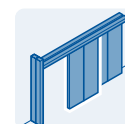
Clear passage height

Fitting area for wicket door **without** threshold

Wicket / escape door without threshold and equipment	See page 76
Hold-open devices	See page 94
Further optional extras	See page 76 – 96

Telescopic fire sliding door FST 60-1-T2 OD

Single-leaf, 2-part (T2)



EI₂60

Clear passage height															
	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
5000	12525	12677	12869	13306	13739	14171	14606	15042	15473	15911	16342	17314	18283	19252	20221
4750	12328	12477	12676	13054	13433	13815	14193	14574	14955	15332	15712	16676	17641	18606	19566
4500	12134	12281	12480	12806	13130	13458	13782	14106	14435	14759	15084	16041	16997	17958	18913
4250	11942	12088	12285	12554	12824	13096	13370	13642	13913	14185	14454	15408	16357	17310	18257
4000	11754	11897	12088	12309	12524	12739	12959	13176	13394	13610	13825	14769	15713	16662	17604
3750	11569	11710	11907	12111	12322	12524	12731	12939	13146	13346	13555	14404	15254	16105	16953
3500	11387	11525	11720	11916	12111	12309	12503	12701	12892	13090	13286	14038	14792	15545	16300
3250	11208	11344	11533	11720	11905	12088	12275	12459	12646	12829	13017	13675	14334	14987	15644
3000	11031	11166	11347	11522	11696	11870	12049	12222	12397	12570	12745	13310	13870	14433	14992
2750	10857	10989	11160	11324	11487	11656	11823	11985	12151	12315	12477	12944	13408	13874	14339
2500	10686	10816	10976	11132	11284	11438	11592	11746	11902	12053	12208	12574	12948	13314	13681
2250	10518	10646	10791	10934	11076	11222	11362	11510	11652	11794	11936	12211	12482	12758	13031
2000	10353	10478	10605	10737	10871	11002	11138	11270	11403	11537	11667	11845	12020	12197	12375
Fitting area for wicket door without threshold															
Clear passage width															

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth						Table price × 2.5
Omission of track panel						Price reduction -237
Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

2-part telescopic fire sliding door EI₂60 made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

► Door leaf weight: 50 kg/m²

► Individual door set weight max. 180 kg

► Exclusive Pearlgrain surface finish

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height

	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000		
	21189	22158	23127	24100	24476	24860	25242	25623	26005	26384	26767	27147	5000	Clear passage height Fitting area for wicket door without threshold
	20529	21493	22457	23419	23744	24072	24402	24731	25060	25387	25715	26044	4750	
	19868	20826	21781	22741	23015	23289	23566	23836	24112	24386	24662	24934	4500	
	19209	20162	21110	22063	22283	22503	22728	22944	23168	23387	23609	23830	4250	
	18548	19497	20438	21382	21552	21716	21885	22052	22223	22388	22558	22728	4000	
	17800	18649	19500	20343	20547	20743	20941	21140	21339	21535	21736	21934	3750	
	17050	17803	18556	19311	19536	19766	19997	20225	20454	20682	20914	21142	3500	
	16303	16958	17613	18273	18531	18790	19051	19312	19569	19831	20090	20347	3250	
	15551	16115	16673	17236	17524	17815	18107	18394	18686	18976	19265	19557	3000	
	14801	15265	15732	16198	16519	16839	17158	17483	17803	18126	18445	18766	2750	
	14053	14423	14791	15159	15514	15862	16218	16565	16918	17270	17620	17973	2500	
	13306	13577	13848	14124	14508	14887	15267	15652	16034	16418	16798	17179	2250	
	12553	12731	12908	13086	13500	13912	14323	14735	15152	15564	15974	16390	2000	
	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	2100	
Fitting area for wicket door without threshold														
Clear passage width														

Wicket / escape door without threshold and equipment

See page 76

Hold-open devices

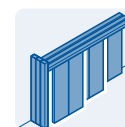
See page 94

Further optional extras

See page 76 – 96

Telescopic fire sliding door FST 60-1-T3 OD

Single-leaf, 3-part (T3)



EL₂60

		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear passage height	5000	15654	15844	16087	16633	17171	17714	18256	18799	19344	19886	20429	21641	22854	24064	25277
	4750	15408	15594	15846	16316	16792	17269	17742	18218	18696	19164	19640	20846	22049	23254	24460
	4500	15165	15349	15602	16009	16417	16824	17225	17632	18043	18450	18855	20052	21246	22445	23641
	4250	14926	15108	15356	15693	16030	16370	16713	17050	17392	17729	18069	19258	20446	21636	22822
	4000	14691	14870	15112	15385	15654	15925	16199	16469	16742	17011	17280	18463	19641	20826	22006
	3750	14459	14636	14881	15136	15399	15654	15913	16176	16432	16681	16946	18006	19067	20130	21189
	3500	14232	14405	14649	14891	15136	15385	15629	15873	16116	16361	16608	17548	18491	19431	20372
	3250	14008	14178	14416	14649	14880	15112	15344	15575	15806	16038	16270	17093	17916	18736	19553
	3000	13787	13955	14185	14403	14620	14841	15059	15278	15497	15712	15932	16636	17336	18040	18738
	2750	13570	13736	13952	14154	14361	14570	14776	14980	15185	15392	15593	16180	16760	17343	17922
	2500	13357	13518	13721	13913	14106	14300	14490	14681	14875	15065	15258	15721	16184	16642	17106
	2250	13146	13306	13490	13665	13844	14028	14203	14385	14565	14745	14921	15261	15605	15945	16288
	2000	12939	13097	13255	13422	13587	13751	13920	14087	14253	14421	14584	14806	15025	15248	15471
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
		Clear passage width														

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth						Table price × 2.5
Omission of track panel						Price reduction -237
Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

3-part telescopic fire sliding door EI₂60 made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

► **Door leaf weight: 50 kg/m²**

► **Individual door set weight max. 180 kg**

► **Exclusive Pearlgrain surface finish**

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height

	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000		
	26485	27697	28907	30121	30597	31075	31551	32027	32505	32984	33458	33936	5000	Clear passage height Fitting area for wicket door without threshold
	25661	26866	28070	29272	29681	30092	30502	30913	31324	31732	32143	32553	4750	
	24836	26030	27229	28426	28769	29112	29457	29798	30139	30482	30828	31168	4500	
	24013	25201	26387	27577	27851	28130	28410	28681	28961	29236	29508	29786	4250	
	23187	24367	25549	26730	26939	27146	27356	27565	27775	27986	28198	28410	4000	
	22247	23312	24372	25432	25683	25930	26175	26425	26669	26917	27166	27419	3750	
	21313	22251	23197	24136	24420	24708	24995	25282	25566	25854	26142	26426	3500	
	20374	21199	22016	22840	23164	23488	23813	24139	24462	24789	25115	25435	3250	
	19440	20141	20840	21544	21904	22266	22632	22993	23356	23720	24081	24446	3000	
	18502	19080	19665	20247	20649	21049	21450	21853	22251	22654	23053	23456	2750	
	17566	18028	18489	18949	19391	19829	20271	20709	21147	21585	22025	22465	2500	
	16633	16969	17312	17654	18131	18609	19083	19566	20042	20521	20996	21471	2250	
	15691	15913	16136	16354	16874	17390	17904	18418	18938	19456	19969	20487	2000	
	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000		
Fitting area for wicket door without threshold														
Clear passage width														

Wicket / escape door without threshold and equipment

See page 76

Hold-open devices

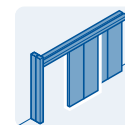
See page 94

Further optional extras

See page 76 – 96

Telescopic fire sliding door FST 90-1-T2 OD

Single-leaf, 2-part (T2)



EI₂90

Clear passage height	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
5000	13778	13944	14156	14637	15112	15588	16066	16546	17020	17502	17977	19045	20111	21178	22243
4750	13560	13725	13944	14359	14776	15197	15612	16031	16450	16865	17282	18344	19405	20466	21522
4500	13346	13509	13727	14087	14444	14803	15160	15517	15879	16235	16592	17645	18697	19753	20805
4250	13137	13296	13513	13810	14107	14405	14706	15006	15305	15603	15900	16949	17992	19040	20083
4000	12930	13086	13296	13539	13777	14013	14256	14494	14733	14970	15207	16246	17284	18328	19366
3750	12726	12881	13098	13322	13553	13777	14004	14234	14460	14681	14910	15844	16779	17716	18648
3500	12526	12678	12892	13107	13322	13539	13753	13971	14181	14399	14614	15442	16271	17100	17931
3250	12328	12478	12687	12892	13095	13296	13503	13705	13910	14112	14319	15042	15768	16486	17208
3000	12134	12282	12482	12674	12865	13058	13253	13444	13637	13828	14020	14641	15257	15876	16492
2750	11943	12089	12276	12457	12635	12822	13006	13183	13365	13547	13725	14238	14750	15261	15773
2500	11755	11898	12073	12245	12412	12582	12752	12921	13093	13258	13429	13832	14242	14645	15049
2250	11569	11710	11870	12027	12184	12345	12499	12661	12818	12973	13129	13432	13730	14034	14334
2000	11388	11526	11666	11811	11959	12101	12252	12397	12543	12691	12835	13030	13222	13416	13613

Fitting area for wicket door **without** threshold

Clear passage width

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth						Table price × 2.5
Omission of track panel						Price reduction -237
Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

2-part telescopic fire sliding door EI₂90 made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

► **Door leaf weight: 50 kg/m²**

► **Individual door set weight max. 180 kg**

► **Exclusive Pearlgrain surface finish**

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height

	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000		
	23308	24374	25440	26509	26925	27346	27766	28185	28605	29024	29444	29862	5000	Clear passage height Fitting area for wicket door without threshold
	22582	23642	24703	25760	26119	26480	26842	27205	27566	27925	28286	28647	4750	
	21855	22908	23960	25014	25317	25618	25922	26220	26523	26824	27129	27427	4500	
	21130	22177	23222	24269	24511	24753	25000	25239	25484	25727	25970	26212	4250	
	20404	21447	22482	23520	23706	23889	24074	24257	24445	24627	24813	25000	4000	
	19581	20514	21449	22377	22601	22818	23035	23254	23472	23689	23910	24127	3750	
	18755	19583	20411	21242	21490	21744	21996	22247	22500	22751	23006	23256	3500	
	17933	18653	19374	20099	20384	20669	20956	21243	21525	21815	22100	22381	3250	
	17107	17726	18341	18960	19275	19596	19917	20233	20554	20874	21191	21512	3000	
	16282	16792	17305	17817	18171	18522	18875	19231	19583	19938	20289	20642	2750	
	15458	15865	16270	16676	17065	17448	17839	18221	18610	18996	19381	19769	2500	
	14637	14935	15233	15536	15958	16376	16793	17217	17638	18060	18478	18897	2250	
	13808	14004	14199	14394	14850	15303	15755	16208	16667	17120	17572	18028	2000	
	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	2100	
Fitting area for wicket door without threshold														
Clear passage width														

Wicket / escape door without threshold and equipment

See page 76

Hold-open devices

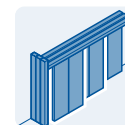
See page 94

Further optional extras

See page 76 – 96

Telescopic fire sliding door FST 90-1-T3 OD

Single-leaf, 3-part (T3)



EI₂90

		Clear passage width														
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear passage height	5000	17219	17429	17696	18296	18888	19486	20081	20680	21278	21875	22473	23805	25138	26470	27805
	4750	16949	17154	17430	17948	18472	18995	19516	20040	20567	21081	21604	22931	24254	25580	26905
	4500	16681	16885	17162	17610	18059	18506	18948	19395	19847	20295	20741	22056	23371	24689	26006
	4250	16419	16618	16892	17262	17634	18006	18384	18755	19131	19503	19875	21184	22491	23799	25105
	4000	16161	16357	16624	16924	17220	17517	17818	18116	18416	18712	19009	20310	21606	22908	24207
	3750	15906	16099	16370	16650	16939	17220	17505	17793	18075	18349	18641	19807	20974	22143	23308
	3500	15655	15845	16115	16380	16650	16924	17192	17461	17727	17998	18268	19303	20339	21373	22409
	3250	15409	15597	15858	16115	16369	16624	16878	17132	17387	17642	17897	18803	19707	20610	21509
	3000	15166	15350	15603	15843	16082	16325	16565	16805	17047	17282	17526	18300	19070	19844	20613
	2750	14927	15109	15346	15570	15797	16027	16253	16477	16704	16931	17153	17797	18436	19077	19715
2500	14692	14871	15093	15305	15517	15730	15939	16149	16362	16571	16783	17293	17802	18306	18816	
2250	14460	14637	14839	15031	15228	15432	15624	15824	16022	16219	16413	16787	17165	17539	17917	
2000	14233	14406	14581	14765	14945	15127	15312	15496	15677	15863	16043	16286	16528	16772	17017	
		Clear passage width														
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth						Table price × 2.5
Omission of track panel						Price reduction -237
Colour coating (for details, see page 74)						
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf	–	60	125	149	212	212
Galvanized door frame, smooth	–	98	180	218	304	304
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours						Surcharge 382

3-part telescopic fire sliding door EI₂90 made of steel

- Tested in accordance with EN 13241 and EN 16034

Standard equipment:

- Product description for standard equipment, see page 5

Optional extras:

- Escape and wicket door (without / with threshold) from page 76
- Fire-resistant glazing, see page 80
- Recess and ceiling flaps from page 92

- Door leaf weight: 50 kg/m²
- Individual door set weight max. 180 kg
- Exclusive Pearlgrain surface finish

The prices do **not** include the hold-open device, including 1 magnet and 1 telescopic anchor.

Calculation basis for direct fitting to the ceiling:

With lintel: clear passage height + lintel = MLH = ceiling height

	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	
	29134	30466	31798	33134	33657	34182	34706	35230	35756	36283	36803	37330	5000
	28226	29552	30877	32199	32650	33100	33552	34004	34457	34905	35358	35808	4750
	27320	28632	29951	31269	31646	32024	32403	32778	33153	33530	33911	34284	4500
	26414	27721	29025	30335	30636	30943	31251	31549	31856	32159	32459	32764	4250
	25505	26803	28105	29402	29633	29860	30092	30321	30552	30785	31018	31251	4000
	24472	25643	26809	27975	28251	28523	28792	29068	29335	29610	29883	30160	3750
	23444	24476	25516	26550	26862	27180	27494	27810	28123	28438	28756	29070	3500
	22412	23318	24218	25124	25480	25837	26195	26553	26908	27268	27628	27979	3250
	21384	22155	22925	23699	24094	24493	24896	25292	25692	26092	26488	26890	3000
	20353	20988	21631	22271	22713	23155	23594	24038	24476	24919	25357	25801	2750
	19322	19830	20338	20844	21330	21812	22299	22780	23262	23744	24227	24712	2500
	18296	18666	19044	19419	19945	20471	20992	21522	22046	22572	23095	23618	2250
	17260	17505	17750	17990	18561	19130	19695	20260	20832	21402	21966	22536	2000
	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	
Fitting area for wicket door without threshold													
Clear passage width													

Clear passage height

Fitting area for wicket door **without** threshold

2100

Wicket / escape door without threshold and equipment	See page 76
Hold-open devices	See page 94
Further optional extras	See page 76 – 96

High-speed multi-purpose sliding door FST S MZ-1

Single-leaf

Up to 2805 mm width

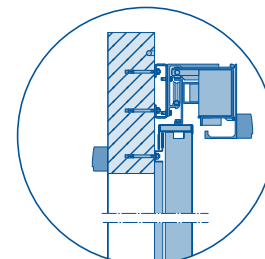


- High-speed steel multi-purpose sliding door
- In panel style, panel width 230 – 1555 mm
- Depth 72 mm, sheet thickness 0.75 mm
- Prepared for operator fitting
- Door leaf without recessed lever handle, without lock
- Door frame with guiding profile, without weight box
- Aluminium track and panel included in the operator package
- Without magnet, without telescopic anchor, without hold-open device

- **Door leaf weight:**
 - With honeycomb infill: 30 kg/m²
 - With mineral wool insulation: 40 kg/m²
- **Max. door leaf weight for operator**
1 × 450 kg, single-leaf
- **Opening widths for single-leaf version**
800 – 2805 mm (larger opening widths on request)

► The stated prices are for the door leaf prepared for an operator.

► For operator (optional) and safety components see page 56



Surface finish:

The entire door is made of Sendzimir-galvanized material without primer coating.
Standard surface finish version Pearlgain or alternatively smooth sheet steel.

Fitting area for wicket door without threshold	2100	Clear passage height	4000 *	3344	3546	3751	3954	4157	4359	4561	-	-	
			3750	3301	3494	3683	3874	4064	4252	4443	-	-	
			3500	3259	3441	3616	3793	3969	4149	4325	4503	4593	
			3250	3219	3383	3549	3716	3878	4042	4206	4371	4454	
			3000	3177	3327	3482	3636	3784	3937	4090	4241	4318	
			2750	3137	3275	3412	3555	3695	3833	3969	4111	4179	
			2500	3096	3221	3345	3472	3601	3726	3851	3980	4044	
			2250	3054	3167	3281	3396	3508	3621	3734	3849	3904	
			2000	3013	3111	3215	3316	3412	3518	3617	3719	3770	
				1000	1250	1500	1750	2000	2250	2500	2750	2805 *	
Fitting area for wicket door without threshold													
Clear passage width													

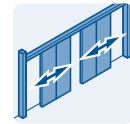
* Larger doors available on request after technical clarification. Operator speed reduced, if necessary.
At a maximum width of 2805 mm, a maximum height of 3500 mm is possible.
The maximum height of 4000 mm is available up to a width of 2480 mm.

Door leaf versions						Surcharge €
Pearlgain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth						Table price × 2.5
Door leaf infill with mineral wool insulation instead of honeycomb infill						Per m ² 91
Colour coating (for details, see page 74)						€
Surface finish galvanized Pearlgain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf and door frame	–	98	180	218	304	304
Operators for single-leaf doors						See page 56
Further optional extras						See page 76 – 96

High-speed multi-purpose sliding door FST S MZ-2

Double-leaf

Up to 3000 mm width

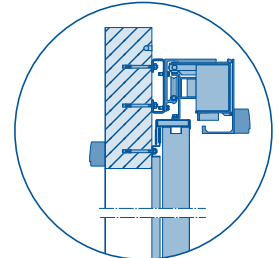


- High-speed steel multi-purpose sliding door
- In panel style, panel width 230 – 1555 mm
- Depth 72 mm, sheet thickness 0.75 mm
- Prepared for operator fitting
- Door leaf without recessed lever handle, without lock
- Door frame with guiding profile, without weight box
- Aluminium track and panel included in the operator package
- Without magnet, without telescopic anchor, without hold-open device

- **Door leaf weight:**
 - With honeycomb infill: 30 kg/m²
 - With mineral wool insulation: 40 kg/m²
- **Max. door leaf weight for operator 2 x 300 kg, double-leaf**
- **Opening widths for double-leaf version 1500 – 3000 mm** (larger opening widths on request)

► The stated prices are for the door leaf prepared for an operator.

► For operator (optional) and safety components see page 56



Surface finish:

The entire door is made of Sendzimir-galvanized material without primer coating. Standard surface finish version Pearlgrain or alternatively smooth sheet steel.

Fitting area for wicket door without threshold	2100	Clear passage height	4000 *	7451	7527	7605	7743	7878	8016	8151
			3750	7338	7411	7488	7617	7748	7878	8007
			3500	7227	7299	7372	7497	7617	7743	7864
			3250	7109	7180	7254	7372	7488	7605	7721
			3000	6996	7065	7141	7250	7359	7467	7576
			2750	6879	6949	7019	7122	7229	7328	7436
			2500	6764	6831	6905	7000	7096	7197	7292
			2250	6650	6717	6788	6877	6967	7058	7148
			2000	6547	6613	6673	6753	6838	6924	7005
			1500	1750	2000	2250	2500	2750	3000 *	
Clear passage width										
			Fitting area for wicket door without threshold							

* Larger doors available on request after technical clarification. Operator speed reduced, if necessary.

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth						Table price x 2.5
Door leaf infill with mineral wool insulation instead of honeycomb infill						Per m ² 91
Colour coating (for details, see page 74)						€
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf and door frame	–	98	180	218	304	304
Operators for double-leaf doors						See page 56
Further optional extras						See page 76 – 96

High-speed fire sliding door FST S 30-1

Single-leaf

Up to 2805 mm width

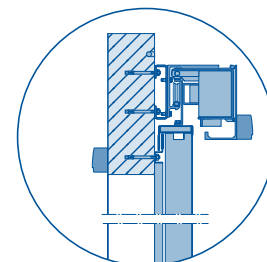


- High-speed steel fire sliding door
- Tested in accordance with EN 16341-1
- In panel style, panel width 230 – 1555 mm
- Depth 72 mm, sheet thickness 0.75 mm
- With fire-retarding insulation
- Prepared for operator fitting
- Door leaf without recessed lever handle, without lock
- Door frame with guiding profile, without weight box
- Aluminium track and panel included in the operator package
- Without magnet, without telescopic anchor, without hold-open device

- Door leaf weight 40 kg/m²
- Max. door leaf weight for operator 1 x 450 kg, single-leaf
- Opening widths for single-leaf version 800 – 2805 mm (larger opening widths on request)
- **Note: Please contact the factory prior to ordering (product currently without CE marking)**

► The stated prices are for the door leaf prepared for an operator including top labyrinth profile, therefore the door leaf can also be ordered without an operator.

► For operator (optional) and safety components see page 56



Surface finish:

The entire door is made of Sendzimir-galvanized material without primer coating.
Standard surface finish version Pearlgrain or alternatively smooth sheet steel.

Fitting area for wicket door without threshold	2100	Clear passage height	4000 *	4178	4432	4686	4939	5193	5449	5701	-	-
			3750	4127	4365	4603	4840	5077	5313	5551	-	-
			3500	4074	4297	4519	4738	4962	5184	5402	5629	5738
			3250	4021	4231	4433	4642	4846	5052	5257	5462	5568
			3000	3972	4162	4350	4541	4730	4919	5112	5301	5395
			2750	3918	4092	4267	4441	4615	4789	4962	5137	5225
			2500	3868	4025	4181	4340	4500	4659	4815	4974	5053
			2250	3814	3957	4098	4241	4385	4526	4668	4810	4880
			2000	3763	3889	4018	4144	4267	4394	4521	4645	4712
			1000	1250	1500	1750	2000	2250	2500	2750	2805 *	
Fitting area for wicket door without threshold												
Clear passage width												

* Larger doors available on request after technical clarification. Operator speed reduced, if necessary.
At a maximum width of 2805 mm, a maximum height of 3500 mm is possible.
The maximum height of 4000 mm is available up to a width of 2480 mm.

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth						Table price x 2.5
Colour coating (for details, see page 74)						€
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf and door frame	–	98	180	218	304	304
Operators for single-leaf doors						See page 56
Further optional extras						See page 76 – 96

High-speed fire sliding door FST S 30-2

Double-leaf

Up to 3000 mm width



El₂30

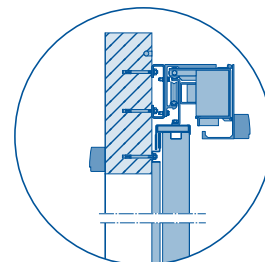
- High-speed steel fire sliding door
- Tested in accordance with EN 16341-1
- In panel style, panel width 230–1555 mm
- Depth 72 mm, sheet thickness 0.75 mm
- With fire-retarding insulation
- Prepared for operator fitting
- Door leaf without recessed lever handle, without lock
- Door frame with guiding profile, without weight box
- Aluminium track and panel included in the operator package
- Without magnet, without telescopic anchor, without hold-open device

- Door leaf weight 40 kg/m²
- Max. door leaf weight for operator 2 × 300 kg, double-leaf
- Opening widths for double-leaf version 1500–3000 mm (larger opening widths on request)

► **Note: Please contact the factory prior to ordering (product currently without CE marking)**

► The stated prices are for the door leaf prepared for an operator including top labyrinth profile, therefore the door leaf can also be ordered without an operator.

► For operator (optional) and safety components see page 56



Surface finish:

The entire door is made of Sendzimir-galvanized material without primer coating. Standard surface finish version Pearlgrain or alternatively smooth sheet steel.

Fitting area for wicket door without threshold	2100	Clear passage height	4000 *	9315	9408	9503	9675	9844	10015	10187
			3750	9169	9262	9353	9521	9683	9844	10009
			3500	9030	9120	9164	9367	9521	9675	9829
			3250	8883	8971	9064	9214	9359	9503	9650
			3000	8742	8830	8922	9060	9196	9333	9468
			2750	8600	8686	8775	8904	9034	9163	9292
			2500	8455	8539	8628	8749	8871	8994	9117
			2250	8310	8393	8482	8596	8708	8819	8935
			2000	8181	8263	8339	8442	8546	8652	8755
						1500	1750	2000	2250	2500
Clear passage width										
Fitting area for wicket door without threshold										

* Larger doors available on request after technical clarification. Operator speed reduced, if necessary.

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth						Table price × 2.5
Colour coating (for details, see page 74)						€
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf and door frame	–	98	180	218	304	304
Operators for double-leaf doors						See page 56
Further optional extras						See page 76–96

Operators and optional extras for high-speed sliding doors FST S

MZ

EI₂30

Operator for single-leaf doors, silver-coloured, cover with natural aluminium finish			Article no.	€
Operator Tormax IMotion 2401: Opening speed 40 – 100 cm/s, closing speed 4 – 80 cm/s (Speed information per door leaf, depending on door weight, opening width and valid regulations) Including: Raw aluminium transom profile, track profile, track cover, monitored battery unit, control panel, including 10 m connection cable, including track rubber	Per operator		2017106	9669
Safety sensor Tormax 7501 (for use as secondary and main closing edge safety device) Active infrared, with door learning function. Maximum detection area: 3500 mm deep, 3000 mm wide. Fitting height: 1800 – 3000 mm	Each		2017107	765
Safety sensor Bea LZR-i110 (from LDM > 3000 mm or as an alternative to Tormax 7501) Premium protection solution based on light travel time measurement. Dynamic orientation via laser beams on 4 detection levels	Each		2017109	2123
Electro-magnetic locking (including lock unit and locking hook, including emergency release / manual release)	Each		2017110	817
Cladding profile inside – cladding the distance from the transom profile to the door leaf (optional) Flat rate per system			2017111	377
Operator for double-leaf doors, silver-coloured, cover with natural aluminium finish			Article no.	€
Operator Tormax IMotion 2401: Opening speed 40 – 100 cm/s, closing speed 4 – 80 cm/s (Speed information per door leaf, depending on door weight, opening width and valid regulations) Including: Raw aluminium transom profile, track profile, track cover, monitored battery unit, control panel, including 10 m connection cable, including track rubber	Per operator		2017112	10346
Safety sensor Tormax 7501 (for use as secondary and main closing edge safety device) Active infrared, with door learning function. Maximum detection area: 3500 mm deep, 3000 mm wide. Fitting height: 1800 – 3000 mm	Each		2017107	765
Safety sensor Bea LZR-i110 (from LDM > 3000 mm or as an alternative to Tormax 7501) Premium protection solution based on light travel time measurement. Dynamic orientation via laser beams on 4 detection levels	Each		2017109	2123
Electro-magnetic locking (including lock unit and locking hook, with emergency release)	Each		2017110	817
Cladding profile inside – cladding the distance from the transom profile to the door leaf (optional) Flat rate per system			2017111	377

Notice:

For all high-speed sliding doors FST S, a risk analysis must be carried out during planning or for the actual fitting situation!

Operator cover colour coating			Article no.	€
Surcharge for anodised colourless operator cover	Surcharge		2017113	479
Surcharge for operator cover in RAL to choose matching door leaf	Surcharge		2017114	597
Operation				€
Operation				
Control panel MCU32-USIN-7-A (operating unit) (replacement)	Each		2017115	394
Installation kit for control panel EDIZIO – for fitting of the safety sensors to the ceiling (optional)	Each		2017116	80
Surface-mounted frame 1 x 1 EDIZIO, height: 54 mm – for surface-mounted fitting of the safety sensors to the ceiling (optional)	Each		2017117	27
Accessories				€
I/O module MCU32-INOUE-A with module carrier (input / output module) (optional)	Each		2017118	614
Relay module MCU32-RELA-24-1-A without module carrier (optional)	Each		2017119	112
Monitored battery unit 7 Ah MCU32-MBTU-24-7-A (replacement)	Each		2017121	986
Operator doubling profile 35 mm for fitting operator IMotion 2401 for on-site Tormax operator	Each		2017733	366

Further optional extras

See page 76 – 96

Notes and sketches

Vertical fire sliding door FHT OD MZ-1

Single-leaf

EL₂30

		1600	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
		1600	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
Clear passage height	6125	23994	24522	25062	25614	26176	26752	27341	27942	28557	29185	29828	30484	31154	31839
	6000	23409	23924	24450	24988	25538	26100	26674	27261	27861	28474	29100	29741	30394	31063
	5750	22838	23341	23854	24378	24915	25463	26023	26596	27181	27779	28390	29014	29653	30305
	5500	22281	22771	23272	23784	24307	24842	25388	25947	26518	27101	27698	28307	28930	29566
	5250	21738	22216	22705	23204	23714	24236	24769	25314	25871	26441	27022	27616	28224	28845
	5000	21207	21674	22150	22638	23136	23646	24166	24697	25241	25795	26362	26943	27536	28142
	4750	20690	21146	21610	22086	22572	23069	23576	24094	24625	25166	25720	26286	26865	27455
	4500	20186	20630	21083	21547	22022	22506	23001	23507	24024	24553	25093	25645	26209	26786
	4250	19694	20126	20569	21022	21484	21957	22440	22934	23438	23954	24480	25019	25570	26132
	4000	19213	19636	20068	20510	20960	21422	21892	22374	22866	23370	23884	24409	24946	25495
	3750	16299	16658	17024	17399	17782	18173	18572	18981	19399	19826	20262	20707	21163	21629
	3500	15902	16252	16610	16974	17348	17730	18120	18518	18926	19342	19767	20203	20647	21101
	3250	15514	15855	16204	16561	16925	17298	17678	18066	18464	18870	19286	19710	20143	20586
	3000	15136	15468	15809	16156	16512	16875	17246	17626	18014	18410	18815	19230	19652	20085
	2750	8859	9055	9254	12610	12887	13171	13461	17196	17574	17962	18356	18760	19172	19594
	2500	8644	8834	9028	12302	12573	12850	13133	16777	17146	17523	17909	18302	18705	19117
	2250	8433	8618	8808	12002	12266	12536	12812	13258	13550	13848	14152	14464	14782	15106
	2000	8227	8408	8594	11710	11967	12230	12500	12934	13219	13510	13806	14110	14421	14738
	1750	8022	8198	8378	11418	11668	11925	12187	12610	12889	13172	13462	13758	14061	14370
	1500	7822	7994	8169	11131	11376	11626	11882	12296	12566	12842	13125	13414	13709	14010
	1290	7626	7794	7965	10854	11092	11336	11585	11988	12252	12522	12797	13079	13366	13661
		1600	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
		Clear passage width													

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Door leaf infill with mineral wool instead of honeycomb infill						Per m ² 91
Colour coating (for details, see page 74)						
Surface finish smooth sheet steel, galvanized	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Door leaf, side guide and weight box coated	–	98	180	218	304	304

Vertical fire sliding door FHT OD MZ-1 made of steel

Standard equipment:

- Product description for standard equipment, see page 8
- With counter weight
- Roller carriers and roller units in galvanized version as standard
- As standard with spur gear motor, 400 V

- Door leaf weight: 40 kg/m²
- Individual door set weight max. 180 kg
- Max. door leaf weight 1100 kg

The prices do not include the hold-open device control, but do include the spur gear motor incl. pre-assembled cable set and motor plug for connecting the motor.

4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	
	32540	33256	33988	34735	35500	36280	37078	37894	38728	6125
	31746	32445	33158	33888	34634	35396	36174	36970	37783	6000
	30972	31654	32350	33061	33789	34532	35292	36068	36862	5750
	30216	30882	31561	32255	32965	33690	34431	35189	35963	5500
	29479	30128	30791	31468	32161	32868	33591	34330	35086	5250
	28761	29393	30040	30702	31376	32066	32773	33494	34230	5000
	28059	28676	29307	29952	30610	31285	31973	32676	33395	4750
	27374	27978	28592	29222	29865	30522	31193	31879	32580	4500
	26706	27295	27895	28509	29136	29778	30432	31102	31786	4250
	26055	26629	27214	27814	28426	29050	29690	30343	31011	4000
	22105	22590	23088	23596	24115	24646	25188	25742	26308	3750
	21566	22040	22525	23020	23527	24044	24574	25114	25666	3500
	21039	21502	21975	22458	22953	23458	23974	24502	25040	3250
	20526	20978	21439	21910	22394	22886	23390	23904	24430	3000
	20026	20466	20916	21377	21847	22328	22818	23321	23834	2750
	19538	19967	20406	20855	21314	21783	22262	22751	23253	2500
	15438	15778	16126	16481	16843	17214	17592	17980	18375	2250
	15063	15394	15733	16079	16432	16794	17163	17541	17927	2000
	14686	15009	15339	15677	16022	16374	16734	17103	17479	1750
	14319	14634	14956	15285	15621	15965	16316	16675	17042	1500
	13961	14268	14582	14902	15230	15566	15908	16258	16616	1290
4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	

Clear passage height

Clear passage width

Hold-open device control (mandatory)					€	
Control FSA-FLEXControl for vertical sliding doors, 400 V (without emergency power supply)				Surcharge	2025	
Control FAA-Plus for vertical sliding doors, 400 V (with emergency power supply)				Surcharge	2614	
Emergency battery 12 V / 7 Ah for control FAA-Plus (required 2 x)				Surcharge	110	
Optional extras					Article no.	€
1	Wicket / escape door for galvanized or coated vertical sliding doors:		1000 x 2000 mm (standard)	MZ	2017013	2246
2	Wicket door threshold rail 22 mm (for additional stability)			Surcharge each	2017054	261
	Recommended if the vertical sliding door is not in an escape route.					

Notice: Wicket door monitoring required. For further optional extras for wicket / escape doors, see page 77 section 1.2

Further optional extras	See page 64
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Vertical fire sliding door type FHT OD 30-1

Single-leaf

EL₂30

		1600	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
		1600	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
Clear passage height	6125	25494	26055	26628	27214	27812	28424	29050	29689	30342	31009	31692	32389	33102	33829
	6000	24872	25419	25979	26550	27134	27731	28341	28965	29602	30253	30919	31600	32294	33005
	5750	24265	24800	25345	25902	26472	27055	27650	28258	28880	29515	30165	30828	31506	32199
	5500	23673	24194	24727	25271	25826	26394	26975	27569	28175	28795	29429	30076	30738	31413
	5250	23096	23605	24124	24654	25197	25751	26317	26897	27488	28093	28711	29342	29988	30648
	5000	22533	23029	23535	24053	24582	25123	25676	26240	26818	27407	28010	28627	29257	29900
	4750	21984	22467	22961	23467	23983	24511	25050	25600	26164	26739	27328	27929	28544	29171
	4500	21447	21919	22401	22894	23398	23912	24438	24976	25526	26087	26661	27248	27847	28460
	4250	20924	21384	21854	22335	22827	23329	23843	24367	24903	25451	26010	26583	27168	27765
	4000	20414	20863	21322	21791	22270	22760	23260	23772	24296	24830	25377	25934	26506	27089
	3750	17318	17700	18088	18487	18893	19309	19733	20167	20612	21065	21528	22001	22486	22981
	3500	16896	17268	17648	18035	18432	18838	19253	19676	20108	20550	21003	21466	21938	22420
	3250	16484	16846	17217	17596	17983	18379	18782	19196	19618	20050	20491	20941	21402	21873
	3000	16082	16435	16797	17166	17544	17930	18324	18727	19139	19561	19991	20431	20880	21340
	2750	9413	9621	9832	13398	13693	13994	14302	18271	18673	19084	19503	19933	20370	20819
	2500	9184	9387	9592	13071	13359	13653	13954	17825	18217	18618	19028	19446	19874	20312
	2250	8960	9157	9359	12753	13033	13320	13613	14086	14396	14714	15037	15368	15705	16051
	2000	8741	8934	9131	12441	12715	12995	13281	13743	14045	14354	14669	14992	15322	15660
	1750	8523	8711	8902	12131	12397	12670	12949	13399	13694	13995	14303	14617	14940	15268
	1500	8310	8493	8679	11827	12087	12353	12625	13065	13352	13645	13945	14252	14566	14886
	1290	8102	8281	8463	11532	11785	12045	12309	12737	13018	13304	13597	13897	14201	14515
		1600	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
		Clear passage width													

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Colour coating (for details, see page 74)						
Surface finish smooth sheet steel, galvanized	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Door leaf, side guide and weight box coated	–	98	180	218	304	304

Vertical fire sliding door HT FST EI₂30 made of steel

Standard equipment:

- Product description for standard equipment, see page 8
- With counter weight
- Roller carriers and roller units in galvanized version as standard
- As standard with spur gear motor, 400 V

- Door leaf weight: 50 kg/m²
- Individual door set weight max. 180 kg
- Max. door leaf weight 1100 kg

The prices do not include the hold-open device control, but do include the spur gear motor incl. pre-assembled cable set and motor plug for connecting the motor with the hold-open device control

4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	
	34574	35335	36112	36906	37719	38548	39396	40263	41149	6125
	33731	34473	35231	36006	36798	37608	38435	39281	40145	6000
	32908	33632	34371	35127	35901	36690	37498	38322	39165	5750
	32105	32812	33533	34271	35025	35795	36583	37388	38211	5500
	31322	32011	32716	33435	34171	34922	35691	36475	37278	5250
	30558	31230	31918	32620	33337	34071	34821	35587	36370	5000
	29813	30468	31139	31824	32524	33240	33971	34718	35482	4750
	29085	29726	30379	31048	31731	32429	33142	33872	34616	4500
	28376	29001	29639	30291	30957	31639	32334	33045	33772	4250
	27684	28293	28915	29552	30202	30866	31546	32240	32949	4000
	23486	24002	24531	25071	25622	26186	26762	27350	27952	3750
	22913	23418	23933	24459	24998	25547	26109	26683	27271	3500
	22354	22845	23349	23862	24387	24925	25473	26033	26605	3250
	21808	22289	22779	23280	23793	24316	24851	25398	25956	3000
	21277	21746	22223	22713	23213	23724	24245	24778	25324	2750
	20759	21215	21681	22159	22647	23145	23654	24173	24706	2500
	16403	16765	17134	17511	17896	18289	18692	19104	19524	2250
	16005	16357	16716	17084	17459	17844	18236	18637	19048	2000
	15604	15947	16298	16657	17024	17398	17780	18172	18572	1750
	15214	15548	15891	16240	16597	16963	17336	17717	18107	1500
	14833	15160	15493	15834	16182	16538	16902	17274	17655	1290
4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	
Clear passage width										Clear passage height

Hold-open device control (mandatory)			€
Control FSA-FLEXControl for vertical sliding doors, 400 V (without emergency power supply)	Surcharge		2025
Control FAA-Plus for vertical sliding doors, 400 V (with emergency power supply)	Surcharge		2614
Emergency battery 12 V / 7 Ah for control FAA-Plus (required 2 x)	Surcharge		110

Optional extras				Article no.	€
1	Wicket / escape door for galvanized or coated vertical sliding doors:	1000 x 2000 mm (standard)	EI ₂ 30	2015144	2459
2	Wicket door threshold rail 22 mm (for additional stability)		Surcharge each	2017054	261
	Recommended if the vertical sliding door is not in an escape route.				

Notice: Wicket door monitoring required. For further optional extras for wicket / escape doors, see page 77 section 1.2

Further optional extras	See page 64
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Vertical fire sliding door type FHT OD 90-1

Single-leaf

EI₂90

		1600	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
		1600	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
Clear passage height	6125	29993	30653	31327	32017	32720	33440	34176	34928	35696	36481	37285	38105	38943	39799
	6000	29261	29905	30563	31235	31922	32625	33342	34076	34826	35592	36375	37176	37993	38829
	5750	28547	29176	29818	30473	31144	31829	32529	33245	33976	34724	35488	36268	37066	37881
	5500	27851	28464	29090	29730	30384	31052	31735	32434	33147	33876	34622	35384	36162	36957
	5250	27172	27770	28381	29005	29643	30295	30961	31643	32339	33051	33778	34520	35280	36056
	5000	26509	27093	27688	28298	28920	29557	30207	30871	31551	32244	32953	33679	34420	35177
	4750	25863	26432	27013	27608	28215	28836	29470	30118	30781	31458	32150	32858	33581	34319
	4500	25232	25787	26354	26934	27527	28132	28751	29384	30030	30691	31366	32056	32761	33482
	4250	24617	25158	25711	26277	26855	27446	28050	28667	29298	29942	30600	31274	31962	32665
	4000	24016	24545	25085	25637	26200	26777	27365	27967	28583	29212	29855	30511	31183	31869
	3750	20374	20823	21280	21749	22227	22716	23215	23726	24249	24782	25327	25884	26454	27036
	3500	19878	20315	20762	21218	21685	22162	22650	23148	23657	24177	24709	25254	25809	26376
	3250	19393	19819	20255	20701	21156	21622	22097	22583	23080	23588	24107	24637	25179	25733
	3000	18920	19335	19761	20195	20640	21094	21558	22032	22517	23013	23519	24037	24565	25106
	2750	11074	11319	11567	15762	16109	16464	16826	21495	21968	22452	22945	23450	23965	24493
	2500	10805	11043	11285	15378	15716	16062	16416	20971	21432	21904	22386	22878	23381	23896
	2250	10541	10773	11010	15003	15333	15670	16015	16572	16937	17310	17690	18080	18477	18883
	2000	10284	10510	10742	14637	14959	15288	15625	16168	16524	16887	17258	17638	18026	18423
	1750	10027	10248	10473	14272	14585	14906	15234	15763	16111	16465	16827	17197	17576	17962
	1500	9777	9992	10211	13914	14220	14533	14853	15370	15708	16053	16406	16767	17136	17513
	1290	9532	9742	9956	13567	13865	14170	14481	14985	15315	15652	15996	16349	16707	17076
		1600	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
		Clear passage width													

Door leaf versions						Surcharge €
Pearlgrain, galvanized (standard)						No surcharge
Smooth sheet steel, galvanized						Surcharge flat rate 143
Colour coating (for details, see page 74)						
Surface finish smooth sheet steel, galvanized	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Door leaf, side guide and weight box coated	–	98	180	218	304	304

Vertical fire sliding door HT FST E₁₂ 90 made of steel

Standard equipment:

- Product description for standard equipment, see page 8
- With counter weight
- Roller carriers and roller units in galvanized version as standard
- As standard with spur gear motor, 400 V

- Door leaf weight: 50 kg/m²
- Individual door set weight max. 180 kg
- Max. door leaf weight 1100 kg

The prices do not include the hold-open device control, but do include the spur gear motor incl. pre-assembled cable set and motor plug for connecting the motor with the hold-open device control

4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	
40675	41570	42485	43419	44375	45350	46348	47368	48410		6125
39683	40556	41448	42360	43292	44245	45218	46213	47229		6000
38715	39567	40437	41326	42236	43165	44115	45085	46077		5750
37770	38602	39451	40319	41206	42112	43039	43986	44954		5500
36849	37660	38489	39335	40201	41085	41989	42912	43857		5250
35951	36741	37550	38377	39220	40083	40966	41867	42788		5000
35074	35845	36634	37440	38263	39106	39966	40845	41744		4750
34218	34972	35740	36527	37331	38152	38991	39849	40725		4500
33383	34119	34869	35636	36420	37222	38040	38877	39732		4250
32569	33286	34018	34767	35532	36313	37113	37929	38764		4000
27631	28238	28860	29495	30144	30807	31485	32177	32885		3750
26957	27550	28156	28775	29409	30055	30717	31392	32083		3500
26299	26877	27469	28073	28691	29323	29968	30627	31300		3250
25657	26222	26799	27388	27992	28607	29237	29880	30537		3000
25032	25583	26145	26721	27309	27910	28523	29151	29793		2750
24422	24959	25507	26069	26643	27229	27828	28439	29066		2500
19298	19723	20158	20601	21054	21517	21990	22475	22969		2250
18829	19243	19666	20099	20540	20993	21454	21926	22409		2000
18358	18761	19174	19596	20028	20468	20918	21379	21849		1750
17899	18292	18695	19106	19526	19956	20395	20844	21302		1500
17451	17835	18227	18628	19038	19457	19885	20322	20770		1290
4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	

Clear passage width

Clear passage height

Hold-open device control (mandatory)			€
Control FSA-FLEXControl for vertical sliding doors, 400 V (without emergency power supply)	Surcharge		2025
Control FAA-Plus for vertical sliding doors, 400 V (with emergency power supply)	Surcharge		2614
Emergency battery 12 V / 7 Ah for control FAA-Plus (required 2 x)	Surcharge		110

Optional extras				Article no.	€
1	Wicket / escape door for galvanized or coated vertical sliding doors:	1000 x 2000 mm (standard)	EI ₂ 90	2015145	3275
2	Wicket door threshold rail 22 mm (for additional stability)		Surcharge each	2017054	261
	Recommended if the vertical sliding door is not in an escape route.				

Notice: Wicket door monitoring required. For further optional extras for wicket / escape doors, see page 77 section 1.2

Further optional extras	See page 64
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Optional extras

For vertical sliding doors FHT OD

► The following prices are only valid in combination with a vertical fire sliding door and are surcharge items.

1 Hold-open devices for vertical sliding door as fire-rated door FSA			
1.1 Hold-open devices description			
11	Hold-open device for vertical sliding doors Consisting of: • Hold-open device FSA-FLEXControl incl. acoustic alarm system and integrated "Close" push button • Smoke detector including fitting base (note the required number and arrangement, see page 99) • Optional: Optical / acoustic alarm system FSA-OAW incl. 2 x flashing warning light, additional manual release button under glass, smoke detector		
1.2 Hold-open device controls		Article no.	€
1	Control FSA-FLEXControl For use of vertical sliding door as fire-rated door FSA, 400 V	2017630	2025
	Flashing warning light for direct connection to FSA-FLEXControl	Each 2017608	85
2	Control FAA-Plus For use with vertical sliding doors, 400 V	Each 2033295	2614
3	Emergency battery 12 V / 7 Ah for control FAA-Plus (required 2 x)	2033816	110
4	Optical and acoustic alarm system FSA-OAW With capacitor buffering for power failures	Each 2033182	416
	Flashing warning light for connection to the FSA-OAW	Each 2017608	85
1.3 Fire detector		Article no.	€
1	Optical smoke detector H-RM-4070 (set including fitting base) ► Note the required number and arrangement, see page 99	Per set 4840016	227
2	Heat sensor H-TM-4070 (set including fitting base) Is used if dust, smoke or steam is to be expected during operation ► Note the required number and arrangement, see page 99	Per set 4840017	237
	Important: Must not be used for doors in escape and rescue routes!		
3	Smoke detector mounting bracket (steel) For lintel fitting on the opposite door side (standard). Suitable for optical smoke detectors and thermal smoke detectors	Galvanized Each 2033856	16
4	Extended smoke detector mounting bracket (steel) Galvanized, for lintel fitting. Suitable for optical smoke detectors and thermal smoke detectors	L: 541.5 mm Each 2015416	107
		L: 700 mm Each 2033854	113
1.4 Additional components for hold-open devices		Article no.	€
1	Manual release button FSA-Callpoint, Basis version , (with glass safety pane)	Each 2033187	577
2	Manual release button FSA-Callpoint, SAFE version (with glass safety pane)	Each 2033185	577
3	Push button , Open / Close	Each 2033710	121
4	Mains lead , length 1 m with CEE plug For hold-open device control FSA-FLEXControl	Each 638094	54
2 Hold-open devices for vertical sliding doors with automated guided vehicle system (FTS)			
2.1 Description			
1	Conveyor system door control FAA-Plus for automated guided vehicle systems (FTS) The conveyor system control FAA-Plus for vertical sliding doors (EI ₂ 30, EI ₂ 90) for track-bound conveyor systems using automated guided vehicle systems FTS (section 2.2 – 1 + 2)		
2.2 Conveyor system door components for FTS system incl. approval by an expert		Article no.	€
1	Control FAA-Plus	Each 2033295	2614
2	Limit switch incl. mounting plate	Each 2017685	245
3	Approval by an expert (only in Germany) According to construction technique permit for FAA-Plus (after order placement, acceptance takes place within max. 6 weeks) Important: Orders are generally placed via the regional sales office. Order placement via the factory is possible in special cases.	Basic price for 1 door	5974
		Each additional door	1557
4	Control heating FAA PLUS for cold store areas (e.g. -24°C / -24°C) Thermostat: Switching point 5°C consisting of: • Foil heating for keypad: 24 V – 17 W • Control heating: 230 V AC – 0.44 A – 100 W	Surcharge for section 1	970
3 Miscellaneous			
1	Handle in stainless steel with guiding element	Each 2015064	102
2	Recessed handle stainless steel with guiding element	2015066	110
3	Damper for vertical sliding door incl. fixing bracket (required 2 x)	Each 2036854	236
4	Magnetic contact (surface-mounted on door leaf)	Per leaf 2015124	194
5	Gear drive for cold store areas (with special oil for use in cold store areas up to -40°C)	4840161	178

Notes and sketches

Multi-purpose hinged garage door DFT MZ-1

Single-leaf

MZ

Steel multi-purpose hinged garage door DFT FST MZ-1

Standard equipment:

- Product description for standard equipment, see page 9
- Depth 72 mm, sheet thickness 0.75 mm
- Flush, fully bonded tongue-and-groove element connection
- Element thickness / door leaf thickness 72 mm

Surface finish:

- The entire door is made of Sendzimir-galvanized material without primer coating. Standard surface finish version Pearlgrain or alternatively smooth sheet steel.

► Door leaf weight with mineral wool insulation: 40 kg/m²

► Individual door set weight max. 150 kg

The prices do not include the hold-open device, including 1 black plastic lever handle set, round escutcheon

Clear passage height	Clear passage width															
	1300	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
5000	9404	9596	9958	10513	11064	11612	12417	12986	13547	14106	14973	15549	15861	16257	16663	17080
4750	9175	9362	9669	10207	10742	11275	12055	12608	13152	13695	14537	15096	15250	15632	16022	16423
4500	8951	9134	9388	9910	10428	10946	11705	12241	12769	13296	14114	14657	14664	15030	15407	15792
4250	8761	8940	9188	9702	10209	10717	11342	11862	12376	12887	13544	14064	14100	14452	14814	15184
4000	8577	8752	8994	9497	9994	10493	10990	11496	11994	12490	12995	13495	13557	13896	14244	14600
3750	8390	8561	8800	9266	9735	10205	10670	11140	11609	12081	12547	13015	13036	13362	13696	14039
3500	8201	8369	8602	9035	9476	9915	10349	10789	11225	11663	12097	12537	12535	12848	13169	13499
3250	8014	8178	8406	8813	9219	9622	10024	10435	10840	11246	11650	12058	12053	12354	12662	12979
3000	7826	7985	8208	8584	8960	9333	9708	10084	10453	10830	11204	11579	11589	11879	12176	12480
2750	7638	7794	8012	8359	8699	9039	9384	9728	10070	10416	10753	11097	11144	11422	11708	12001
2500	5819	5937	6108	6355	8440	8751	9064	9374	9685	9995	10310	10621	10714	10983	11257	11539
2250	5668	5783	5950	6171	8183	8460	8740	9022	9304	9581	9861	10143	10302	10560	10825	11095
2000	5519	5632	5795	5993	7920	8168	8416	8668	8920	9164	9414	9664	9907	10154	10408	10668

Optional extras	€
Tandem overhead door closer TS 4000, silver-coloured	479
Lintel spacer for tandem overhead door closer TS 4000	106
Lever handle set in stainless steel, prepared for profile cylinder, rose escutcheon version type D-110	200
Lever handle set in aluminium, prepared for profile cylinder, rose escutcheon version type D-110	127
Sports hall recessed lever, stainless steel	340
Profile cylinder (PC) 45.5 + 45.5	41
Frame insulation package	255

Door leaf surface finishes	
Pearlgrain, galvanized (standard)	No surcharge
Smooth sheet steel, galvanized	Surcharge flat rate 143

Colour coating						
Surface finish smooth sheet steel, galvanized	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf and door frame	–	98	180	218	304	304
Door leaf and door frame powder-coated in different colours					Surcharge	382

Fire-rated hinged garage door DFT 30-1 OD

Single-leaf

EI₂30

Fire-rated hinged garage door DFT FST EI₂30-1 made of steel

Standard equipment:

- Product description for standard equipment, see page 9
- Not available with wicket door!
- Depth 72 mm, sheet thickness 0.75 mm
- Flush, fully bonded tongue-and-groove element connection
- Element thickness / door leaf thickness 72 mm

Surface finish:

- The entire door is made of Sendzimir-galvanized material without primer coating. Standard surface finish version Pearlgrain or alternatively smooth sheet steel.

► Door leaf weight: 45 kg/m²

► Individual door set weight max. 150 kg

The prices do **not** include the hold-open device, including

- 1 magnet for wall fitting with angle adjustment counterplate
- 1 tandem overhead door closer TS 4000
- 1 lever handle set in black plastic, round escutcheon

Clear passage height	4500	9870	10123	10645	11165	11682	12440	12976	13506	14032	14850	15392
	4250	9676	9924	10438	10944	11453	12078	12598	13111	13622	14280	14799
	4000	9487	9731	10232	10730	11228	11727	12232	12730	13226	13730	14231
	3750	9297	9535	10001	10470	10940	11407	11877	12346	12817	13282	13750
	3500	9104	9338	9771	10211	10650	11085	11525	11961	12398	12832	13272
	3250	8913	9142	9549	9954	10359	10760	11171	11577	11982	12387	12795
	3000	8720	8945	9319	9695	10068	10444	10819	11190	11566	11940	12315
	2750	8529	8749	9096	9436	9776	10120	10464	10806	11151	11490	11833
	2500	6673	6844	7090	9176	9487	9800	10109	10422	10731	11046	11356
	2250	6520	6686	6908	8920	9196	9477	9758	10040	10316	10597	10878
	2000	6367	6531	6728	8656	8904	9153	9404	9655	9900	10149	10401
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	3950
Clear passage width												

Optional extras							€
Tandem overhead door closer TS 4000, silver-coloured (already included in price)							479
Lintel spacer for tandem overhead door closer TS 4000							106
Lever handle set in stainless steel, prepared for profile cylinder, rose escutcheon version type D-110							200
Lever handle set in aluminium, prepared for profile cylinder, rose escutcheon version type D-110							127
Sports hall recessed lever, stainless steel							340
Profile cylinder (PC) 45.5 + 45.5							41
Door leaf surface finishes							
Pearlgrain, galvanized (standard)							No surcharge
Smooth sheet steel, galvanized							Surcharge flat rate 143
Colour coating							
Surface finish smooth sheet steel, galvanized	Galvanized as standard	Primed RAL 9002 Per m ²	Preferred colours based on RAL Per m ²	RAL to choose Per m ²	Metallic colours Per m ²	Colours according to NCS Per m ²	
Powder-coated door leaf and door frame	–	98	180	218	304	304	
Door leaf and door frame powder-coated in different colours							Surcharge 382

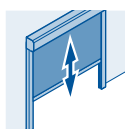
Fire protection curtains FlexFire

Classification “E”

Partition

		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	
Clear passage height	5310	11665	11782	11901	12022	12114	12233	12354	12476	12600	12723	12849	12976	13104	13233	
	5250	11436	11552	11668	11786	11877	11993	12112	12231	12352	12474	12597	12721	12847	12974	
	5000	11212	11325	11439	11555	11644	11758	11875	11991	12110	12229	12350	12472	12595	12719	
	4750	10991	11103	11215	11328	11418	11531	11645	11759	11876	11992	12111	12230	12351	12474	
	4500	10776	10885	10995	11106	11197	11308	11419	11532	11646	11760	11877	11994	12112	12231	
	4250	10564	10671	10780	10889	10981	11089	11198	11309	11420	11533	11647	11761	11878	11995	
	4000	10358	10463	10568	10675	10769	10875	10982	11090	11199	11310	11422	11534	11648	11762	
	3750	10154	10257	10361	10466	10560	10665	10770	10876	10983	11091	11201	11311	11423	11536	
	3500	9956	10056	10157	10260	10357	10459	10561	10666	10771	10877	10984	11092	11202	11312	
	3250	9760	9859	9958	10059	10156	10257	10358	10460	10562	10667	10772	10878	10985	11093	
	3000	9663	9761	9860	9959	10058	10156	10257	10358	10460	10562	10667	10772	10878	10985	
	2750	9568	9664	9762	9861	9960	10058	10156	10257	10358	10460	10562	10667	10772	10878	
	2500	9474	9569	9665	9763	9863	9960	10058	10156	10257	10358	10460	10562	10667	10772	
	2250	9379	9475	9570	9667	9766	9863	9960	10058	10156	10257	10358	10460	10562	10667	
	2000	9287	9380	9476	9571	9672	9766	9863	9960	10058	10156	10257	10358	10460	10562	
	1750	9194	9288	9381	9477	9575	9669	9764	9861	9957	10056	10154	10254	10355	10457	
	1500	9103	9196	9289	9382	9479	9572	9667	9762	9857	9955	10053	10151	10252	10353	
	1250	9014	9104	9197	9290	9384	9477	9570	9664	9759	9855	9952	10050	10149	10249	
	1000	8924	9014	9105	9198	9290	9382	9475	9567	9661	9757	9852	9950	10047	10147	
		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	
Clear passage width																

Controls for fire protection curtains FlexFire (mandatory)			Article no.	€
Control FSA-FLEXControl (DACH) with DiBt approval (IP 54, 230 V AC / 24 V DC), can be used from +5°C to +40°C	Each	2017630		2025
Control FAA-Plus for textile fire protection curtains, 230 V (with emergency power supply)	Each	2033295		2614
Emergency battery 12 V / 7 Ah for control FAA-Plus (required 2 x)		2033816		110
Control FSA-FLEXeco Basis	Each	2033299		435
Control FSA-FLEXeco Plus	Each	2033298		1805
Fire detector			Article no.	€
Optical smoke detector H-RM-4070 (set including fitting base) ► Note the required number and arrangement, see page 99.	Per set	4840016		227
Heat sensor H-TM-4070 (set including fitting base) Is used if dust, smoke or steam is to be expected during operation ► Note the required number and arrangement, see page 99.	Per set	4840017		237
Important: Must not be used for doors in escape and rescue routes!				
Smoke detector mounting bracket (steel) For lintel fitting. Suited for optical smoke detector and heat detector.	Galvanized	Each	2033856	16
Extended smoke detector mounting bracket (steel), galvanized	L: 541.5 mm	Each	2015416	107
	L: 700 mm	Each	2033854	113
Components for control FSA-FLEXControl / FAA-Plus			Article no.	€
Optical and acoustic alarm system FSA-OAW With capacitor buffering for power failures	Each	2033182		416
H-BS CAN BUS interface	Each	2033195		309
Push button, Open / Close	Each	2033710		121
Emergency power supply unit USV GLCD 2-1000 for FSA-FLEXControl Notice: The emergency power supply is not for opening the FlexFire – it only serves to hold the door open in case of power failure.	Each	2017080		1095


E30
E60
E90
E120

Fire protection curtain FlexFire

E30, E60, E90, E120

Standard equipment:

- Product description for standard equipment, see page 10
- Motor version with 230 V – 50 Hz as standard.
Optionally with 120 V – 60 Hz. See product configurator for surcharge.
(article number 4840080)

Optional extras:

- Shaft housing in RAL to choose or preferred colours
- Side guide in RAL to choose or preferred colours

► **Curtain weight: approx. 700 g/m²**

► **Including tubular drive unit**

► **Including concealed magnetic contact unit**

Hold-open device for fire protection curtain FlexFire

Consisting of:

- Tubular drive unit (included in the curtain price)
- Control FSA-FLEXControl (DACH) or FSA-FLEXeco (note the surcharge!)
- Smoke detectors including fitting base (optical or thermal smoke detectors) or radio smoke detectors (note the surcharge!)
- Optional extras:
Optical and acoustic alarm system FSA-OAW, manual release button FSA-Callpoint (display + reset), smoke detector mounting bracket for fitting to lintel, push button DT 02 (Open / Close)

The curtain prices include the tubular drive unit, but without control and without fire detectors.

Notice:

Fire protection curtains E30 / E60 / E90 / E120 also achieve protection class EW20.

Note

Fire protection curtains are not suitable for cold store areas.

4250	4500	4750	5000	5250	5500	
	13364	13496	13630	13800	13938	5310
	13102	13231	13362	13529	13664	5250
	12845	12972	13100	13265	13397	5000
	12596	12721	12846	13004	13135	4750
	12352	12475	12597	12750	12876	4500
	12114	12232	12354	12499	12624	4250
	11879	11996	12115	12254	12376	4000
	11649	11765	11880	12014	12134	3750
	11424	11537	11650	11778	11896	3500
	11203	11313	11425	11547	11663	3250
	11093	11203	11313	11433	11547	3000
	10985	11093	11203	11320	11433	2750
	10878	10985	11093	11208	11320	2500
	10772	10878	10985	11096	11208	2250
	10667	10772	10878	10987	11096	2000
	10560	10664	10769	10877	10986	1750
	10454	10557	10662	10768	10876	1500
	10350	10452	10555	10661	10767	1250
	10247	10347	10449	10554	10660	1000
4250	4500	4750	5000	5250	5500	

Clear passage width

Clear passage height

FlexFire with fitting type "in the reveal"	Surcharge €
Side guides and top shaft housing in the reveal	454
Side guides in front of the reveal and top shaft housing in the reveal	259

* Size range: available up to 5000 x 5000 mm

Colour coating of the side guide and shaft housing	Clear passage width		
	Up to 3000 mm	From 3000 to 4000 mm	From 4000 to 5500 mm
Standard galvanized (standard)	No surcharge	No surcharge	No surcharge
Primed RAL 9002	833	890	946
Preferred colours*	958	1021	1076
RAL to choose	1089	1142	1202
Metallic, NCS colours	1220	1276	1332

* RAL 3000 (Flame red), RAL 7016 (Anthracite grey), RAL 7035 (Light grey), RAL 9006 (White aluminium), RAL 9007 (Grey aluminium), RAL 9010 (Pure white), RAL 9016 (Traffic white)

Colour coating of the side guide (shaft housing galvanized)	Surcharge €
Galvanized steel side guide (standard)	No surcharge
Coated side guide, primed in RAL 9002, preferred colours	578
RAL to choose	666
Side guide coated in Metallic, NCS special colour	740

Fire protection curtains FlexFire

Classification “EW”

Radiation reduction

		Clear passage width														
		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	
Clear passage height	5310	15165	15317	15471	15629	15748	15903	16060	16219	16380	16540	16704	16869	17035	17203	
	5250	14867	15018	15168	15322	15440	15591	15746	15900	16058	16216	16376	16537	16701	16866	
	5000	14576	14723	14871	15022	15137	15285	15438	15588	15743	15898	16055	16214	16374	16535	
	4750	14288	14434	14580	14726	14843	14990	15139	15287	15439	15590	15744	15899	16056	16216	
	4500	14009	14151	14294	14438	14556	14700	14845	14992	15140	15288	15440	15592	15746	15900	
	4250	13733	13872	14014	14156	14275	14416	14557	14702	14846	14993	15141	15289	15441	15594	
	4000	13465	13602	13738	13878	14000	14138	14277	14417	14559	14703	14849	14994	15142	15291	
	3750	13200	13334	13469	13606	13728	13865	14001	14139	14278	14418	14561	14704	14850	14997	
	3500	12943	13073	13204	13338	13464	13597	13729	13866	14002	14140	14279	14420	14563	14706	
	3250	12688	12817	12945	13077	13203	13334	13465	13598	13731	13867	14004	14141	14281	14421	
	3000	12562	12689	12818	12947	13075	13203	13334	13465	13598	13731	13867	14004	14141	14281	
	2750	12438	12563	12691	12819	12948	13075	13203	13334	13465	13598	13731	13867	14004	14141	
	2500	12316	12440	12565	12692	12822	12948	13075	13203	13334	13465	13598	13731	13867	14004	
	2250	12193	12318	12441	12567	12696	12822	12948	13075	13203	13334	13465	13598	13731	13867	
	2000	12073	12194	12319	12442	12574	12696	12822	12948	13075	13203	13334	13465	13598	13731	
	1750	11952	12074	12195	12320	12448	12570	12693	12819	12944	13073	13200	13330	13462	13594	
	1500	11834	11955	12076	12197	12323	12444	12567	12691	12814	12942	13069	13196	13328	13459	
	1250	11718	11835	11956	12077	12199	12320	12441	12563	12687	12812	12938	13065	13194	13324	
	1000	11601	11718	11837	11957	12077	12197	12318	12437	12559	12684	12808	12935	13061	13191	
			1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250

Controls for fire protection curtains FlexFire (mandatory)			Article no.	€
Control FSA-FLEXControl (DACH) with DiBt approval (IP 54, 230 V AC/ 24 V DC), can be used from +5°C to +40°C	Each	2017630		2025
Control FAA-Plus for textile fire protection curtains, 230 V (with emergency power supply)	Each	2033295		2614
Emergency battery 12 V/ 7 Ah for control FAA-Plus (required 2 x)		2033816		110
Control FSA-FLEXeco Basis	Each	2033299		435
Control FSA-FLEXeco Plus	Each	2033298		1805
Fire detector			Article no.	€
Optical smoke detector H-RM-4070 (set including fitting base) ► Note the required number and arrangement, see page 99.	Per set	4840016		227
Heat sensor H-TM-4070 (set including fitting base) Is used if dust, smoke or steam is to be expected during operation ► Note the required number and arrangement, see page 99.	Per set	4840017		237
Important: Must not be used for doors in escape and rescue routes!				
Smoke detector mounting bracket (steel) For lintel fitting. Suited for optical smoke detector and heat detector.	Galvanized	Each	2033856	16
Extended smoke detector mounting bracket (steel), galvanized	L: 541.5 mm	Each	2015416	107
	L: 700 mm	Each	2033854	113
Components for control FSA-FLEXControl/ FAA-Plus			Article no.	€
Optical and acoustic alarm system FSA-OAW With capacitor buffering for power failures	Each	2033182		416
H-BS CAN BUS interface	Each	2033195		309
Push button, Open/ Close	Each	2033710		121
Emergency power supply unit USV GLCD 2-1000 for FSA-FLEXControl Notice: The emergency power supply is not for opening the FlexFire – it only serves to hold the door open in case of power failure.	Each	2017080		1095



4250	4500	4750	5000	5250	5500	
17373	17545	17719	17940	18119		5310
17033	17200	17371	17588	17763		5250
16699	16864	17030	17245	17416		5000
16375	16537	16700	16905	17076		4750
16058	16218	16376	16575	16739		4500
15748	15902	16060	16249	16411		4250
15443	15595	15750	15930	16089		4000
15144	15295	15444	15618	15774		3750
14851	14998	15145	15311	15465		3500
14564	14707	14853	15011	15162		3250
14421	14564	14707	14863	15011		3000
14281	14421	14564	14716	14863		2750
14141	14281	14421	14570	14716		2500
14004	14141	14281	14425	14570		2250
13867	14004	14141	14283	14425		2000
13728	13863	14000	14140	14282		1750
13590	13724	13861	13998	14139		1500
13455	13588	13722	13859	13997		1250
13321	13451	13584	13720	13858		1000
4250	4500	4750	5000	5250	5500	

Clear passage height

Clear passage width

Fire protection curtain FlexFire

EW30, EW60

Standard equipment:

- Product description for standard equipment, see page 11
- Motor version with 230 V – 50 Hz as standard. Optionally with 120 V – 60 Hz. See product configurator for surcharge. (article number 4840080)

Optional extras:

- Shaft housing in RAL to choose or preferred colours
- Side guide in RAL to choose or preferred colours

► **Curtain weight: approx. 1700 g/m²**

► **Including tubular drive unit**

► **Including concealed magnetic contact unit**

Hold-open device for fire protection curtain FlexFire

Consisting of:

- Tubular drive unit (included in the curtain price)
- Control FSA-FLEXControl (DACH) or FSA-FLEXeco (note the surcharge!)
- Smoke detectors including fitting base (optical or thermal smoke detectors) or radio smoke detectors (note the surcharge!)
- Optional extras:
Optical and acoustic alarm system FSA-OAW, manual release button FSA-Callpoint (display + reset), smoke detector mounting bracket for fitting to lintel, push button DT 02 (Open / Close)

The curtain prices include the tubular drive unit, but without control and without fire detectors.

Note

Fire protection curtains are not suitable for cold store areas.

FlexFire with fitting type "in the reveal"	Surcharge €
Side guides and top shaft housing in the reveal	454
Side guides in front of the reveal and top shaft housing in the reveal	259

* Size range: available up to 5000 x 5000 mm

Colour coating of the side guide and shaft housing	Clear passage width		
	Up to 3000 mm	From 3000 to 4000 mm	From 4000 to 5500 mm
Standard galvanized (standard)	No surcharge	No surcharge	No surcharge
Primed RAL 9002	833	890	946
Preferred colours*	958	1021	1076
RAL to choose	1089	1142	1202
Metallic, NCS colours	1220	1276	1332

* RAL 3000 (Flame red), RAL 7016 (Anthracite grey), RAL 7035 (Light grey), RAL 9006 (White aluminium), RAL 9007 (Grey aluminium), RAL 9010 (Pure white), RAL 9016 (Traffic white)

Colour coating of the side guide (shaft housing galvanized)	Surcharge €
Galvanized steel side guide (standard)	No surcharge
Coated side guide, primed in RAL 9002, preferred colours	578
RAL to choose	666
Side guide coated in Metallic, NCS special colour	740

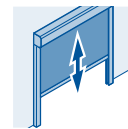
Fire protection curtains FlexFire

Classification "EI"

Insulation

		Clear passage width														
		1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000		
Clear passage height	4000	18447	18635	18821	19013	19180	19369	19559	19751	19946	20143	20343	20542	20745	4000	
	3750	18084	18268	18453	18640	18807	18995	19181	19370	19561	19753	19949	20144	20345	3750	
	3500	17732	17910	18089	18273	18446	18628	18809	18996	19183	19372	19562	19755	19951	3500	
	3250	17383	17559	17735	17915	18088	18268	18447	18629	18811	18998	19185	19373	19565	3250	
	3000	16582	16749	16920	17090	17259	17428	17601	17774	17949	18811	18998	19185	19373	3000	
	2750	16418	16583	16752	16921	17091	17259	17428	17601	17774	18629	18811	18998	19185	2750	
	2500	16257	16421	16586	16753	16925	17091	17259	17428	17601	18447	18629	18811	18998	2500	
	2250	16095	16260	16422	16588	16759	16925	17091	17259	17428	18268	18447	18629	18811	2250	
	2000	15936	16096	16261	16423	16598	16759	16925	17091	17259	18088	18268	18447	18629	2000	
	1750	15777	15938	16097	16262	16431	16592	16755	16921	17086	17910	18084	18262	18443	1750	
	1500	15621	15781	15940	16100	16266	16426	16588	16752	16914	17731	17905	18079	18259	1500	
	1250	15468	15622	15782	15942	16103	16262	16422	16583	16747	17552	17725	17899	18076	1250	
	1000	15313	15468	15625	15783	15942	16100	16260	16417	16578	17377	17547	17721	17894	1000	

Controls for fire protection curtains FlexFire (mandatory)			Article no.	€
Control FSA-FLEXControl (DACH) with DiBt approval (IP 54, 230 V AC / 24 V DC), can be used from +5°C to +40°C	Each	2017630	2025	
Control FAA-Plus for textile fire protection curtains, 230 V (with emergency power supply)	Each	2033295	2614	
Emergency battery 12 V / 7 Ah for control FAA-Plus (required 2 x)		2033816	110	
Control FSA-FLEXeco Basis	Each	2033299	435	
Control FSA-FLEXeco Plus	Each	2033298	1805	
Fire detector			Article no.	€
Optical smoke detector H-RM-4070 (set including fitting base) ► Note the required number and arrangement, see page 99.	Per set	4840016	227	
Heat sensor H-TM-4070 (set including fitting base) Is used if dust, smoke or steam is to be expected during operation ► Note the required number and arrangement, see page 99.	Per set	4840017	237	
Important: Must not be used for doors in escape and rescue routes!				
Smoke detector mounting bracket (steel) For lintel fitting. Suited for optical smoke detector and heat detector.	Galvanized	Each	2033856	16
Extended smoke detector mounting bracket (steel), galvanized	L: 541.5 mm	Each	2015416	107
	L: 700 mm	Each	2033854	113
Components for control FSA-FLEXControl / FAA-Plus			Article no.	€
Optical and acoustic alarm system FSA-OAW With capacitor buffering for power failures	Each	2033182	416	
H-BS CAN BUS interface	Each	2033195	309	
Push button, Open / Close	Each	2033710	121	
Emergency power supply unit USV GLCD 2-1000 for FSA-FLEXControl Notice: The emergency power supply is not for opening the FlexFire – it only serves to hold the door open in case of power failure.	Each	2017080	1095	

**EW90****EI₂30****Fire protection curtain FlexFire**EW90, EI₂30**Standard equipment:**

- Product description for standard equipment, see page 12
- Motor version with 230 V – 50 Hz as standard.

Optional extras:

- Shaft housing in RAL to choose or preferred colours
- Side guide in RAL to choose or preferred colours

► Curtain weight: approx. 1950 g/m²**► Including tubular drive unit****► Including concealed magnetic contact unit****Hold-open device for fire protection curtain FlexFire**

Consisting of:

- Tubular drive unit (included in the curtain price)
- Control FSA-FLEXControl (DACH) or FSA-FLEXeco (note the surcharge!)
- Smoke detectors including fitting base (optical or thermal smoke detectors) or radio smoke detectors (note the surcharge!)
- Optional extras:
Optical and acoustic alarm system FSA-OAW, manual release button FSA-Callpoint (display + reset), smoke detector mounting bracket for fitting to lintel, push button DT 02 (Open / Close)

The curtain prices include the tubular drive unit, but without control and without fire detectors.

Note

Fire protection curtains are not suitable for cold store areas.

Colour coating of the side guide and shaft housing	Clear passage width	
	Up to 3000 mm	From 3000 to 4000 mm
Standard galvanized (standard)	No surcharge	No surcharge
Primed RAL 9002	833	890
Preferred colours*	958	1021
RAL to choose	1089	1142
Metallic, NCS colours	1220	1276

* RAL 3000 (Flame red), RAL 7016 (Anthracite grey), RAL 7035 (Light grey), RAL 9006 (White aluminium), RAL 9007 (Grey aluminium), RAL 9010 (Pure white), RAL 9016 (Traffic white)

Colour coating of the side guide (shaft housing galvanized)	Surcharge €
Galvanized steel side guide (standard)	No surcharge
Coated side guide, primed in RAL 9002, preferred colours	578
RAL to choose	666
Side guide coated in Metallic, NCS special colour	740

Colour coating and surface finish versions

For fire and multi-purpose sliding doors FST OD

For high-speed sliding doors FST

For hinged garage doors DFT

For vertical sliding doors FHT OD

Door leaf surface finishes		
Pearlgrain, galvanized (standard)		No surcharge
Smooth sheet steel, galvanized	Surcharge flat rate	143
Stainless steel sheet V2 A, 1.4301, K240 polished, smooth		Table price × 2.5
Stainless steel sheet V2 A, 1.4301, circular finish, up to a clear passage height (DGLH) of 9000 mm (door leaf only)		Table price × 2.9

Notice:

- Wicket door surface finish possible in galvanized Pearlgrain, smooth sheet steel and smooth stainless steel sheet, V2 A, 1.4301.
- Wicket door LDB available up to 1200 mm in Pearlgrain surface finish!



Notes on stainless steel doors:

Stainless steel

Stainless steel is characterised by a percentage of chrome that is greater than 10.5%. This high percentage of chrome creates a protective, dense passive layer of chromium oxide on the surface of the material. Additional alloy components such as nickel, molybdenum, manganese and niobium improve corrosion resistance even further.

V2 A, material number 1.4301

1.4301 is a relatively soft, nickelous, non-ferromagnetic austenitic steel. This material is not resistant to chloric media such as salt water or chloric atmospheres such as those found in indoor pools.

V4 A, material number 1.4571

V4 A should be used around chloric media. In contrast to V2 A, 1.4301, it has a greater resistance to chlorides thanks to its 2% of molybdenum. It is mainly used in areas with constant contact with salt water. In sliding doors FST only the door leaf is made of the material V4 A.

Colour coating							
Surface finish galvanized Pearlgrain or smooth galvanized sheet steel		Galvanized as standard	Primed Grey white RAL 9002 Per m ²	Preferred colours based on RAL ¹⁾ Per m ²	RAL to choose Per m ²	Metallic colours ²⁾ Per m ²	Colours according to NCS Per m ²
Powder-coated door leaf Galvanized door frame, smooth	Article number		2017071	2017072	2017073	2017076	2017074
	Price in €	–	60	125	149	212	212
Powder-coated door leaf and door frame	Article number		2015418	2017009	2015031	2017075	2017010
	Price in €	–	98	180	218	304	304
Recess / ceiling flaps powder-coated for surface finish version of door leaf and door frame							No surcharge
Door leaf and door frame powder-coated in different colours of the same price group						Surcharge	2017011 382
Wicket / escape door (only door leaf) coated in different colour to the coloured door leaf						Surcharge	2017815 363
Wicket / escape door (only door leaf) coated in colour, door leaf galvanized							
Colour coating for doors above LDH 6000 mm							Article no. €
Fixed handling charge for coating doors above LDH 6000 mm (in addition to the m ² price of the coating)							4840117 3619

1) Preferred colours based on RAL colour chart

- RAL 3000 (Flame red)
- RAL 7016 (Anthracite grey)
- RAL 7035 (Light grey)
- RAL 9006 (White aluminium)

- RAL 9007 (Grey aluminium)
- RAL 9010 (Pure white)
- RAL 9016 (Traffic white)

1) Metallic colours

- DB 701
- DB 702
- DB 703
- CH 703 Anthracite metallic
- CH 907

- Gloss level:
- RAL colours max. 35% – 40%, solid colours, dispersing
 - Metallic colours silk matt (Pearl metallic, dispersing)
 - NCS colours max. 35% – 40%, solid colours, dispersing

Colour coating of recess and ceiling flaps (only for galvanized doors!)		Article no.	€
Recess and ceiling flaps coated in RAL to choose			
Notice:			
• No surcharge if door from standard range is ordered in RAL to choose		2017012	Flat rate per door 1266
• Surcharge must be added for powder-coated (primed) version, Grey white RAL 9002 with simultaneous order of recess / ceiling flaps in RAL to choose			
Recess and ceiling flaps coated in metallic or NCS colours			
Notice:			
• No surcharge if door from standard range is ordered in RAL to choose		2017077	Flat rate per door 1413
• Surcharge must be added for powder-coated (primed) version, Grey white RAL 9002 with simultaneous order of recess / ceiling flaps in RAL to choose			

Colour coating and surface finish versions

For fire and multi-purpose sliding doors FST OD

For high-speed sliding doors FST

For hinged garage doors DFT FST

For vertical sliding doors FHT OD

Notes on surface coatings

IMPORTANT:

- For coating of door leaf and door frame, the weight box, weight box panel and track panels are also coated along with the door leaf.
- For the "Powder-coated door leaf, galvanized, smooth door frame" coating, only the door leaf is coated. (Weight box, weight box panel and track panels in galvanized, smooth, uncoated version).
- To ensure safe operation of the doors, the following parts are generally not coated:
Track, magnet, telescopic anchor, hydraulic track control, travel limit damper, rollers, floor buffer, floor guide roller and cable.

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

1 Door leaf

Wicket / escape door description:

- Without threshold rail as standard, optionally with wicket door threshold 22 mm (see section "3" on page 76)
- Including slide rail overhead door closer HDC 35 (for EI₂30, EI₂60 and EI₂90 doors)
- Including mortice lock with lever / knob, backset 65 mm, with stainless steel lock cover
- Including 3-way adjustable hinges, galvanized version

Fitting height from door LDH 2100 mm, depth 62 mm door leaf thickness, non-lockable as standard (without cylinder cut-out and cylinder rose escutcheon)

ATTENTION:

- From a wicket door width ≥ 1001 mm top locking is required.
- Wicket door width 1200 mm not available as smoke-tight version!

Standard lever handle combination:

- **Opening into the reveal:** Folding ring recessed handle / half handle set
- **Opening away from the reveal:** Stainless steel sports hall recessed handle / half handle set

Information about lever handle pairs and cylinder lengths can be found on page 100

Notes:

- Wicket door possible in galvanized Pearlgrain, smooth sheet steel and smooth stainless steel sheet V2 A, 1.4301
- Wicket door LDB available up to 1200 mm in Pearlgrain surface finish!
- Wicket door integrated into the door element for EI₂30: LDH ≤ 4500 mm; for EI₂60, EI₂90: LDH ≤ 4000 mm
- Wicket door separate with lintel element for EI₂30: LDH ≥ 4500 mm; for EI₂60, EI₂90: LDH ≥ 4000 mm, for wicket door LDB ≥ 1000 mm in Pearlgrain surface finish
- 2 wicket doors possible per door leaf (also with opposite opening sense)
- Choice of wicket door position depending on the door width
- Wicket door openings possible in both directions (into the reveal, away from the reveal)
- For doors with an operator or opening aid in combination with a wicket / escape door, wicket / escape door protection or monitoring is required
- All locks and lever handle sets for sliding doors are available in PC or RC versions

1.1	Wicket / escape door	Article no.	€
1	Wicket / escape door for galvanized or coated doors:	1000 × 2000 mm (standard) MZ *	2017013 2246
		EI ₂ 30	2015144 2459
		EI ₂ 60 / EI ₂ 90	2015145 3275
		1200 × 2000 mm EI ₂ 30	2017454 2651
		Special sizes (e.g. 900 × 2000) MZ *	2017014 2798
		EI ₂ 30	2017015 3087
		EI ₂ 60 / EI ₂ 90	2017016 4138
2	Wicket / escape door for doors in stainless steel V2 A, 1.4301:	1000 × 2000 mm (standard) MZ *	2017994 3558
		EI ₂ 30	2017995 3895
		EI ₂ 60 / EI ₂ 90	2017998 5547
		Special sizes (e.g. 900 × 2000) MZ *	2017991 4423
		EI ₂ 30	2017990 4886
		EI ₂ 60 / EI ₂ 90	2017992 6556
3	Wicket door threshold rail 22 mm (for additional stability) Recommended in combination with compensator, operators and opening aids, for approach ramps and sloped floors Not available in escape routes acc. to DIN EN 179 or EN 1125 The wicket door threshold rail can also be retrofitted (see spare parts price list)	Surcharge each	2017054 261
4	Smoke protection properties for wicket door / escape door		2015224 261
	* A door locking magnet for the door leaf must be added for multi-purpose sliding doors with wicket door		2017686 42

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

1.2	 Anti-panic devices for wicket doors / escape doors and cylinders	Article no.	€
1	Anti-panic lock, function B acc. to DIN EN 179 Prepared for profile cylinder (PC) including anti-panic handle set (black half handle set / sports hall recessed handle)	2015177	267
2	Anti-panic lock, function E acc. to DIN EN 179 Prepared for profile cylinder (PC) including anti-panic lever / knob handle set (sports hall recessed lever / knob)	2017592	89
3	Push bar acc. to DIN EN 1125 Set consists of: • Anti-panic lock, prepared for profile cylinder / round cylinder • Push bar with bar handle (concealed handle fitting on the hinge side)	Special length: Black plastic 2017734	911
	Notice: • Only possible with wicket door opening into the reveal! • On the opposite side with folding ring recessed handle as standard, black • Optionally with stainless steel folding ring recessed handle or stainless steel sports hall recessed lever • Special length = push bar over full wicket door width • With recess flaps, note the minimum recess width of 280 mm for single-leaf and double-leaf doors • Optionally with stainless steel folding ring recessed handle or stainless steel sports hall recessed lever. Note the surcharge	Special length: Brushed stainless steel 2016997	1771
	Touch bar EPN 2000 acc. to DIN EN 1125 in standard and special lengths, suitable for anti-panic devices acc. to DIN EN 1125		
4	Touch bar, black folding ring recessed handle	Standard length: 670 mm	Aluminium natural finish 4840056 950 Brushed stainless steel 4840060 1104
		Standard length: 870 mm	Aluminium natural finish 4840057 950 Brushed stainless steel 4840061 1104
		Standard length: 1120 mm	Aluminium natural finish 4840058 950 Brushed stainless steel 4840062 1104
		Special length	Aluminium natural finish 4840059 1355 Brushed stainless steel 4840063 1631
		Standard length: 670 mm	Aluminium natural finish 4840064 991 Brushed stainless steel 4840068 1104
		Standard length: 870 mm	Aluminium natural finish 4840065 991 Brushed stainless steel 4840069 1104
	Touch bar, stainless steel folding ring recessed handle	Standard length: 1120 mm	Aluminium natural finish 4840066 991 Brushed stainless steel 4840070 1104
		Special length	Aluminium natural finish 4840067 1395 Brushed stainless steel 4840071 1553
		Standard length: 670 mm	Aluminium natural finish 4840072 1138 Brushed stainless steel 4840076 1251
		Standard length: 870 mm	Aluminium natural finish 4840073 1138 Brushed stainless steel 4840077 1251
		Standard length: 1120 mm	Aluminium natural finish 4840074 1138 Brushed stainless steel 4840078 1251
		Special length	Aluminium natural finish 4840075 1543 Brushed stainless steel 4840079 1701
	Touch bar, sports hall recessed lever V2 A	Standard length: 670 mm	Aluminium natural finish 4840072 1138 Brushed stainless steel 4840076 1251
		Standard length: 870 mm	Aluminium natural finish 4840073 1138 Brushed stainless steel 4840077 1251
		Standard length: 1120 mm	Aluminium natural finish 4840074 1138 Brushed stainless steel 4840078 1251
		Special length	Aluminium natural finish 4840075 1543 Brushed stainless steel 4840079 1701
		Standard length: 670 mm	Aluminium natural finish 4840072 1138 Brushed stainless steel 4840076 1251
		Standard length: 870 mm	Aluminium natural finish 4840073 1138 Brushed stainless steel 4840077 1251
		Standard length: 1120 mm	Aluminium natural finish 4840074 1138 Brushed stainless steel 4840078 1251
		Special length	Aluminium natural finish 4840075 1543 Brushed stainless steel 4840079 1701
	Notice: • Standard length 670 mm suitable for wicket / escape doors up to LD width 920 mm • Standard length 870 mm suitable for wicket / escape doors up to LD width 1170 mm • Standard length 1120 mm suitable for wicket / escape doors from LD width 1171 mm • Special length = touch bar over full wicket door width • Only possible with wicket door opening into the reveal! • With recess flaps, note the minimum recess width of 280 mm for single-leaf and double-leaf doors • Anti-panic lock function B or E must be added (item 1, 2)		
5	Wicket / escape door version with round cylinder (RC) instead of profile cylinder (PC)	Surcharge	2017571 93
6	Profile cylinder (PC) 35.5 + 35.5 mm for wicket door lever handle combination of half handle set / sports hall recessed handle		2015417 41
7	Profile cylinder (PC) 35.5 + 35.5 mm for wicket door lever handle combination of half handle set / folding ring recessed handle		2015417 41
8	Profile cylinder (PC) 27.5 + 27.5 mm for wicket door lever handle combination of sports hall recessed handle / sports hall recessed handle		2032998 41
9	Preparation for profile cylinder (PC) including stainless steel rose escutcheons (wicket door lockable)		2016927 58
10	Preparation for round cylinder (RC) including stainless steel rose escutcheons (wicket door lockable)		2017056 58

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

1.3	Equipment for wicket / escape doors	Article no.	€
1	Surcharges for lever handle combinations (if not already included as standard)		
	• Sports hall recessed lever, stainless steel	Surcharge each 2015470	340
	• Stainless steel sports hall recessed handle with anti-panic handle acc. to DIN EN 179	Surcharge each 2017628	454
	• Lever handle D-110 in black (only available on the opposite wall side)	Surcharge each 2015473	30
	• Stainless steel lever handle ECO D-110 (only available on the opposite wall side)	Surcharge each 2015791	103
	• Stainless steel knob (only available on the opposite wall side)	Surcharge each 2016579	61
2	3-way adjustable stainless steel hinge set	Surcharge for doors with 2 hinges 2015766	456
3	Concealed overhead door closer ITS 96	2015086	1240
4	Overhead door closer TS 5000, silver-coloured	2015244	91
5	ECline TS 5000 overhead door closer , silver with ECline slide rail and double wall For barrier-free, easy-to-open doors incl. opening support	2030670	349
6	Omission of overhead door closer HDC 35 for wicket doors in multi-purpose sliding doors FST (subsequent retrofitting no longer possible) (€159 plus €39 for preparation)	Price reduction 2017070	264
7	Wicket / escape door protection or monitoring via radio • Radio signal transmission system including magnetic contact in the door leaf, transmitter, separate receiver and batteries	Each 2017572	754
8	Wicket / escape door protection or monitoring via signal transmission system with spiral cable • Signal transmission system with spiral cable on the end of the door leaf (wiring inside, in the door leaf and distributor box) Important: For the signal transmission system with spiral cable, only 2 electronic components in combination are possible. 3 electronic components (latch switching contact, electric strike and wicket door monitoring with magnet) only available in combination with protection or monitoring via radio.		
	Basic price:	Up to a door opening width of 6000 mm 2015424	619
		From a door opening width of 6001 mm 2015799	1233
	• Latch switching contact (for wicket door)	Each 2015026	165
	• EFF 143 Profix 1 (without feedback)	Each 2015689	678
	• EFF 143 Profix 1 (with feedback)	Each 2015690	820
	• Dorma 448 Fire (without feedback)	Each 2016073	991
	• Dorma 448 Fire (with feedback)	Each 2016075	1056
9	Door locking magnet for multi-purpose doors FST for single- and double-leaf doors with wicket / escape door (without operator)	Each 2017686	42
10	Traffic door frame locking Recommended for small sliding doors incl. wicket / escape door. This prevents the door leaf from swinging out.	With lock plate 4841145	237
		With floor sleeve 4841146	416

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

1.4	Door hardware		Article no.	€
1	Door hardware	Stainless steel recessed handle on both sides (instead of grip handle / recessed handle)	2015768	160
		Grip handle and recessed handle in stainless steel with guiding element (standard)	No surcharge	
1.5	Door leaf locking		Article no.	€
1	Mortice curved bolt lock, 120 mm backset, prepared for profile cylinder		2015067	588
	Mortice curved bolt lock, 250 mm backset, prepared for profile cylinder		2017722	886
	Mortice hook catch lock, 120 mm backset, prepared for profile cylinder		2015775	886
	Mortice hook catch lock, 250 mm backset, prepared for profile cylinder		2015499	1331
	Profile cylinder 40.5 + 40.5 mm for door leaf		2032991	41
	Preparation for locking cylinder incl. stainless steel rose escutcheons (door leaf lockable)		2016999	58
	Latch switching contact for curved and hook catch lock		2015025	165
	- Only possible for single-leaf doors - Not available in combination with electric strike for hook catch lock			
	Electric strike for hook catch lock		2015767	1087
	ATTENTION: Mandatory if using an opening aid, only possible with single-leaf doors. In the standard arrangement, this results in a diverted closing weight behind the opened door leaf. Optional at no surcharge: Arrangement of the closing weight with spacer next to the guiding profile with expanded panel.			
2	Magnetic contact (surface-mounted on door leaf)	Per leaf	2015124	194
1.6	Flush-stopping fire sliding door EI ₂₃₀ (without unattractive guiding profile)		Article no.	€
1	Flush-stopping door version without unattractive guiding profile, with spring-loaded stainless steel guiding bolts, intumescent coating and rubber double seal on the guiding door leaf edge.		2016547	360
	Attention: - Approved in single-leaf and telescopic version (double, triple) EI₂₃₀ - Maximum approved size LDB 7500 × LDH 4500 mm - The wall in the outlet area of the sliding door must be vertical and run completely straight at an angle of 90° to the door leaf travel direction. - Lockable door leaf version not possible, only “retrofit lock” possible - Smoke-tight version not available	Per m LDH		
2	Closing weight in the parking area (closing weight diverted) Arrangement of the closing weight behind the open door leaf ► Required for flush-stopping doors!	Without surcharge in combination with item 1	2015428	

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

1.7	Glazings for fire sliding doors			Article no.	€
	Wicket / escape door glazings				
1	Round fire-resistant glazing Ø 400 mm (standard)	Each	El ₂ 30	2017064	1500
2	Square fire-resistant glazing 400 × 400 mm	Each	El ₂ 30	4840113	1644
			El ₂ 60	4840114	3345
			El ₂ 90	4840115	3468
3	Rectangular fire-resistant glazing 400 × 600 mm* * Note: Special sizes are available with a max. possible size of 500 × 1000 mm, depending on the wicket door width in the configurator	Each	El ₂ 30	2015149	1817
			El ₂ 60	2015150	3838
			El ₂ 90	2015151	3838
	Door set glazings				
4	Rectangular fire-resistant glazing via the configurator • Min. frieze width 260 mm • Max. possible glazing size 500 × 1000 mm, depending on door set widths	All sizes	El ₂ 30	2015149	1817
			El ₂ 60	2015150	3838
			El ₂ 90	2015151	3838

1.8	Glazings for multi-purpose sliding doors			Article no.	€
	Wicket / escape door glazings				
1	Round multi-purpose glazing Ø 400 mm (standard), insulated single-pane safety glass 16 mm	Each		2017066	869
2	Square multi-purpose glazing 400 × 400 mm, insulated single-pane safety glass 16 mm	Each		4840116	949
3	Rectangular multi-purpose glazing 400 × 600 mm* * Note: Special sizes are available with a max. possible size of 500 × 1000 mm, depending on the wicket door width in the configurator	Each		2015154	1051
	Door set glazings				
4	Rectangular multi-purpose glazing via the configurator, insulated single-pane safety glass 16 mm • Min. frieze width 260 mm • Max. possible glazing size 500 × 1000 mm, depending on door set widths	Each		2015154	1051

1.9	Surcharges for glazings (wicket door / door set)			Article no.	€
1	Stainless steel glazing frame in V2 A, 1.4301 version	Surcharge		2017067	235

Important notes for glazings for fire-rated and multi-purpose doors:

- Glazing frames (steel) coated as standard in the door leaf colour
- Glazing bottom section height: 965 mm above FFL
- Glazing not possible in start and end element.
- Standard wicket / escape door glazings available in conjunction with anti-panic fitting acc. to EN 1125 and sports hall recessed handle EN 179.

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

2	Door frames and types of fitting			Article no.	€
1	Compensator function Functional principle: Counterweight is decoupled, then the sliding door can be opened or closed manually with very little effort. - The compensator allows the sliding door to be positioned and parked freely in any position. 1 additional radial damper is integrated in the compensator carriage. Notes: - Possible for single- and double-leaf sliding doors - Min. headroom for direct ceiling fitting > 130 mm - Parking area increases by 250 mm - Smoke-tight version not available!	galv	Each	2015243	530
		V2A	Each	2016928	670
2	Closing weight in the parking area Arrangement of the closing weight behind the open door leaf for single-leaf doors		Surcharge	2015428	178
3	Suspended ceiling fitting in the parking area Important: Up to max. 200 mm lintel height possible.	Single	Per m LDB	2015776	135
		Double	Per m LDB	2015777	148
4	Suspended ceiling fitting in the opening area and parking area Important: Up to max. 200 mm lintel height possible.	Single	Per m LDB		270
		Double	Per m LDB		296
5	Threaded rods for brickwork ≥ 175 mm		Per m	2017000	44
6	False lintel of up to 150 mm for ceiling fitting or false sideroom for flush walls		Per m	2015134	405
7	Extended track		Per m	2015097	515
8	Stainless steel track V2 A, 1.4301 for steel sliding doors FST		Per m	2016203	188
9	Stainless steel additional package V2 A, 1.4301 – closing weights Consisting of stainless steel closing weights V2 A, 1.4301 Important: Radial guidance damper, hydraulic soft stop and magnet not possible in stainless steel version			2017069	999
10	Front side track panel made of stainless steel V2 A, 1.4301, for simple mounting on the track Wall fitting	Single-leaf and double-leaf		2036807	79
		T2 telescopic version		2036808	97
		T3 telescopic version		2036809	112
	Direct fitting to the ceiling	Single-leaf and double-leaf		2036810	79
		T2 telescopic version		2036811	97
		T3 telescopic version		2036812	112
11	Top track cover, galvanized sheet steel * (with coated doors, the cover is also coated in the door colour) for concealing the mineral wool for special appearance requirements		Each	2017457	386
12	Top track cover, stainless steel V2A, 1.4301 * (for concealed mineral wool for special visual requirements)		Each	2015315	508

* Wall fitting only possible for single- and double-leaf doors

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

3	Sealed door version (all-round wiper seal on 3 sides of the door leaf)	Article no.	€
	"Sealed" function for single-leaf doors and double-leaf doors and telescopic sliding doors (with / without wicket door / escape door) possible. Notice: - Mandatory in Germany acc. to EN 16034. Notes: - Door leaf is fitted with all-round rubber seals on 3 sides in C-profiles - C-profile version in galvanized sheet steel - Sealing properties also available for doors with wicket door - Sealing properties also available for double-leaf doors with intermediate seal 2 intermediate seals required for telescopic doors T3 1 sealing block required for T2 telescopic doors and 2 for T3 telescopic doors		
1	Seal version (for single-leaf / double-leaf doors) per all-round metre	2017968	22
2	Intermediate seal (required for double-leaf doors) per metre in door height		22
3	Track sealing block for telescopic doors T2 / T3 Each	4840121	149
4	Door version with all-round wiper seal on 4 sides of the door leaf	Article no.	€
	For single-leaf doors and double-leaf doors (with / without wicket / escape door), for door sizes beyond the approved smoke-tight sizes Notes: - Door leaf is fitted with all-round rubber seals on 4 sides in C-profiles - C-profiles made of high-quality stainless steel V2 A, 14301 - Tested system - Possible for doors with wicket door - Available for double-leaf doors with intermediate seal - The appropriate seal must also be calculated for version with wicket / escape door		
1	Seal version (for single-leaf / double-leaf doors) per all-round metre	2015226	62
2	Intermediate seal (required for double-leaf doors) per metre in door height	2015223	62
3	Seal for wicket / escape door per wicket door	2015224	261
4	Stainless steel floor rail, 1.5 mm (optional) For fire sliding doors with smoke protection properties to manufacture a smooth sliding surface for smoke-tight wiper seals, also for retrofitting, incl. all fastening holes Per metre	2016372	124
5	Sliding door acoustic values		
	FST 30 OD: acoustic value up to 29 dB (for version with wicket / escape door up to 28 dB)		
	FST 90 OD: Acoustic value up to 31 dB (for version with wicket / escape door up to 30 dB)		

Notice:

Acoustic values are achieved with optional version with an all-round seal on 4 sides or with an all-round smoke-tight seal on 4 sides.

Notes and sketches

Operator SupraMatic HT

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

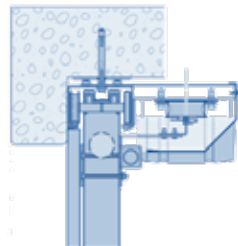
SupraMatic HT series 3 with integrated control (up to 800 kg door weight)		
	Number of parking spaces Max. 50 – 70 door cycles (Open / Close) per day	- Adjustable partial opening, adjustable automatic timer - Hold-open phase after activation 10 – 180 sec. - Impulse control
	Operator data 24 V DC gear drive - Mains voltage 230 – 240 V AC, 0.2 kW - Pull and push force 1000 N - Peak force 1200 N - Opening speed approx. 20 cm/s - Protection category IP 20	Without radio remote control! Patented compensator release system in case of fire Function description: - Automatic normal operation with operator SupraMatic HT - In case of fire, the operator is released by a stopping closing weight - In case of fire, the door is closed by a closing weight
Operator - For doors up to 800 kg door weight - Use in dry areas - Suitable for commercial use “Open / Close” function with impulse	Control electronics - Micro-processor control - Automatic teach-in of automatic safety cut-out and end-of-travel positions - Soft start and soft stop - Double 7-segment display	

Notes:

- Clear passage width min. 1145 mm, max. 6035 mm
- Only available as single-leaf
- Only possible as normal guiding with guiding profile and normal guiding with guiding profile with diverted weight (not possible for flush-stopping doors)
- For doors with operator in combination with a wicket / escape door, optional wicket / escape door protection or monitoring is required
- On-site wiring

Fitting versions SupraMatic HT:

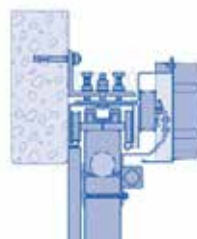
//NEW Horizontal fitting variant (standard)



Available fitting variants

- Wall fitting
- Suspended ceiling fitting
- Direct fitting to the ceiling

Vertical fitting variant (optional)



Available fitting variants

- Wall fitting
- Suspended ceiling fitting



Operator SupraMatic HT – series 3 with integrated control for fire sliding doors FST (Hold-open device required)	Article no.	€
Operator SupraMatic for single-leaf fire sliding doors up to 800 kg door weight - Including patented compensator release system - Including modified boom FS 60 - Including adapter print PSA for the optional connection of a push button - Optionally with 2-channel receiver HEI 3 BS for hand transmitter operation or radio internal push button - Optionally with push button DT 02, impulse / stop - Additional accessories see page 86 - Fire protection door leaf weight: – EI₂₃₀ = 40 kg/m² – EI₂₆₀ / EI₂₉₀ = 50 kg/m²	2017553	2610
Prepared for operator SupraMatic HT – series 3 (fire sliding doors FST)		€
Door leaf and frame prepared for subsequent retrofitting of operator consisting of: Compensator function, track panel including panel bracket, link bracket set, door hardware with 250 mm spacing, track extension 350 mm, prepared for trap protection strip and release lever	2017769	876

Operator SupraMatic HT

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

MZ

S_a

Operator SupraMatic HT – series 3 with integrated control for multi-purpose sliding doors FST	• “Open / Close” function with impulse	Article no.	€
SupraMatic operator for single-leaf multi-purpose sliding doors up to 800 kg door weight			
• Without patented compensator release system (only for fire sliding doors FST) • Including modified boom FS 60 • Including adapter print PSA • Optionally with 2-channel receiver HEI 3 BS for hand transmitter operation or radio internal push button • Optionally with push button DT 02, impulse / stop • Additional accessories see page 86 • Multi-purpose door leaf weight: – With honeycomb infill = 30 kg/m² – With mineral wool insulation: 40 kg/m²			
		2017568	1727
Prepared for operator SupraMatic HT – series 3 (for multi-purpose sliding doors FST)			
Door leaf and frame prepared for subsequent retrofitting of operator consisting of:			
• Compensator function, track panel including panel bracket, link bracket set, door hardware with 250 mm spacing, track extension 350 mm, prepared for trap protection strip and pull cord for emergency release		2017786	432

Equipment options for fire and multi-purpose sliding doors FST OD in combination with operator SupraMatic

External control 360 inside the industrial control housing for SupraMatic HT	Article no.	€
Additional external control 360 inside the industrial control housing		
All-pole switch-off main switch in control housing (omission of mains lead with CEE plug), including main switch		
Functions:		
• Open and close with impulse • Any second opening width ½ / Open • Automatic timer • Soft start and soft stop	Surcharge	
		2015369
		536
Control elements for external control 360		
		Article no.
		€ / each
Mains lead 1.2 m with 230 V CEE plug, for controls with main switch		635486
		17.8

Accessories for SupraMatic HT

See page 86

Operator SupraMatic HT

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

Accessories	SupraMatic HT		Article no.	€	
	With integrated control	With external control 360			
Buttons, pull switches					
Push button DT 02, impulse / stop	•	•	637040	60	
Pull switch ZT 2 (impulse, stop, with pull cord length approx. 3200 mm, protection category IP 65)	•	•	637510	91	
Push button DTH-R Open / Stop / Close	• ¹⁾	•	637713	54	
Connection cable (6-pin), length 6 m for push button DT 02, DTH-R and pull switch ZT 2		•	635491	11	
Connection cable (6-pin), length 20 m for push button DT 02, DTH-R and pull switch ZT 2	•		635484	24	
Universal adapter print for choosing direction UAP 1 (Open / Stop / Close) via external control elements and / or for control of the partial opening function. Additional volt-free change-over contacts for Open / Close limit switch reporting as well as an option relay.	•	•	436295	78	
Radio internal push button FIT 1 BS, frequency 868 MHz, impulse, protection category: only for dry rooms, Pure white, similar to RAL 9010, dimensions (W × H × D) 80 × 80 × 15 mm ► Only in conjunction with a 2-channel receiver (art. no. 436720)	•	•	439740	80	
Receiver 868 MHz					
2-channel receiver HEI 3 BS, frequency 868 MHz, IP 65, operating voltage 24 V DC, with 7 m connecting lead, 4-wire.	•	•	436720	110	
868 MHz hand transmitters – only in conjunction with a receiver					
BiSecur hand transmitters are downward compatible with 868 MHz fixed code receivers					
1-button hand transmitter HS 1 BS, impulse, incl. battery, with chrome-plated zinc die-cast caps	Black (textured surface)	•	•	4511720	73
4-button hand transmitter HS 4 BS, impulse, incl. battery, with chrome-plated zinc die-cast caps	Black (textured surface)	•	•	4511724	73
Photocells					
One-way photocell EL 301 for floor fitting (for use in interiors and exteriors)	•	•	436313	118	
Reflection photocell RL 50 for door widths 500–8000 mm, industrial frame fitting top, application areas: Interior and exterior		•	635344	195	
Notice: Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.					
Reflector for photocell RL 50 for door widths 500–8000 mm		•	638163	13	
Activating kit for warning lights and accessories					
Activating kit for warning lights ZS 360 / 400 with 2 yellow LED warning lights, without extension housing		•	637530	328	
Activating kit for warning lights ZS 360 with 2 yellow LED warning lights and weekly timer ZSU 2, without extension housing		•	637780	504	
Activating kit for warning lights MP 360 with 2 red / green LED warning lights, without extension housing		•	637731	475	
Activating kit for warning lights MP 360 with 2 red / green LED warning lights and weekly timer ZSU 2, without extension housing		•	637779	771	
Extension housing for industrial door controls (semi-housing)		•	637014	68	

1) Universal adapter print UAP 1 required!

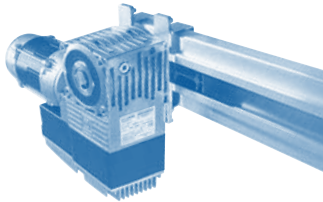
Notes and sketches

Operator ITO 500 FU with control 545 with soft start and soft stop

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

Product description ITO 500 FU with control 545 (800 kg – 2500 kg door weight)



Operator

- Chain drive operator
- For door weights 800 kg – 2500 kg
- Use in dry areas
- Suitable for commercial use
- "Open / Stop / Close" function, press-and-hold
- Opening and closing phase approx. 6 – 8 s/m

Operator data

- Mains voltage 1-phase current 230 V
Power input:
 - 1-phase current: 0.72 kW
- Protection category IP 65 (jet-water protected)

Control electronics

- Micro-processor control in separate housing with integrated membrane keypad "Open-Stop / Open-Stop-Close", miniature lock
- Protection category IP 65 (jet-water protected)
- Bluetooth for BlueControl as standard
- Connection cable with CEE plug in protection category IP 44 (splash-water protected)
- Control fitting directly next to the sliding door
- Dimensions (W × H): 195 × 310 mm

Patented compensator release system in case of fire

Function description:

- Opening with press-and-hold
- Closing with press-and-hold

► An affordable solution for an opening aid to open and close heavy doors

Notes:

- Clear passage width min. 1465 mm, max. 8000 mm
- Single-leaf: Only possible as normal guiding version with guiding profile and normal guiding version with guiding profile with diverted weight (not possible for flush-stopping doors)
- Only wall fitting and suspended ceiling fitting possible
- For doors with operator in combination with a wicket / escape door, optional wicket / escape door protection or monitoring is required
- On-site wiring

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

Chain drive operator ITO 500 FU with control 445 / "Open / Close" function, press-and-hold control



Chain drive operator ITO 500 FU for fire sliding doors FST (Hold-open device required)	• "Open / Close" function with press-and-hold	Article no.	€
Operator ITO 500 FU for single-leaf fire sliding doors up to 2500 kg door weight			
• Including patented compensator release system • Including modified track • Fire protection door leaf weight: – EI₂₃₀ = 40 kg/m² – EI₂₆₀ / EI₂₉₀ = 50 kg/m²		4840142	3680



Chain drive operator ITO 500 FU for multi-purpose sliding doors FST	• "Open / Close" function with press-and-hold	Article no.	€
Operator ITO 500 FU for single-leaf multi-purpose sliding doors up to 2500 kg door weight			
• Without patented compensator release system (only for fire sliding doors FST) • Including modified track • Multi-purpose door leaf weight: – With honeycomb infill = 30 kg/m² – With mineral wool insulation: 40 kg/m²		4840143	2876



Chain drive operator ITO 500 FU with impulse operation	• Function "Open / Close", impulse	Article no.	€
Operator ITO 500 FU for single-leaf fire sliding doors Automatic "Open / Close" function with impulse			
Chain drive operator ITO 500 FU for fire sliding doors FST including control housing and 3 x safety sensor Bea LZR-i110		4840144	9932



Chain drive operator ITO 500 FU with impulse operation	• "Open / Close" function with impulse	Article no.	€
Operator ITO 500 FU for single-leaf multi-purpose sliding doors Automatic "Open / Close" function with impulse			
Chain drive operator ITO 500 FU for multi-purpose sliding doors FST including control housing and 3 x safety sensor Bea LZR-i110		4840145	9163

Equipment options for fire and multi-purpose sliding doors FST OD in combination with operator ITO 500



Prepared for operator ITO 500 FU (for fire sliding doors FST)	Article no.	€
Door leaf and frame prepared for subsequent retrofitting of operator consisting of:		
• Compensator function, track panel including panel bracket, link bracket set, track extension 350 mm, prepared for release lever	4840146	999
Chain drive operator ITO 500 FU with control 560, 230 V 1-phase current		
• Connection options compared to control 545 such as Half open / Half closed, photocell inputs, timer, high-speed etc.	Article no.	€
	4840148	1430

Notes and sketches

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

6 Operators / opening aids			
6.1	Operators / opening aids	Article no.	€
1	Operators for fire and multi-purpose sliding doors FST (single-leaf, double-leaf, telescopic) - Arranged in the parking area - Incl. power supply unit, magnet, 2-way "Open / Close" button, surface-mounted - Door leaf weight $El_{2,30} = 40 \text{ kg/m}^2$, door leaf weight $El_{2,60} / El_{2,90} = 50 \text{ kg/m}^2$, MZ honeycomb insert = 30 kg/m^2, MZ mineral wool insert = 40 kg/m^2 Note: - For doors with operators in combination with a wicket / escape door, optional wicket / escape door protection or monitoring is required. - The stated weights constitute the door weight.		
	Operators – for fire sliding doors FST up to 2500 kg		
	Up to 800 kg: Operator SupraMatic HT with integrated control	2017553	2610
	// Affordable solution for single-leaf doors from 800 – 2500 kg: Operator / opening aid ITO 500 with control 545	2017723	3680
	Operators – for multi-purpose sliding doors FST up to 2500 kg		
	Up to 800 kg: Operator SupraMatic HT with integrated control	2017568	1727
	// Affordable solution for single-leaf doors from 800 – 2500 kg: Operator / opening aid ITO 500 with control 545	2017724	2876
	Schnetz opening aids – for fire and multi-purpose sliding doors FST		
	Operator variants ATS-300 (400 – 1500 kg), ATS-400 (1500 – 2000 kg), ATS-600 (2000 – 3000 kg)	Configurable via the product configurator	
2	Surcharge Schnetz for double-leaf doors with symmetrical division of leaves Surcharge on opening aid, item	2016995	526
3	Surcharge Schnetz for double-leaf doors with asymmetrical division of leaves Surcharge on opening aid, item "1"	2016996	1048
4	Surcharge Schnetz for telescopic doors Surcharge on opening aid, item "1"	2016980	689
5	Additional 2-way "Open / Close" button for opening aid, surface-mounted, without cable Each	2017078	133
6	Emergency power supply UPS GLCD 2-1000 , approx. 2.5 hours separate, uninterruptible power supply, 230 V AC with converter to maintain the function of the hold-open brakes in the event of a power failure. Each	2017080	1095
7	Main switch for Schnetz opening aid and operators	2033711	125
Note for Schnetz opening aid: Hold-open device additionally required. Note the surcharge.			
6.2	Operator Liberda (special operators)	Article no.	€
1	- For fire sliding doors ► Price calculation via product configurator possible Attention: With multi-purpose doors, operators are only approved in the form of opening aids (press-and-hold control) ► Note: Please contact the factory prior to ordering (product currently without CE marking)	Configurable via the product configurator	

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

7 Recess and ceiling flaps

Recess and ceiling flaps surface finish

As standard

- For galvanized door leaf version, galvanized flaps
- For door leaf in RAL 9002 primer-coated, flaps in RAL 9002 primer-coated at no surcharge
- For door leaf in RAL to choose, flaps in RAL to choose at no surcharge

Optional

- Flaps without coating, galvanized, door leaf primed or RAL to choose, **see price reduction**
- Flaps in stainless steel version V2 A, 1.4301
- Flaps in version with stainless steel cladding frame for gypsum board, timber or tile cladding, cladding depth 10 mm, max. cladding mass 25 kg/m²

Recess flap MZ, EI₂30, EI₂60, EI₂90

- Including locking through electric magnets and anchors
- 3-way adjustable hinges and spring hinge for automatic opening after magnet release
- High-quality, double-shell version

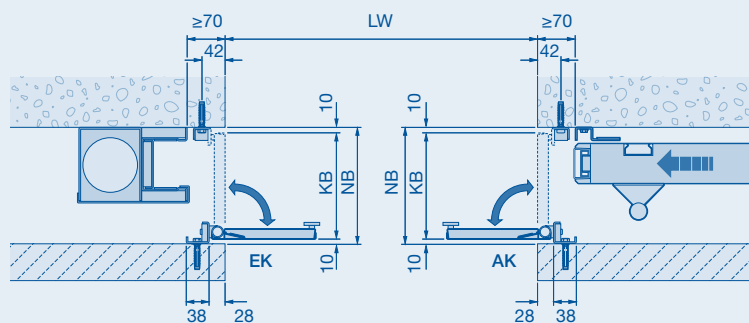
MZ EI₂30 EI₂60 EI₂90

Recess width (NB) 180–280 mm for single-leaf and double-leaf FST

Recess width (RW) 305–380 mm for telescopic FST

Notes:

- Recess width ≤ 215 mm: With outlet recess flaps, a door leaf with recessed handle is required on both sides (vertically offset), for the option with fitted wicket / escape door, recessed lever handles on both sides and a concealed ITS 96 are required
- A basic latching without hold-open device is supplied for multi-purpose sliding doors.
- (Manual opening by “clicking”, manual extension of the door)
- Door may not be locked if there is a recess flap on the inlet side
- Wall projection in parking and inlet area additionally +40 mm, 1-part flap height max. 3980 mm, greater heights multi-part
- Note surcharge for hold-open device (see page 94)
- In the stainless steel version, 3-way adjustable hinges are made of stainless steel V2 A, 1.4301, and the invisible spring hinge is galvanized
- 15 mm edge gap



Recess flaps for the wall area, horizontal view single-leaf and double-leaf sliding door

LW Structural opening
EK Inlet flap
KB Flap width
NB Recess width

Recess flap 90° opening

Choice of galvanized or RAL 9002 primer-coated:

Price reduction for omission of flap coating (galvanized flaps), coated door leaf

Stainless steel V2 A, 1.4301

Stainless steel cladding frame V2 A, 1.4301 for gypsum board, timber or tile cladding

Fitting set for recess flap fastening for the simultaneous fitting of sliding door and recess flap

Notice:

- The base construction of the outer shell does not have to be present
- The recess flap must be fastened to the base construction of the outer shell by the next subsection
- Potential second fitting trip not required
- Max. flap height: 3980 mm

Surcharge

Floor recess for recess flap

	Article no.	€
On one side – basic price up to height of 2500 mm	2015132	1241
On one side – per additional metre in height	2015133	251
On both sides – basic price up to height of 2500 mm		2482
On both sides – per additional metre in height		502
Price reduction per flap	2017128	176
On one side – basic price up to height of 2500 mm	2017126	2728
On one side – per additional metre in height		453
On both sides – basic price up to height of 2500 mm	2017127	5456
On both sides – per additional metre in height		906
On one side – basic price up to height of 2500 mm	2017321	2728
On one side – per additional metre in height		453
On both sides – basic price up to height of 2500 mm	2017322	5456
On both sides – per additional metre in height		906
Surcharge	2016578	282
	4840119	315

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

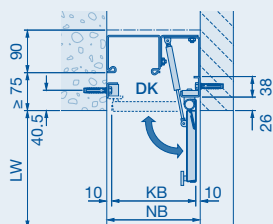
Ceiling flap MZ, EI₂30, EI₂60, EI₂90

- Including locking through electric magnets and anchors
- 3-way adjustable hinges and hydraulic damper units for the controlled opening of the ceiling flap
- High-quality, double-shell version



Notes:

- The wall projection in the lintel area is additionally +45 mm
- 1-part flap height max. 3980 mm, greater flap height multi-part
- Only in conjunction with recess flap
- Recess width (NB) 205–280 mm for single-leaf and double-leaf FST
- Recess width (RW) 330–380 mm for telescopic FST
- A basic latching without hold-open device is supplied for multi-purpose sliding doors.
(Manual opening by “clicking”, manual extension of the door)



Ceiling flaps for the lintel area, vertical view of single-leaf and double-leaf door

- LW Structural opening
- DK Ceiling flap
- KB Flap width
- NB Recess width

Ceiling flap (in combination with recess flaps)		Article no.	€
Control FSA-Plus is required for ceiling flaps in combination with recess flap(s)			
Hold-open devices FSA-Plus for ceiling flaps in combination with recess flaps	Per set	2033181	2427
Emergency power batteries for FSA-Plus – 12 V DC / 2.3 Ah (required 2 x) (For the time-delayed activation of recess flaps, ceiling flap and door leaf)	Each	2033829	110
Optical smoke detector H-RM-4070 (set including fitting base) (With opening width > 4000 mm and / or headroom > 1000 mm) Note the required number and arrangement, see page 99.	Per set	4840016	227
Ceiling flap without recess flaps		Article no.	€
The hold-open device control for recess flaps is required for ceiling flaps without recess flap(s)			
Hold-open device control FSA-Basis for recess flap (Required for the time-delayed activation of ceiling flap and door leaf)	Surcharge	4840018	223
Optical smoke detector H-RM-4070 (set including fitting base) (With opening width > 4000 mm and / or headroom > 1000 mm) Note the required number and arrangement, see page 99.	Per set	4840016	227

Version:

Galvanized or RAL 9002 primer-coated:	Basic price for door width up to 2000 mm	2017129	1694
	Per additional metre in length	2017197	278
Price reduction for omission of flap coating (galvanized flaps), coated door leaf	Price reduction per flap	2017128	176
Stainless steel V2 A, 1.4301	Basic price for door width up to 2000 mm	2017456	3388
	Per additional metre in length	2017455	556

Surcharge for the lamination of recess and ceiling flaps (galvanized version) with shielding fleece	Flat rate per flap	2017554	366
• For on-site painting of the flaps with interior wall colour			
Surcharge for RAL to choose with recess and ceiling flaps (flaps coloured, door leaf galvanized)	Flat rate per door	2017012	1266
• No surcharge if door from standard range is ordered in RAL to choose			
• Surcharge must be added when ordering a galvanized or powder-coated (primed) door leaf, Grey white RAL 9002, and recess / ceiling flaps in RAL to choose			
Surcharge for separate delivery of sliding door and recess / ceiling flaps	Flat rate per order	2017575	871
• No surcharge when ordering door and recess / ceiling flaps from standard range			
• Surcharge must be added when ordering a door from the fast-track programme and recess / ceiling flaps from the standard range (criteria for fast-track programme for doors must be fulfilled)			

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

8 Hold-open devices				
8.1 Hold-open devices description				
1	Hold-open device for doors with or without operator (e.g. SupraMatic HT / ITO 500 FU) Consisting of: (country-specific number of components) • Hold-open device control Basis incl. acoustic alarm system and integrated "Close" push button • Smoke detector including fitting base (note the required number and arrangement, see page 99) • Optional: Flashing warning light, optical / acoustic alarm system FSA-OAW incl. flashing warning light, additional "Close" push button, fire alarm mounting bracket for lintel fitting			
	Hold-open device for doors with emergency power supply For bridging power failures or for doors with recess and ceiling flaps (for time-delayed activation) Consisting of: (country-specific number of components) • Hold-open device with emergency power supply FSA-Plus incl. acoustic alarm system and integrated "Close" push button • Smoke detector including fitting base (note the required number and arrangement, see page 99) • Optional: Flashing warning light, additional "Close" push button, fire alarm mounting bracket for lintel fitting			
	Notice: Emergency power batteries are not included in the FSA-Plus scope of delivery. These must be calculated separately (see section 8.2/2)			
	Hold-open device with Schnetz opening aid Consisting of: (country-specific number of components) • Hold-open device control Basis incl. acoustic alarm system and integrated "Close" push button • Smoke detector including fitting base (note the required number and arrangement, see page 99) • Optional: Flashing warning light, optical / acoustic alarm system FSA-OAW incl. flashing warning light (in case of power failure), additional "Close" push button, fire alarm mounting bracket for lintel fitting • Double "Open / Close" button			
4	Hold-open device for Russia Consisting of: (country-specific number of components) • Power supply unit HNP 18-240 • "Close" push button, surface-mounted or recessed			
8.2 Hold-open device controls			Article no.	€
1	Hold-open device control FSA-Basis Power supply, control, integrated actuation button, reset button, including acoustic alarm system (without capacitor buffering)	Each	4840018	223
	Flashing warning light for direct connection to FSA-Basis	Each	2017608	85
1.1	Optical and acoustic alarm system FSA-OAW With capacitor buffering for power failures	Each	2033182	416
	Flashing warning light for connection to the FSA-OAW	Each	2017608	85
2	Hold-open device control FSA-Plus with emergency power supply For bridging in case of power failure or for time-delayed activation of recess flaps and ceiling flaps, IP 54, 230 V AC / 24 V DC, including wall mounting for housing	Each	2033181	2427
	Emergency power batteries for FSA-Plus – 12 V DC / 2.3 Ah (required 2 x)	Each	2033829	110
	Flashing warning light for connection to the FSA-Plus	Each	2017608	85
	Control FSA-FLEXControl		2017630	2025
3	Flashing warning light for direct connection to FSA-FLEXControl	Each	2017608	85
3.1	Optical and acoustic alarm system FSA-OAW With capacitor buffering for power failures	Each	2033182	416
	Flashing warning light for connection to the FSA-OAW	Each	2017608	85
4	Control FSA-FLEXeco Basis	Each	2033299	435
	Control FSA-FLEXeco Plus	Each	2033298	1805
8.3 Fire detector			Article no.	€
1	Optical smoke detector H-RM-4070 (set including fitting base) ► Note the required number and arrangement, see page 99	Per set	4840016	227
2	Optical smoke detector H-RM-4070 in black (set including fitting base) ► Note the required number and arrangement, see page 99	Per set		317
3	Heat sensor H-TM-4070 (set including fitting base) Is used if dust, smoke or steam is to be expected during operation ► Note the required number and arrangement, see page 99	Per set	4840017	237
	Important: Must not be used for doors in escape and rescue routes!			
4	Smoke detector mounting bracket (steel) For lintel fitting. Suitable for optical smoke detectors and thermal smoke detectors	Galvanized Each	2033856	16
5	Extended smoke detector mounting bracket (steel) Galvanized, for lintel fitting. Suitable for optical smoke detectors and thermal smoke detectors	L: 541.5 mm Each	2017630	107
		L: 700 mm Each	2033854	113

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

6	Smoke detector fitting base UH for fitting to hollow ceilings Fitting base for optical smoke detector and heat detector in dry rooms with suspended ceilings	Each	2017682	80
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Notice:

In addition to Hörmann hold-open device components, Hekatron components are available. These can be selected with their prices in the product configurator.

8.4	Additional components for hold-open devices		Article no.	€
1	Flashing warning light for FSA-Basis, FSA-OAW and FSA-FLEXControl	Each	2017608	85
2	H-BS Basis interface (for sliding doors FST with or without operator SupraMatic HT/ITO)	Each	2033194	262
3	"Close" push button HAT 02 , surface-mounted or recessed	Each	2015363	73
4	Power supply unit HNP 18-240, 24 V / DC for magnet (only for Russia) 24 V / DC, max. 750 mA, power supply unit	Each	2017276	70
5	Connecting lead ZL1 , length 1.5 m with safety plug for hold-open device control FSA-Basis, FSA-Plus and FSA-FLEXControl	Each	436127	9.50

8.5	Radio hold-open device components		Article no.	€
1	Radio receiver / radio module FM 155F (148 × 30 × 28 mm, IP 40)	Each	4840134	467
2	Radio smoke detector ORS 155F (−30°C to +70°C, incl. fitting base)	Each	4840135	267
3	Radio hand button HAT 155F (80 × 80 × 62 mm), surface-mounted	Each	4840136	309
4	Radio hand button HAT 155F (80 × 80 × 62 mm), recessed	Each	4840136	309

9 Hold-open devices for fire sliding doors with automated guided vehicle system (FTS)

9.1	Description
1	Conveyor system door control FAA-Plus for automated guided vehicle systems (FTS) The conveyor system control FAA-Plus for sliding doors (EI ₂ 90) for track-bound conveyor systems using automated guided vehicle systems FTS (section 9.2 – 1 + 2) or The retrofitting option for fire sliding doors (type FST) existing on site when changing the use of a fire-rated door (FSA) to a conveyor system door (FAA) when using automated guided vehicle systems. (section 9.2 – 1 + 2 + 3)

9.2	Conveyor system door components for FTS system incl. approval by an expert		Article no.	€
1	Control FAA-Plus	Each	2033297	2614
2	Emergency battery 12 V / 7 Ah for control FAA-Plus (required 2 ×)	Surcharge	2033816	110
3	Limit switch incl. mounting plate (required 1 ×)	Each	2017685	245
4	Approval by an expert (only in Germany) According to construction technique permit for FAA-Plus (after order placement, acceptance takes place within max. 6 weeks) Important: Orders are generally placed via the regional sales office. Order placement via the factory is possible in special cases.	Basic price for 1 door		5974
		Each additional door		1557
5	Control heating FAA PLUS for cold store areas (e.g. −24°C / −24°C) Thermostat: Switching point 5°C consisting of: • Foil heating for keypad: 24 V – 17 W • Control heating: 230 V AC – 0.44 A – 100 W	Surcharge for section 1		970

Notice:

For existing sliding doors with operator / opening aid, the FAA-Plus activation device must additionally be equipped with an extension circuit board at a surcharge. Please contact the factory in this case.

Optional extras

For fire and multi-purpose sliding doors FST OD

► The following prices are only valid in combination with a fire sliding door or multi-purpose sliding door and are surcharge items.

10 Miscellaneous			
10.1	Special widths / special heights (doors larger than the maximum approved door height / door width)		€
1	Surcharge for special widths IMPORTANT: If the maximum door width listed in the price list for multi-purpose sliding doors is exceeded, a surcharge must be charged per 500 mm LDB.	Per 500 mm LDB	Max. LDB + 6%
2	Surcharge for special heights IMPORTANT: If the maximum door height listed in the price list for multi-purpose sliding doors is exceeded, a surcharge must be charged per 500 mm LDH!	Per 500 mm LDH	Max. LDH + 8%
10.2	Increase of the number of door leaf elements	Article no.	€
1	Increase of the number of door leaf elements As standard, the automatic configuration of the number of elements per door leaf depends on the door height and a maximum panel weight for fitting of 180 kg. The number of elements can be increased: - For architectural, aesthetic reasons - For easier fitting of doors By entering the approximate desired weight per element or changing the number of elements. Notice: - Only possible for single- and double-leaf sliding doors - Configuration only possible via product configurator - Only uniform divisions possible - Not configurable for sliding doors with wicket door, element glazing, recess and ceiling flaps, door leaf locking		
	Up to 4500 mm LDH per additional element	2017036	625
	From 4500 mm LDH per additional element	2017037	766
10.3	Edging profile for sloping sliding doors	Article no.	€
1	Edging profile Profile consisting of U-profile and L-profile for sliding doors with sloping bottom. The door leaf is made shorter in this version (theoretical gap of door leaf 50 mm) and is adapted to the slope of the floor on site using the edging profile supplied. - Maximum height difference between main and secondary closing edge is 300 mm - Available for MZ and El230 - Increased wall projection on the side of 250 mm - Special stainless steel floor guide roller - No wicket / escape door possible	4840171	348
10.4	Collision guard and anti-collision bollard	Article no.	€
1	Collision guard I (W × H) 1250 mm × 400 mm, without fixing material - Tube diameter: 114 mm × 4 mm - Bottom plates 120 mm × 200 mm for plug-and-screw fitting	Painted version, similar to RAL 1021 Rape yellow 2036900	472
2	Collision guard II (W × H) 625 mm × 400 mm, without fixing material - Tube diameter: 114 mm × 4 mm - Bottom plates 120 mm × 200 mm for plug-and-screw fitting	Painted version, similar to RAL 1021 Rape yellow 2036901	336
3	Anti-collision bollard (H × D) 1000 mm × 114 mm, without fixing material - Tube diameter: 114 mm × 4 mm, with plastic cover - Bottom plates 200 mm × 200 mm for plug-and-screw fitting	Painted version, similar to RAL 1021 Rape yellow 2036902	220
10.5	Additional accessories	Article no.	€
1	Hose flap 300 × 300 mm (LDB × LDH) version with 22 mm threshold rail, depth 62 mm, folding ring on both sides, black version. Important: Only approved in Russia!	2017105	1817

Side door STU, Pearlgrain

MZ

EI₂30EI₂60EI₂90

Matching Pearlgrain sliding doors FST OD

Product description

General

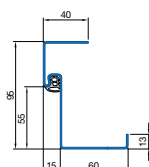
Ready-to-fit door set, as standard with lever handle set, black plastic, mortice lock with profile cylinder (alternatively round cylinder version), three-way adjustable heavy-duty hinges galvanized. Side doors STU are galvanized as standard without coating.

Door leaf

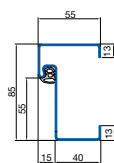
Flush, fully bonded thick rebate door construction
Galvanized sheet steel, sheet thickness 0.75 mm, Pearlgrain textured

Standard frame variants*

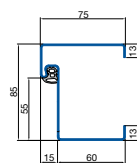
Corner frame 40



Block frame 85



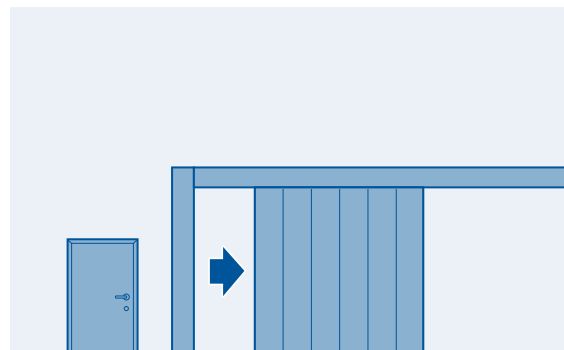
Block frame 85/55



Block frame 85/75

Frame type 3-part as standard (screw / plug-in connection) Drytec frame system – mineral wool infill backfilled at the factory, galvanized sheet steel, sheet thickness 1.5 mm, smooth version

* Other frame versions possible. See current dealer price list part B.



Side door STU, Pearlgrain

Sliding door FST, Pearlgrain

Size range and surface coating

€

Ordering sizes

Overall frame dimensions (RAM)

From (W × H): 770 × 1865 mm

Up to (W × H): 1300 × 2299 mm

(Clear passage height)

Galvanized Pearlgrain, without coating

MZ

1088

EI₂30

1517

EI₂90

2113

Surface coating

Preferred colours*

Flat rate per unit

364

RAL to choose

Flat rate per unit

424

NCS to choose, IGP to choose, Metallic, DB 701, DB 702, DB 703, CH 9007

Flat rate per unit

575

* Preferred colours: RAL 3000, RAL 7016, RAL 7035, RAL 9006, RAL 9007, RAL 9010, RAL 9016

Notice:

- Additional versions and performance characteristics possible. For details and gross prices see the current dealer price list part B. The respective discount rates apply.
- Side doors STU in fire-rated version EI₂30 and EI₂90 feature slide rail overhead door closer HDC 35 as standard (standard fitting on hinge side). Coated side doors STU with galvanized 3-way adjustable heavy-duty hinges as standard.

Standard packaging

For fire and multi-purpose sliding doors FST OD

The standard packaging for fire and multi-purpose sliding doors FST consists of 2 collection units:

- **Standard timber element pallet**, with door leaf elements in the fitting sequence, shrink-wrapped in perforated, air-permeable plastic film.
- **Standard timber frame pallet**, with tracks and, if applicable, weight box, weights, panels, integrated accessory pack, shrink-wrapped in perforated, air-permeable plastic film, 4 pallets can be stacked on top of each other.

Notice:

- Door leaf elements are labelled and delivered packaged in the correct fitting sequence.
- On one standard element pallet, a maximum of 8 door leaf elements of up to 1200 mm width are stacked horizontally on top of each other.
- For optional wicket door or door leaf element widths >1200 mm, the door leaf elements are packaged standing on a timber A pallet.
- Frame pallet includes accessory pack with labelled contents.

Special packaging

For fire and multi-purpose sliding doors FST OD

Transport pallets – IPPC standard (sea freight) – special packaging					
For sliding door dimensions to approx.		Number of element pallets *	Number of frame pallets *	Version according to IPPC standard	Art. no.
Length mm	Width mm			€	
2000	2000	1	1	331	2017130
3000	3000	1	1	331	2017131
4000	4000	1	1	331	2017132
5000	5000	1	1	331	2017133
6000	6000	1	1	331	2017134
7000	7000	2	2	660	2017135
8000	8000	2	2	660	2017136
9000	9000	2	2	672	2017137

* The number of element / frame pallets can be higher depending on the door version.

Notice:

To protect local forests against introduction of wood pests, the IPPC (International Plant Protection Convention) has introduced the ISPM 15 (International Standards for Phytosanitary Measures).

The basic contents of ISPM 15 are its application to solid wood, the treatment of the packaging according to recognised measures (HT – heat treatment, KD – kiln drying, CPI – chemical pressure impregnation, MB – methyl bromide) and the marking of packaging with the IPPC stamp.

Transport crates for standard sliding doors – special packaging							
For sliding door dimensions to approx. *		Version					
		Crate		Air freight		Sea freight	
Length mm	Width mm	Weight	€	Weight	€	Weight	€
2000	2000	80	836	140	1335	160	1450
3000	3000	100	1034	160	1614	180	1727
4000	4000	120	1421	220	2252	250	2367
5000	5000	150	1700	260	2668	290	2805
6000	6000	170	2034	350	3168	350	3337
7000	7000	200	2310	400	3890	430	4170
8000	8000	250	2919	450	4447	490	4779
9000	9000	300	3197	500	5086	550	5418

* Dimensions of transport crates depending on door version on request

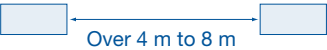
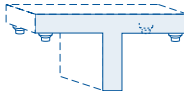
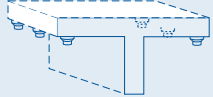
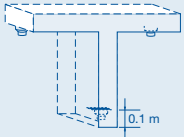
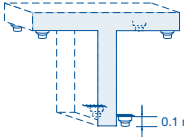
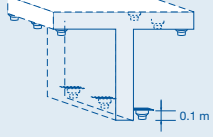
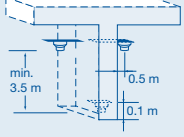
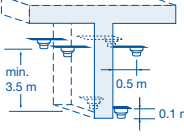
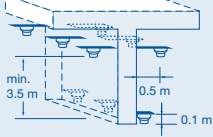
Notice:

For sliding doors with special equipment, please request the dimensions and prices for special packaging.

For countries with high transport costs, transport costs for collection by the customer may be optimised through an alternative packaging of wicket doors.

Calculating the number of smoke detectors

For fire sliding doors FST OD

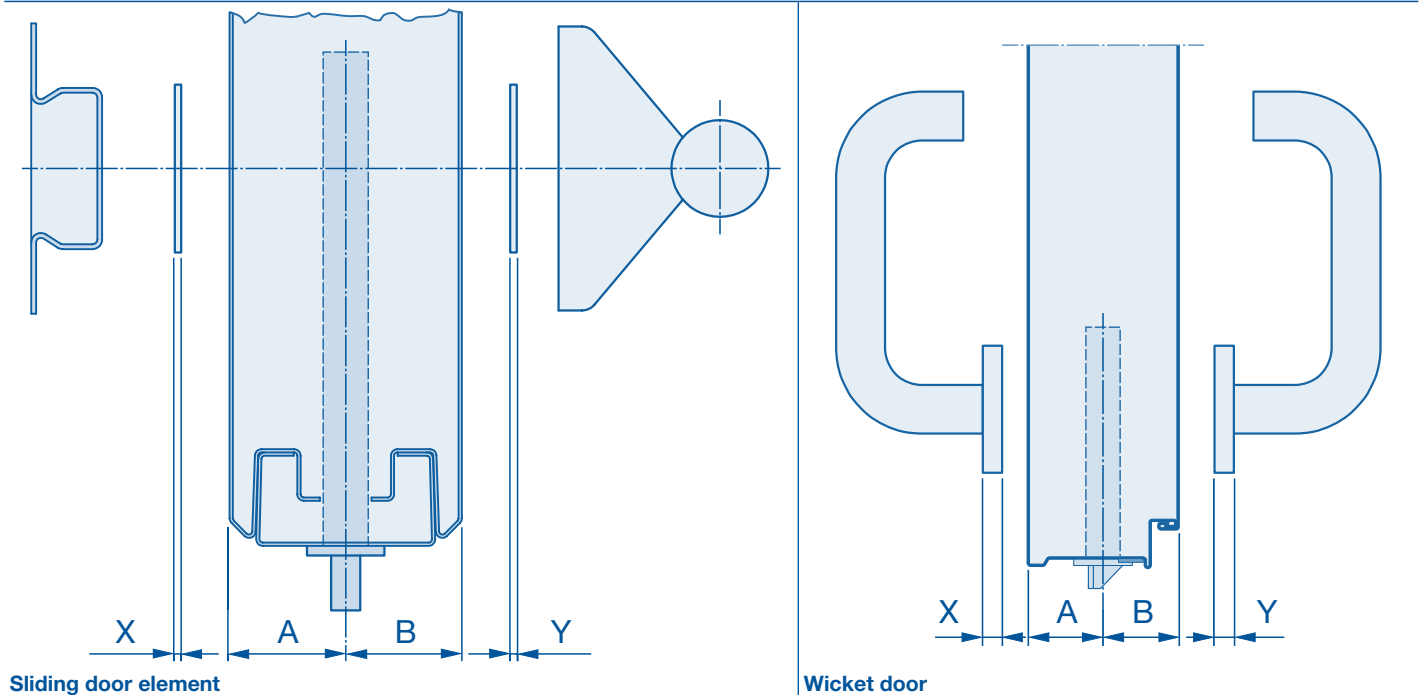
Arrangement and number of smoke sensors for fire sliding doors FST				
Opening width				
				
Headroom	2 ceiling smoke detectors	4 ceiling smoke detectors	6 ceiling smoke detectors	
 1	 A	 B	 C	
Headroom	2 ceiling / 1 lintel smoke detectors	4 ceiling / 2 lintel smoke detectors	6 ceiling / 3 lintel smoke detectors	
 2	 A	 B	 C	
Headroom	3 lintel smoke detectors	6 lintel smoke detectors	9 lintel smoke detectors	
 3	 A	 B	 C	

For information on fitting types, guide variants, recess and ceiling flaps for fire sliding doors and telescopic fire sliding doors, please see the “Telescopic fire sliding doors / fire sliding doors – Fitting data” brochure.

Determining the cylinder length for sliding doors / wicket doors

For sliding doors FST OD

Cylinder length for flush fitting of door hardware



Cylinder length = X + A + B + Y

	Profile cylinder	Article no.	€
1	Profile cylinder (PC) 40.5 + 40.5 mm for door leaf	2032991	41
2	Profile cylinder (PC) 35.5 + 35.5 mm for wicket door lever handle combination of half handle set / sports hall recessed handle	2015417	41
3	Profile cylinder (PC) 35.5 + 35.5 mm for wicket door lever handle combination of half handle set / folding ring recessed handle	2015417	41
4	Profile cylinder (PC) 27.5 + 27.5 mm for wicket door lever handle combination of sports hall recessed handle / sports hall recessed handle	2032998	41

Notes and sketches

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.

