Fire doors
## Standard program overview

**Fire doors**

### Fire-resistant and fire-proof steel doors

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Fire-resistant sliding steel door
T 30-1-FSA “Teckentrup 72 E”
Optionally with wicket door, optionally with glazing

Text example
Compile and tender according to requirements.
Please refer to technical data below for respective details.
Updated 1st June 2015

Technical data
Building authority approval:
Fire-proof sliding steel door T 30-1-FSA, tested in accordance with DIN 4102/EN 1634-1. Single-leaf door opening to the left. Galvanized door leaf, 72 mm thick (element design). With 3-sided door seal, galvanized. Door suspension consisting of tubular guide rail with double twin running gears. Automatic closing of the door due to counterweights in the protective box. „Teckentrup 72 E“ (approval no. Z-6.20-2137) or equivalent.

Ordering details: wall and header thickness (concrete __ mm/masonry __ mm / autoclaved aerated concrete __ mm). Type of wall in the slide-back area at the guide rail concrete/masonry thickness ___. Door opens left/right (seen from the fixing side of the door). Headroom ____ mm (min. 210 mm for wall installation) left-hand space ____ mm (clear width + 440 mm or 700 mm - slide-back area) right-hand space ____ mm (min. 310 mm). With/Without wicket door

Wicket door:
Between two door leaf elements
• Door leaf: double-skinned, rebated on 3 sides, without threshold.
• Insulation: mineral fibre and gypsum boards
• Sheet thickness: 1.0 mm
• Door leaf thickness: 72 mm
• Fitting:
  2 three-piece 3D-hinges, mortice lock with latch lever as per DIN 18250, prepared for profile cylinder, special handle set, black, slide rail door closer according to DIN EN 1154.
  Special equipment: profile cylinder 45 + 30, panic lock, optionally two wicket doors.

Glazing for door leaf and wicket door:
Fire-resistant glass “Promaglas 30”, 17 mm thick with steel glass holding strips

Fittings:
• Tubular guide rails with height-adjustable double twin running gears on ball bearings
• 2 damping cylinders
• 1 radial damper
• 1 recessed handle/1 push handle
• Guide rail cover, insulated
• Guide rail cover in the opening area

Further qualifications (special equipment):
• Smoke-proof in acc. with DIN 18095 / EN 1634-3 (except VA)
  NEW available with wicket door

<table>
<thead>
<tr>
<th>Position</th>
<th>No. of pieces</th>
<th>Item</th>
<th>Unit price €</th>
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<tr>
<td>Fire-proof sliding steel door T 30-1-FSA, tested in accordance with DIN 4102/EN 1634-1. Single-leaf door opening to the left. Galvanized door leaf, 72 mm thick (element design). With 3-sided door seal, galvanized. Door suspension consisting of tubular guide rail with double twin running gears. Automatic closing of the door due to counterweights in the protective box. „Teckentrup 72 E“ (approval no. Z-6.20-2137) or equivalent.</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
Fire-resistant sliding steel door
T 30-1-FSA "Teckentrup 72 E"
Optionally with wicket door, optionally with glazing

Installation of the guide rail:
1. Through bolts M12 for masonry
2. Steel expansion plugs for concrete
3. Weld-on assembly to concreted anchor plates
4. Screw-on assembly on covered steel beam

Dimension N:
- for columns min. 200 mm
- for recess shutter min. 280 mm
- and ceiling cover min. 300 mm

[ ] For autoclaved aerated concrete walls
# on B:H > 2:1 = + 175 mm (doubled counterweights)

Counterweight at the run-in side
Counterweight behind the opened door

Clear width B 1000 to 8500 mm
Wicket door without threshold

Opening to the right shown, opening to the left laterally reversed

Required space = B + 440 [490] #
+ 160 version with drive

Required space = B + 700 [750] #
+ 160 version with drive
**Fire-resistant sliding steel door**

**T 30-2-FSA “Teckentrup 72 E”**

Optionally with wicket door, optionally with glazing

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### Text example

Compile and tender according to requirements.

Please refer to technical data below for respective details.

Updated 1st June 2015

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### Technical data

#### Building authority

**Approval:** Fire-proof sliding steel door T 30-2-FSA “Teckentrup 72 E” Z-6.20-2137 tested as per DIN 4102-5/EN 1634-1

**Approved wall types:**

- Guide rail area:
  - Concrete: min. 140 mm
  - Masonry: min. 175 mm
  - Covered steel beams: F60-A
- Lateral walls:
  - Concrete: min. 140 mm
  - Masonry: min. 175 mm
  - Aerated concrete: min. 200 mm
  - Covered steel beams and aerated concrete slabs: min. 175 mm

**Approved dimensions:**

- Clear width: 1500 - 8500 mm
- Clear height: 2000 - 6000 mm

**Installation:**

Lintel mounting or ceiling mounting

**Opening direction:**

Door opens to the left or right

**Door leaf:**

- Door leaf consisting of individual elements (number of elements acc. to opening width), double-skinned
- Insulation: mineral fibre and gypsum boards
- Sheet thickness: 1.0 mm
- Element weight: approx. 38 kg/m²
- Door leaf thickness: 72 mm
- Door seal:
  - Galvanized seal profiles, 2 mm thick, on 3 sides
  - Guide rollers (lower door guide)
  - 2 weight boxes with counterweights (behind the run-in side)

**Surface:**

Door leaf and seal galvanized

**Special equipment:**

- Complete hold-open device consisting of:
  - smoke detectors, number of smoke detectors according to DIBt guidelines, issued 1998.
  - 2 magnetic clamps
  - 1 mains rectifier 220/24 V
  - 1 emergency release button.
- Acoustic alarm signal
- Complete electric drive (opener)
- Free-wheel function
- Hook lock
- Profile cylinder 40 + 40 mm
- Niche flap
- Recess shutter
- Artifical buffer
- Artifical headroom

**Further qualifications** (special equipment):

- **Smoke-proof** as per DIN 18095 / EN 1634-3 (without wicket door) max. 30.35 m²/except VA

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### Wicket door:

- Between two door leaf elements
- Door leaf: double-skinned, rebated on 3 sides, without threshold.
- Opening to both sides possible.
- Clear dimensions of door:
  - Height: 2009 mm (755 x 1820 mm)

**Wicket door dimensions:**

- Left-hand space: ______ mm (clear width/2 + 650 mm - slide-back area)
- Right-hand space: ______ mm (min. 310 mm)

**Wicket door special equipment:**

- Complete electric drive (opener)
- Free-wheel function
- Profile cylinder 40 + 40 mm
- Niche flap
- Recess shutter
- Artifical buffer
- Artifical headroom

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### Glazing for door leaf and wicket door:

Fire-resistant glass “Promaglas 30”, 17 mm thick with steel glass holding strips

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### Also available in STAINLESS STEEL
Fire-resistant sliding steel door
T 30-2-FSA “Teckentrup 72 E“
Optionally with wicket door, optionally with glazing

Installation of the guide rail:
1. Through bolts M12 for masonry
2. Steel expansion plugs for concrete
3. Weld-on assembly to concreted anchor plates
4. Screw-on assembly on covered steel beam

Dimension N:
- for columns min. 200 mm
- for recess shutter min. 280 mm
- and ceiling cover min. 300 mm

[ ] For autoclaved aerated concrete walls

Required space = \( \frac{B}{2} + 620 \) [640]

Clear width B 1500 to 8500 mm

Wicket door without threshold

Structural opening (RRM)
height H 2000 to 6000 mm

with wicket door
and glazing

with wicket door
with glazing

Ceiling installation:
concrete lintel

Ceiling installation:
dummy lintel

Installation of the guide rail:
1. Through bolts M12 for masonry
2. Steel expansion plugs for concrete
3. Weld-on assembly to concreted anchor plates
4. Screw-on assembly on covered steel beam

Dimension N:
- for columns min. 200 mm
- for recess shutter min. 280 mm
- and ceiling cover min. 300 mm

[ ] For autoclaved aerated concrete walls

Required space = \( \frac{B}{2} + 620 \) [640]

Clear width B 1500 to 8500 mm

Wicket door without threshold
### Technical data

**Building authority approval:**
- Fire-proof sliding steel door T 90-1-FSA “Teckentrup 72 E”
  - Z-6.20-2103 tested as per DIN 4102-5/EN 1634-1

**Approved wall types:**
- Guide rail area:
  - Concrete min. 140 mm
  - Masonry only slide-back area: min. 175 mm
  - Covered steel beams F90-A
- Lateral walls:
  - Concrete min. 140 mm
  - Masonry min. 175 mm
  - Aerated concrete walls reinforced concrete slabs min. 200 mm
  - covered steel beams and F90-A

**Approved dimensions:**
- Clear width: 1000 - 8500 mm
- Clear height: 2000 - 6000 mm

**Installation:**
- Lintel mounting or ceiling mounting

**Opening direction:**
- Door opens to the left or right

**Door leaf:**
- Door leaf consisting of individual elements (number of elements acc. to opening width), double-skinned

**Insulation:**
- mineral fibre and gypsum boards

**Sheet thickness:**
- 1.0 mm

**Element weight:**
- approx. 44 kg/m²

**Door leaf thickness:**
- 72 mm

**Door seal:**
- Galvanized profiles, 2 mm thick, on 3 sides
- Guide rollers (lower door guide)
- Weight box with counterweights (behind the run-in side)

**Special equipment:**
- weight box slide-back area

**Surface:**
- Door leaf and seal galvanized
- Special equipment: prime coat (similar to RAL 9002), version in stainless steel, RAL of choice

**Fittings:**
- Tubular guide rails with height-adjustable double twin running gears on ball bearings
- 2 damping cylinders
- 1 radial damper
- 1 recessed handle/1 push handle
- Guide rail cover, insulated
- Guide rail cover in the opening area

**Wicket door:**
- Between two door leaf elements
- Door leaf: double-skinned, rebated on 3 sides, without threshold.
- Opening to both sides possible.
- Clear dimensions of door: 1005 x 2009 mm

**Wicking and door leaf and wicket door:**
- Fire-resistant glass "Promaglas 90", 35 mm thick with steel glass holding strips

**Special equipment:**
- Complete hold-open device consisting of: smoke detectors, number of smoke detectors according to DIBT guidelines, issued 1988,
  - 1 magnetic clamp
  - 1 mains rectifier 220/24 V,
  - 1 emergency release button.
- Acoustic alarm signal
- Complete electric drive (opener)
- Free-wheel function
- Hook lock
- Profile cylinder 40 + 40 mm
- Niche flap
- Recess shutter
- Artifical buffer
- Artifical headroom

**Further qualifications (special equipment):**
- Smoke-proof in acc. with DIN 18095 / EN 1634-3 (except VA)

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<thead>
<tr>
<th>Position</th>
<th>No. of pieces</th>
<th>Item</th>
<th>Unit price €</th>
<th>Total price €</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Ordering dimensions: modular dimensions: ___ mm wide and ___ mm high</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Orderring details: wall and header thickness (concrete ___ mm/masonry ___ mm / autoclaved aerated concrete ___ mm). Type of wall in the slide-back area at the guide rail concrete/masonry thickness ____. Door opens left/right (seen from the fixing side of the door). Headroom ___ mm (min. 210 mm for wall installation) left-hand space ___ mm (clear width + 440 mm or 700 mm - slide-back area) right-hand space ____ mm (min. 310 mm). With/Without wicket door</td>
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</table>

### Text example

Compile and tender according to requirements.
Please refer to technical data below for respective details.
Updated 1st June 2015

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Charge and tender according to requirements.
Please refer to technical data below for respective details.
Updated 1st June 2015

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#### Technical data

**Wicket door:**
- Between two door leaf elements
- Door leaf: double-skinned, rebated on 3 sides, without threshold.
- Opening to both sides possible.
- Clear dimensions of door: 1005 x 2009 mm

**Wicking for door leaf and wicket door:**
- Fire-resistant glass "Promaglas 90", 35 mm thick with steel glass holding strips

**Special equipment:**
- Complete hold-open device consisting of: smoke detectors, number of smoke detectors according to DIBT guidelines, issued 1988,
  - 1 magnetic clamp
  - 1 mains rectifier 220/24 V,
  - 1 emergency release button.
- Acoustic alarm signal
- Complete electric drive (opener)
- Free-wheel function
- Hook lock
- Profile cylinder 40 + 40 mm
- Niche flap
- Recess shutter
- Artifical buffer
- Artifical headroom

**Further qualifications (special equipment):**
- Smoke-proof in acc. with DIN 18095 / EN 1634-3 (except VA)
Fire-resistant sliding steel door
T 90-1-FSA “Teckentrup 72 E”
Optionally with wicket door, optionally with glazing

Structural opening (RRM)
- Height: H 2000 to 6000 mm

Clear width B 1000 to 8500 mm

Wicket door without threshold

Counterweight at the run-in side

Opening to the right shown, opening to the left laterally reversed

Required space = B + 440 [490] + 160 version with drive

Counterweight behind the opened door

Clear width B 1000 to 8500 mm

Wicket door without threshold

Installation of the guide rail:
1. Through bolts M12 for masonry
2. Steel expansion plugs for concrete
3. Weld-on assembly to concreted anchor plates
4. Screw-on assembly on covered steel beam

Dimension N:
- for columns min. 200 mm
- for recess shutter min. 280 mm
- and ceiling cover min. 300 mm

For autoclaved aerated concrete walls
# on B:H > 2:1 = + 175 mm (doubled counterweights)
Fire-resistant sliding steel door

T 90-2-FSA “Teckentrup 72 E”

Optionally with wicket door, optionally with glazing

Text example
Compile and tender according to requirements.
Please refer to technical data below for respective details.
Updated 1st June 2015

Technical data

Building authority approval:
Fire-proof sliding steel door T 90-2-FSA, tested in accordance with DIN 4102-5/EN 1634-1. Double-leaf door opening to the left. Galvanized door leaf, 72 mm thick (element design). With 3-sided door seal, galvanized. Door suspension consisting of tubular guide rail with automatic closing of the door due to counterweights in the protective box. „Teckentrup 72 E“ (approval no. Z-6.20-2103) or equivalent.

Ordering details: wall and header thickness (concrete ____ mm/masonry ____ mm / autoclaved aerated concrete ____ mm), Type of wall in the slide-back area at the guide rail concrete/masonry thickness _____. Door opens left/right (seen from the fixing side of the door). Headroom ____ mm (min. 210 mm for wall installation) left-hand space ____ mm (clear width/2 + 650 mm - slide-back area) right-hand space ____ mm (min. 310 mm). With/Without wicket door

Wicket door:
Between two door leaf elements
• Door leaf: double-skinned, rebated on 3 sides, without threshold.
• Opening to both sides possible.
Clear dimensions of door: 1005 x 2009 mm (755 x 1800 mm)
• Insulation: mineral fibre and gypsum boards
• Sheet thickness: 1.0 mm
• Door leaf thickness: 72 mm
• Fitting: 2 three-piece 3D-hinges, mortice lock with latch lever as per DIN 18250, prepared for profile cylinder, special handle set, black, slide rail door closer according to DIN EN 1154.
• Special equipment: profile cylinder 45 + 30, panic lock, optionally two wicket doors.

Glazing for door leaf and wicket door:
Fire-resistant glass “Promaglas 90”, 35 mm thick with steel glass holding strips

Special equipment:
• Prime coat (similar to RAL 9002)
• Complete hold-open device consisting of:
- smoke detectors, number of smoke detectors according to DIBt guidelines, issued 1988.
- 2 magnetic clamps
- 1 mains rectifier 220/24 V, 1 emergency release button.
- Acoustic alarm signal
- Complete electric drive (opener)
- Free-wheel function
- Hook lock
- Profile cylinder 40 + 40 mm
- Niche flap
- Recess shutter
- Artificial buffer
- Artificial headroom

Further qualifications (special equipment):
• Smoke-proof as per DIN 18095 / EN 1634-3 (without wicket door/ max. 30.35 m²/except VA)
Fire-resistant sliding steel door
T 90-2-FSA “Teckentrup 72 E“
Optionally with wicket door, optionally with glazing

Installation of the guide rail:
1. Through bolts M12 for masonry
2. Steel expansion plugs for concrete
3. Weld-on assembly to concreted anchor plates
4. Screw-on assembly on covered steel beam

Dimension N:
- for columns min. 200 mm
- for recess shutter min. 280 mm
- and ceiling cover min. 300 mm
[ ] For autoclaved aerated concrete walls
Fire-resistant sectional door
T 30-FSA „Teckentrup S“

Text example
Compile and tender according to requirements.
Please refer to technical data below for respective details.
Updated 1st June 2015

Technical data
Building authority:
Fire-resistant sectional steel door T30-FSA “Teckentrup S”
Approval no.: Z-6.20-2195, tested as per DIN 4102
Installation in:
Walls made of:
- Masonry min. 175 mm *
- Concrete min. 140 mm *
- Autoclaved aerated concrete min. 200 mm and steel concrete lintel *
- Reinforced autoclaved aerated concrete slabs min. 175 mm and steel concrete lintel *
* according to static requirements

Approved dimensions:
Modular dimensions:
width: 1000 – 5000 mm
height: 2000 – 3630 mm

Door leaf:
Door leaf consisting of horizontally arranged, overlapping panel elements, interconnected with hinges. Number of panel elements according to the door height. Double-skinned, sheet thickness 0.4 mm. Insulation: mineral wool bonded over the entire surface

Leaf thickness:
40 mm

Frame:
The supporting structure consists of profiled, galvanized steel plate, galvanized guide rail as a C-shaped profile, frame cover made of smooth, galvanized steel plate. The horizontal wall smoke seal is located at the lower edge of the header. With a normal fitting, the door is installed in horizontally arranged guide rails on the ceiling (observe static values of the ceiling construction). With a vertical fitting, the frame for the slide-back area is located above the clear opening.

Weight compensation:
Via torsion spring shaft. Alternatively, non-counterbalanced system with winding shaft and fire-protection drive.

Surface:
Stucco design outside and inside (alternatively, woodgrain on the outside). Prime coated door leaf (outside and inside RAL 9002) If desired, RAL prime coating of your choice, limited selection (see price sheet). Galvanized frame, torsion springs with basic coat of paint.

Fitting:
Rollers running on ball bearings to guide the panel elements, torsion (winding) shaft on ball bearings, cable pulleys on ball bearings for rear drive, damping springs at the top, one suspension cable on the right and left-hand side, handles on both sides for manually operated door, hold-open device with smoke detectors

Types of fitting:
N: normal fitting **
HL: high lift guide rail fitting
VL: vertical fitting **
** (for required space see installation drawings)

Special equipment:
Woodgrain outer structure, frame panelling prime coated in RAL 9002. Window with F30 glazing, max. window size 820 x 335 mm, max. 2 windows per panel, max. glazing surface ≤ 2 m² per door (lateral width min. 115 mm) with steel glass-holding strips.

Drives:
Door counterbalanced with torsion spring shaft:
a) Spring shaft equipped with eddy current brake and immobilization brake. Using the eddy current brake it is possible to adjust the door speed range from 0.08 to 0.2 m/sec.. The immobilization brake is used to hold open the door in combination with a power supply unit and smoke detectors. Smoke detectors according to guidelines for hold-open devices. Handles are used to open the door (max. door height 2125 mm).
b) The same as a) but with additional chain host to open the door
c) The same as a) but a motor with spur gear unit functions as the opener 230V, IP 44

Control:
Counterbalanced door:
a manually operated door is held open via the immobilization brake. Door release via the close button, via the smoke detector or during a power cut ensures that the door closes at a regulated speed and in a counterbalanced manner. An alarm sounds at the same time. As a drive opener, the door can be opened and closed in deadman mode.

Safety standard and performance classes:
- Tested in acc. with safety standard EN 12604
- Resistance to wind load tested in acc. with EN 12424 class 2 (max. 450 N/m² wind load)
- According to the certification fire sectional doors are manufactured for Z-3 operations daily

Subject to technical changes.

205
Fire-resistant sectional door
T 30-FSA „Teckentrup S”

Standard: standard fitting front drive

- Minimum installation dimensions are specified for the maximum door size.
- Smaller installation dimensions might be possible for smaller door sizes.

Minimum installation dimensions are specified for the maximum door size.
Smaller installation dimensions might be possible for smaller door sizes.

- Normal fitting rear drive

- Vertical fitting front drive

- High lift fitting rear drive

- Console

- Masonry

- Autoclaved aerated concrete

- Smaller installation dimensions might be possible for special constructions.
- Special constructions require separate technical clarification.

With standard fitting and minimum headroom, the door leaf stands approx. 50 mm in the opening when the door is open.

- 

- Statics of the ceiling have to be adjusted to the door weight
- Statics of the header have to be adjusted to the door weight
- Only in connection with a reinforced concrete lintel in accordance with static requirements.

Subject to technical changes.
Fire-resistant steel vertical lift gate
T 90-1-FSA „Teckentrup HT-E“

Text example
Compile and tender according to requirements.
Please refer to technical data below for respective details.
Updated 1st June 2015

Technical data
Building authority
approval:
Fire-resistant steel vertical lift gate
T 90-1-FSA “Teckentrup HT-E”
Z-6.20-2185
tested as per DIN 4102-5/EN 1634-1

Installation in:
walls made of:
- Masonry  min. 240 mm
- Concrete  min. 140 mm
- Autoclaved aerated concrete  to DIN 4165  min. 175 mm
- for reinforced  min. 200 mm

Approved dimensions:
width: 1000 – 3700 mm
height: 2000 – 2950 mm

Opening direction:
gate opens upwards

Door leaf:
double-skinned
reinforcement:
U-shaped steel
insulation:
mineral fibre and gypsum boards
sheet thickness: 1 mm

Door leaf thickness:
62 mm

Door seal:
- Galvanized seal profiles, 3 mm thick, on 3 sides
- Lateral guide rails with element guide rollers

Counterweight box with counterweights (located on the right and left-hand side)

Surface:
galvanized door leaf and seal

Fittings:
- 2 double wire cables with suspension and safety back-up cable
double twin running gears
- 2 damping cylinders
- 1 radial damper
- 2 recessed handles

According to approval, fire protection lifting doors are suitable for 2-3 actuations per day.

Special equipment:
- Complete hold-open device consisting of:
  - ____ smoke detectors,
  - 1 magnetic clamp, hold-open brake
  - 1 power inverter 220/24 V
  - 1 release key,
  Number of smoke detectors according to DIBt guidelines, issued 1988.
  - Acoustic alarm signal
  - Electric drive as an opener in deadman mode

Position | No. of pieces | Item                                                                 | Unit price € | Total price € |
---|---|---|---|---|
Fire-resistant steel vertical lift gate
T 90-1-FSA „Teckentrup HT-E“

Subject to technical changes.