

Drainage technology - floor drains

Drainage technology - drainage channels

Drainage technology - parking areas

Drainage technology - landscaping

Manhole covers & pipe leadthroughs

Crash guards & edge protection

## **Doors & windows**

Control cabinets

Special commissions



**WIEDEMANN-TECHNIK**

Quality in stainless steel



## WIEDEMANN-TECHNIK

Perfection in stainless steel since 1945

At Wiedemann-Technik, we make use of the excellent technical properties of stainless steel to your advantage. Made in corrosion-resistant material and manufactured according to DIN EN ISO 9001:2008, our products are extremely durable. The smooth and hard surfaces repel dirt and bacteria, so that they can be easily cleaned for proper hygiene. Whether channels or floor drains of different designs and dimensions, fire doors with or without glass sections, or custom-built worktables – we have the perfect solution

for you, offering exceptional quality at an affordable price.

To ensure these high standards, both our products and our manufacturing processes are continuously monitored:

- Certification according to DIN EN ISO 9001:2008
- Specialist manufacturer certified in accordance with article 19 I, German Water Act WHG
- Welding specialist according to DIN 18800-7D/ DIN 2303



- External quality control of the floor drains by TÜV Rheinland LGA in accordance with EN 1253
- External quality control of fire doors by MPA Braunschweig in accordance with DIN 4102

Our specialist advisers plan and create the optimum product, working closely with you, and taking your wishes and needs on board – competently, precisely, and always focused on the best solution.



## Doors & windows

For access and vision

Doors and windows from Wiedemann-Technik have a long service life, are resistant to corrosion, and virtually maintenance-free. Manufactured entirely from stainless steel, our doors and windows meet all relevant DIN and EN standards.

Due to their high resistance to aggressive atmospheres, they are particularly suitable for use in chemical and pharmaceutical plants, and in the food processing industry. Stainless steel installations and equipment are the ideal solution in all areas where high hygiene standards are necessary, such as the food and beverage industry, the pharmaceutical sector, meat and fish processing and catering.

Doors and windows from Wiedemann-Technik are widely used for cold storage and freezer rooms and are also ideal solutions for escape routes with special requirements as regards fire safety and anti-burglary

protection. We also offer options with airtight seals up to class 4 and sound insulation up to 45 dB.

Frame profile elements made in cold rolled stainless steel cater for virtually any design when it comes to doors, windows and wall panelling.

As your experts for tailor-made room closures that conform to DIN, EN and safety standards, we can offer you:

- T30, T90 fire doors according to DIN 4102, EN 1634
- Smoke protection conforming to DIN 18095
- Anti-burglary protection conforming to EN 1627 up to RC 4
- DIN 18650 automation
- Escape route and safety doors according to EN 179, EN 1125

*T90 fire doors for road tunnels*





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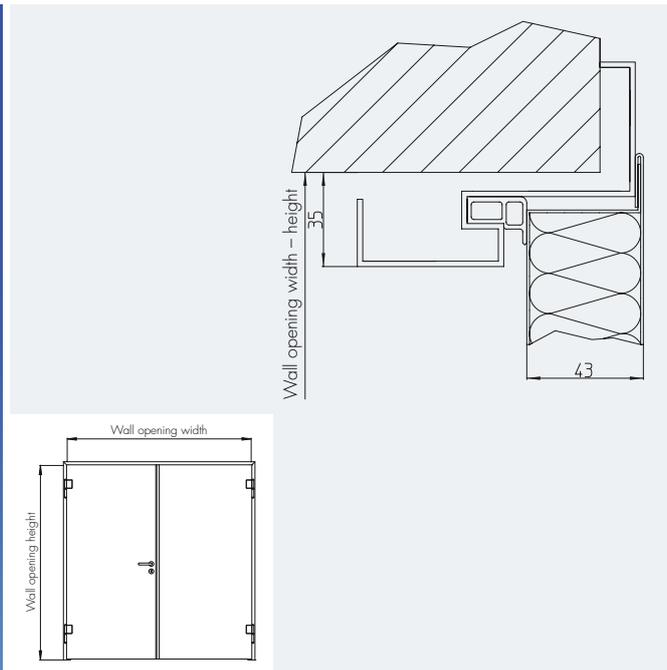
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## Hinged service room doors FT1 / FT2



### Wall opening (width x height)

### Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm

from: 500 x 500 mm  
to: 2750 x 2750 mm

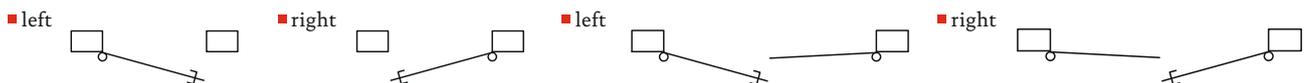
Other dimensions available on request.

### Surface

- Polished, grain size 240
- Stripe finish
- Circular brush finish

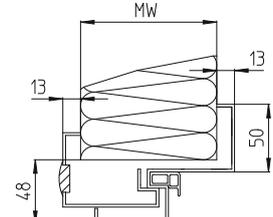
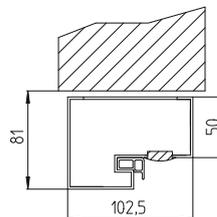
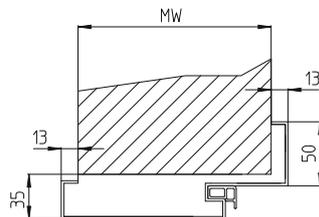
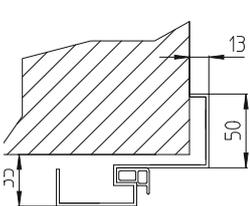
Other finishes available on request.

### Opening direction



### Frames

- Corner frame (EZD) <sup>3)</sup>
- Surrounding frame (UZD) <sup>3)</sup>
- Block frame (BZD) <sup>3)</sup>
- Clamping frame (KLZ) <sup>4)</sup>



### Description for use in tenders

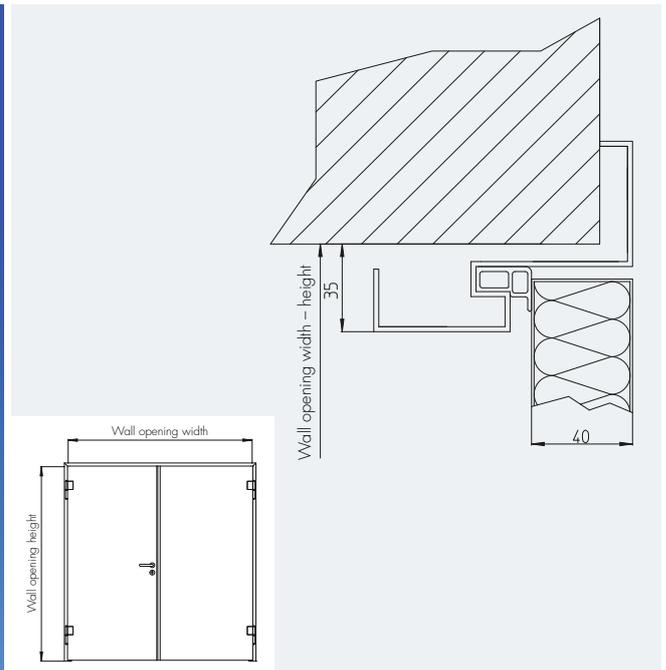
Hinged service room door, model FT1 / FT2; with corner frame made in sheet steel, thickness 2.0 mm; with seal on 3 sides; door leaf 43 mm thick, thin folded on 3 sides, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; suitable for retrofitting with door-closing mechanism; flat, with rigid PUR HD foam insulation, CFC-free; DIN 18250 class 4 lock with stainless steel face plate, profile cylinder hole; DIN 18273 stainless steel handle set; 2 stainless steel construction hinges (180 mm) with axial ball bearings per leaf, for minimum friction.

### Material

- 1.4301 (AISI 304)
- 1.4571 (AISI 316 Ti) <sup>1)</sup>

<sup>1)</sup> hinges 1.4301 <sup>2)</sup> not suitable for outside doors <sup>3)</sup> Installation in masonry and concrete walls <sup>4)</sup> PU element installation

## Hinged service room doors ST41 / ST42



### Wall opening (width x height)

### Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm

from: 500 x 500 mm  
to: 2750 x 2750 mm

Other dimensions available on request.

### Surface

■ Polished, grain size 240

■ Stripe finish

■ Circular brush finish

Other finishes available on request.

### Opening direction

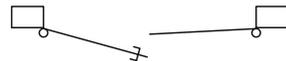
■ left



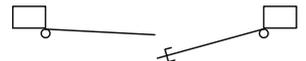
■ right



■ left



■ right



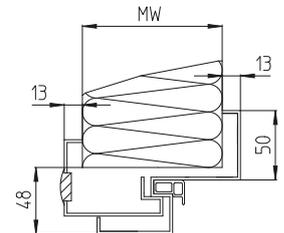
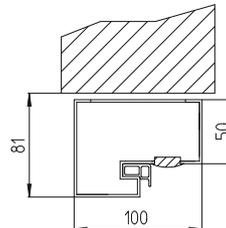
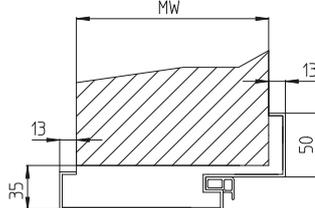
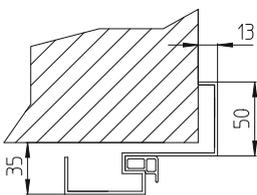
### Frames

■ Corner frame (EZD) <sup>3)</sup>

■ Surrounding frame (UZD) <sup>3)</sup>

■ Block frame (BZD) <sup>3)</sup>

■ Clamping frame (KLZ) <sup>4)</sup>



### Description for use in tenders

Hinged service room door, model ST41 / ST42; with corner frame made in sheet steel, thickness 2.0 mm; with seal on 3 sides; door leaf 40 mm thick, flush edge, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; suitable for retrofitting with door-closing mechanism; flat, with rigid PUR HD foam insulation, CFC-free; DIN 18250 class 4 lock with stainless steel face plate, profile cylinder hole; DIN 18273 stainless steel handle set; 2 stainless steel construction hinges (180 mm) with axial ball bearings per leaf, for minimum friction.

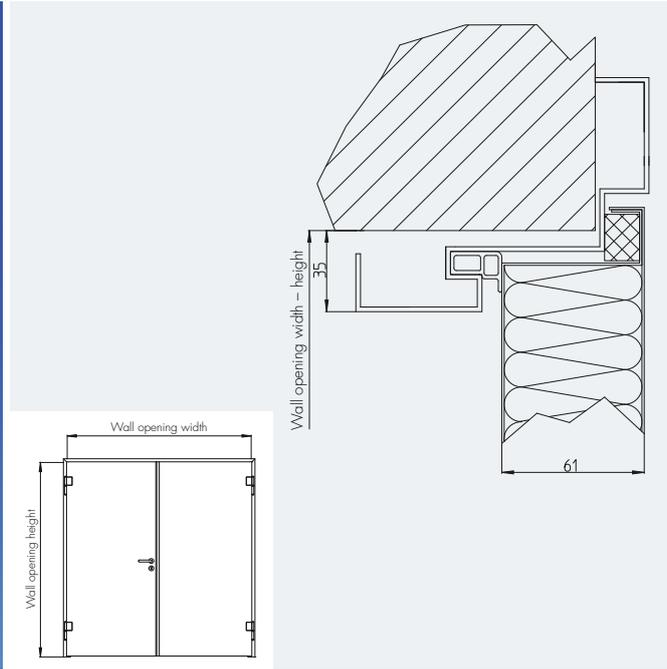
### Material

■ 1.4301 (AISI 304)

■ 1.4571 (AISI 316 Ti) <sup>1)</sup>



## Hinged service room doors ST61 / ST62



### Wall opening (width x height)

### Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm

from: 500 x 500 mm  
to: 2750 x 2750 mm

Other dimensions available on request.

### Surface

■ Polished, grain size 240

■ Stripe finish

■ Circular brush finish

Other finishes available on request.

### Opening direction

■ left



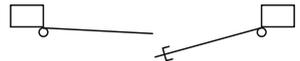
■ right



■ left



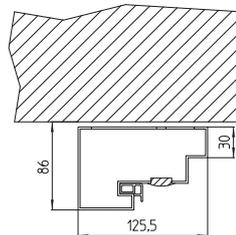
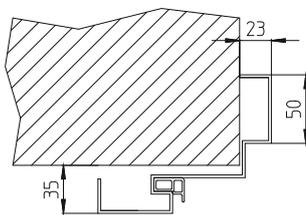
■ right



### Frames

■ Corner frame (EZD) <sup>3)</sup>

■ Block frame (BZD) <sup>3)</sup>



### Description for use in tenders

Hinged service room door, model ST61 / ST62; with corner frame made in sheet steel, thickness 2.0 mm; with seal on 3 sides; with sealing door sill, protruding by 20 mm; door leaf 61 mm thick, folded on 4 sides, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; suitable for retrofitting with door-closing mechanism; flat, with rigid PUR HD foam insulation, CFC-free; DIN 18250 class 4 lock with stainless steel face plate, profile cylinder hole; DIN 18273 stainless steel handle set; 2 stainless steel construction hinges (180 mm) with axial ball bearings per leaf, for minimum friction.

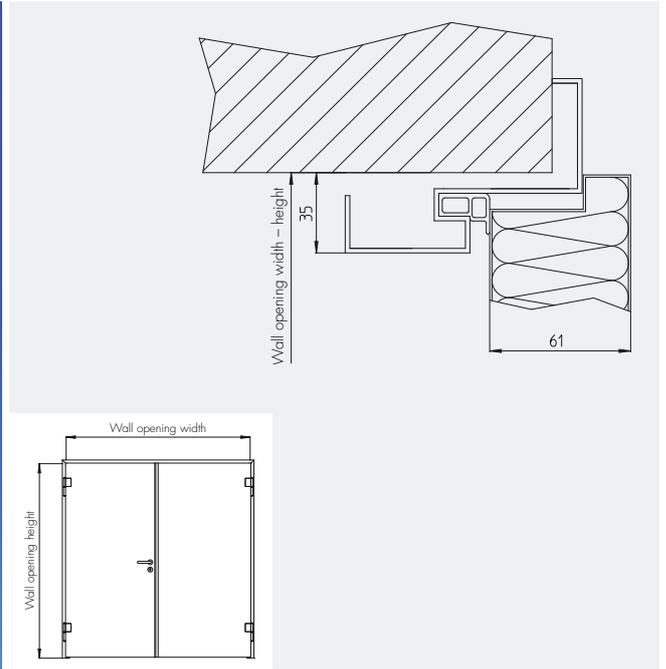
### Material

■ 1.4301 (AISI 304)

■ 1.4571 (AISI 316 Ti) <sup>1)</sup>

<sup>1)</sup> hinges 1.4301 <sup>2)</sup> not suitable for outside doors <sup>3)</sup> Installation in masonry and concrete walls <sup>4)</sup> PU element installation

# Hinged service room doors MFT1 / MFT2



## Wall opening (width x height)

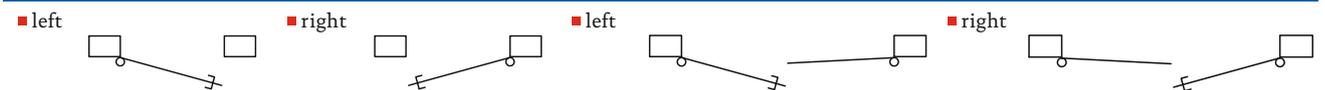
## Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm from: 500 x 500 mm to: 2750 x 2750 mm Other dimensions available on request.

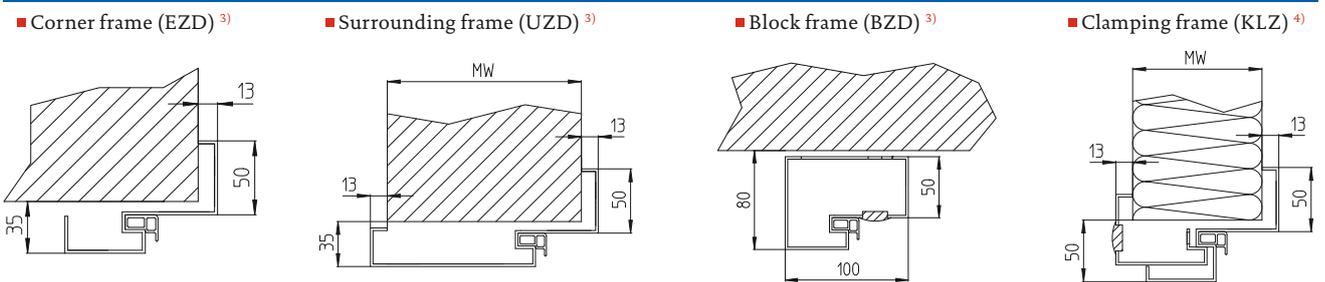
## Surface

- Polished, grain size 240
  - Stripe finish
  - Circular brush finish
- Other finishes available on request.

## Opening direction



## Frames



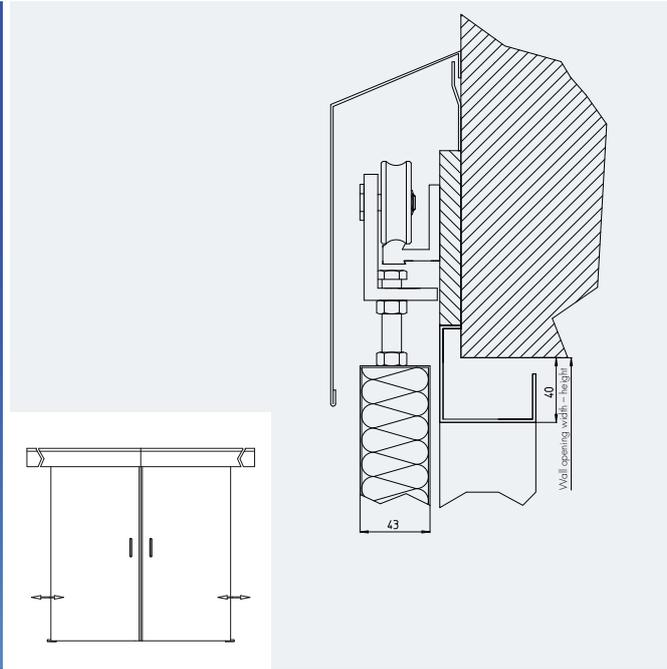
## Description for use in tenders

Hinged service room door, model MFT1 / MFT2; with corner frame made in sheet steel, thickness 2.0 mm; with seal on 3 sides; door leaf 61 mm thick, thick folded on 3 sides, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; suitable for retrofitting with door-closing mechanism; flat, with rigid PUR HD foam insulation, CFC-free; DIN 18250 class 4 lock with stainless steel face plate, profile cylinder hole; DIN 18273 stainless steel handle set; 2 3D adjustable stainless steel construction hinges (160 mm) with axial ball bearings per leaf, for minimum friction.

## Material

- 1.4301 (AISI 304)
- 1.4571 (AISI 316 Ti)

## Sliding service room doors BST41 / BST42



### Wall opening (width x height)

### Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm

from: 800 x 1800 mm  
to: 2750 x 2750 mm

Other dimensions available on request.

### Surface

- Polished, grain size 240
- Stripe finish
- Circular brush finish

Other finishes available on request.

### Opening direction

- left

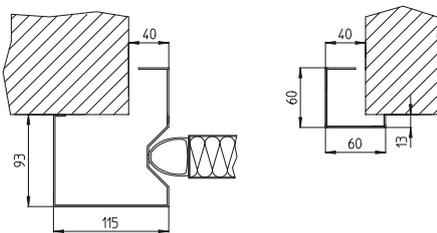


- right

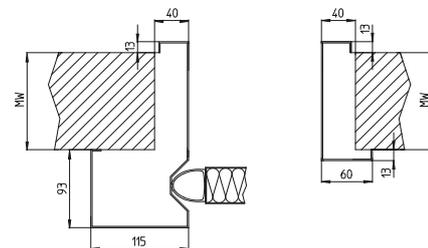


### Frames

- Corner frame (EZ) <sup>3)</sup>



- Surrounding frame (UZ) <sup>3)</sup>



### Description for use in tenders

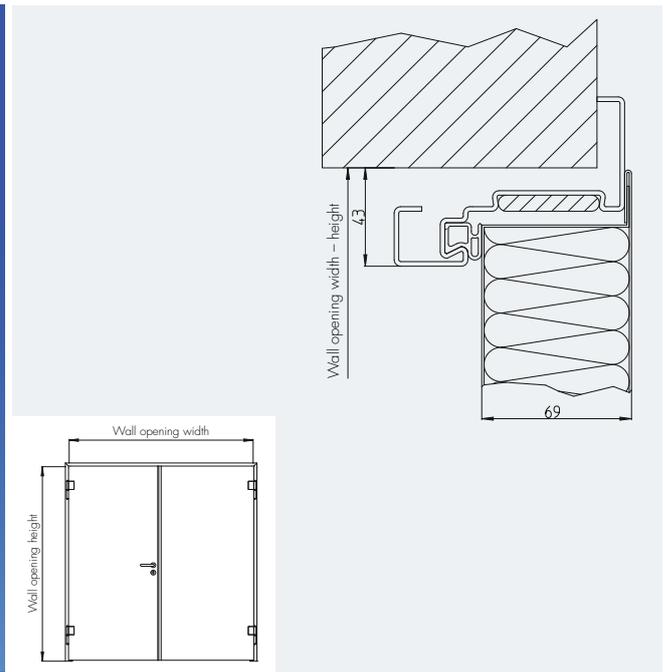
Sliding service room door, model BST41 / BST42, with corner frame made in sheet steel, thickness 2.0 mm; door leaf 43 mm thick, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; integrated guide groove, flat; with rigid PUR HD foam insulation, CFC-free; aluminium runner rail with stainless steel cover and integrated stops; with 2 double twin track trolleys per wing, equipped with roller bearings; for extra smooth running.

### Material

- 1.4301 (AISI 304)
- 1.4571 (AISI 316 Ti) <sup>1)</sup>

<sup>1)</sup> hinges 1.4301 <sup>2)</sup> not suitable for outside doors <sup>3)</sup> Installation in masonry and concrete walls <sup>4)</sup> PU element installation

# Hinged fire doors T301 / T302



## Wall opening (width x height)

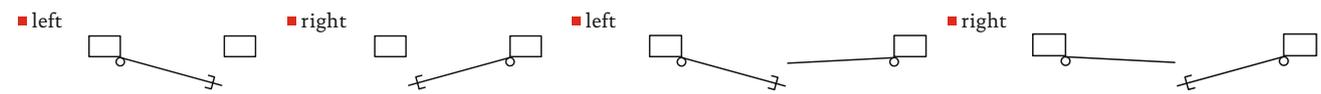
## Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm from: 500 x 500 mm to: 2625 x 2750 mm Other dimensions available on request.

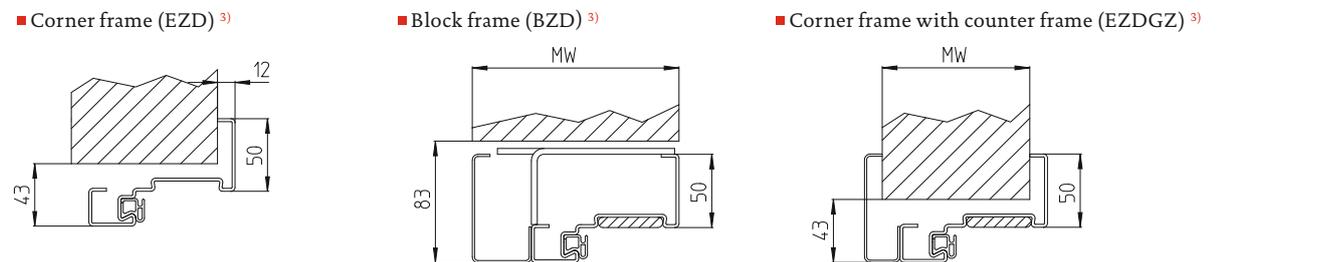
## Surface

- Polished, grain size 240
  - Stripe finish
  - Circular brush finish
- Other finishes available on request.

## Opening direction



## Frames



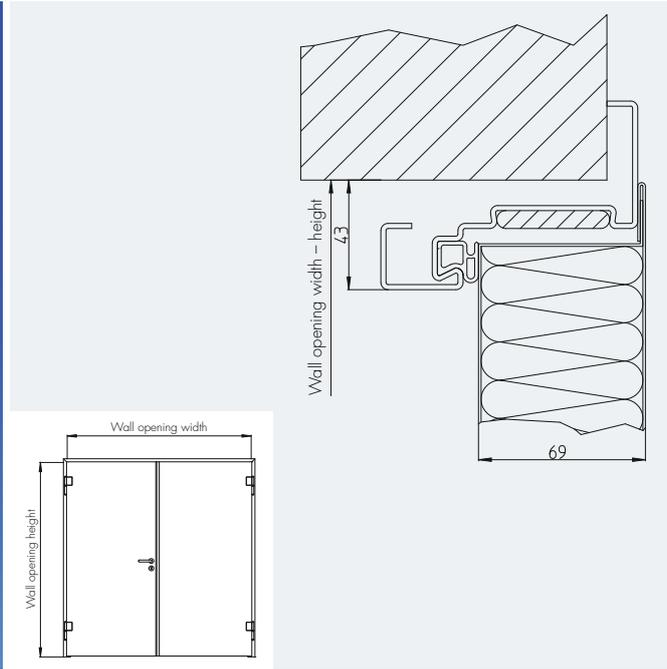
## Description for use in tenders

Hinged fire-retardant door, model T301 / T302, System Schröders; fire-resistant for min 30 minutes; with corner frame made in sheet steel, thickness 2.0 mm; with seal on 3 sides; door leaf 69 mm thick, thin folded on 3 sides, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; with door-closing mechanism; rigid mineral fibre fire insulation; DIN 18250 class 4 lock with flush stainless steel face plate, profile cylinder hole; DIN 18273 stainless steel handle set; 2 stainless steel construction hinges (200 mm) with axial ball bearings per leaf, for minimum friction. Optional: burglary protection up to RC 4.

## Material

- 1.4301 (AISI 304)
- 1.4571 (AISI 316 Ti)

## Hinged fire doors T901 / T902



### Wall opening (width x height)

### Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm

from: 500 x 500 mm  
to: 2625 x 2750 mm

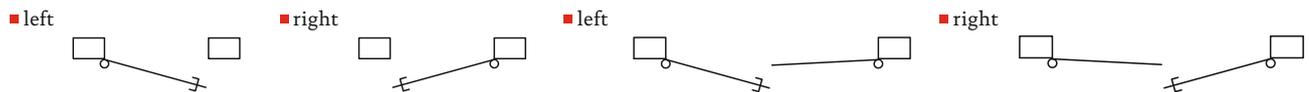
Other dimensions available on request.

### Surface

- Polished, grain size 240
- Stripe finish
- Circular brush finish

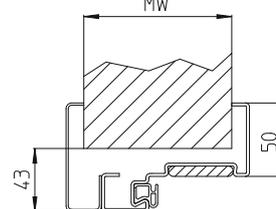
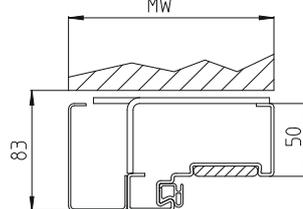
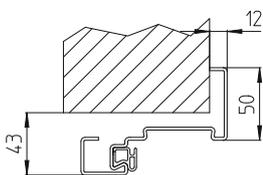
Other finishes available on request.

### Opening direction



### Frames

- Corner frame (EZD) <sup>3)</sup>
- Block frame (BZD) <sup>3)</sup>
- Corner frame with counter frame (EZDGZ) <sup>3)</sup>



### Description for use in tenders

Hinged fire-proof door, model T901 / T902, System Schröders; fire resistant for min 90 minutes; with corner frame made in sheet steel, thickness 2.0 mm; with seal on 3 sides; door leaf 69 mm thick, thin folded on 3 sides, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; with door-closing mechanism; with mineral fibreboard fire insulation; DIN 18250 class 4 lock with flush stainless steel face plate, profile cylinder hole; DIN 18273 stainless steel handle set; 2 stainless steel construction hinges (200 mm) with axial ball bearings per leaf, for minimum friction. Optional: burglary protection up to RC 4.

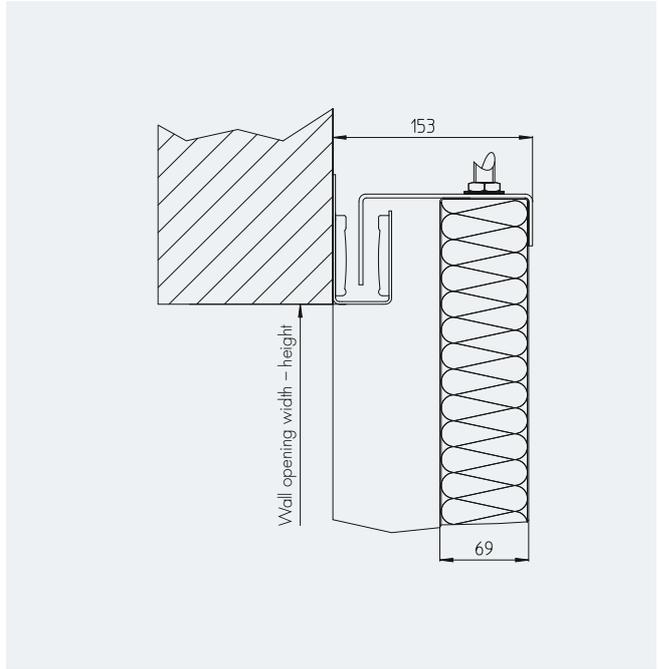
### Material

- 1.4301 (AISI 304)
- 1.4571 (AISI 316 Ti) <sup>1)</sup>

<sup>1)</sup> hinges 1.4301 <sup>2)</sup> not suitable for outside doors <sup>3)</sup> Installation in masonry and concrete walls <sup>4)</sup> PU element installation

# Sliding fire doors FST301

At the moment  
not available!



**Wall opening (width x height)**

**Standard dimensions**

\_\_\_\_\_ x \_\_\_\_\_ mm      from: 1000 x 2000 mm      to: 5000 x 2750 mm      Other dimensions available on request.

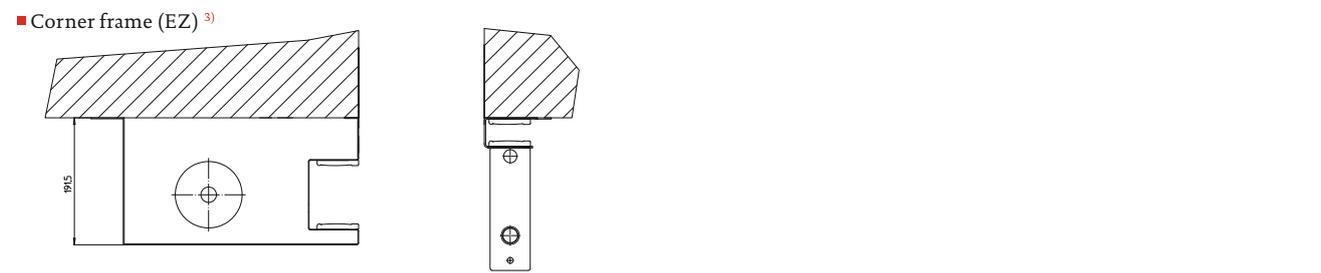
## Surface

- Polished, grain size 240
  - Stripe finish
  - Circular brush finish
- Other finishes available on request.

## Opening direction



## Frames



## Description for use in tenders

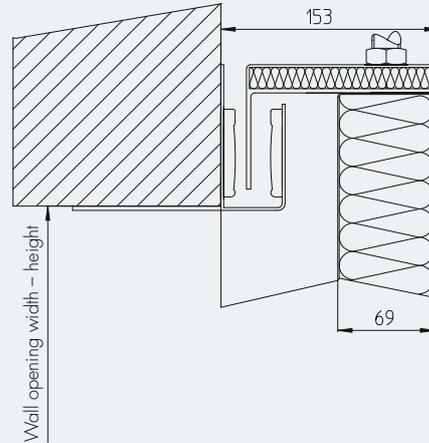
Single-leaf, fire-retardant sliding door, made in stainless steel, model FST301, Schröders system, fire-resistant for 30 minutes, general approval for use in construction projects no. Z-6.20-1882 with compliance mark, door leaf 69 mm thick, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; counterweight closing mechanism; rigid mineral fibreboard fire insulation; stainless steel recess pocket and handle, tubular runner rail with concealed double twin track trolleys for extra smooth running.

## Material

- 1.4301 (AISI 304)
- 1.4571 (AISI 316 Ti) <sup>1)</sup>

## Sliding fire doors FST901

**At the moment  
not available!**



**Wall opening (width x height)**

**Standard dimensions**

\_\_\_\_\_ x \_\_\_\_\_ mm

from: 1000 x 2000 mm

to: 5000 x 2750 mm

Other dimensions available on request.

### Surface

■ Polished, grain size 240

■ Stripe finish

■ Circular brush finish

Other finishes available on request.

### Opening direction

■ left

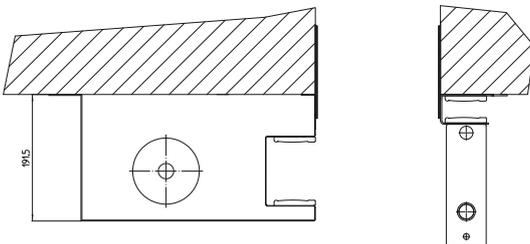


■ right



### Frames

■ Corner frame (EZ) <sup>3)</sup>



### Description for use in tenders

Single-leaf, fire-proof sliding door, made in stainless steel, model FST901, System Schröders, fire-resistant for 90 minutes, general approval for use in construction projects no. Z-6.20-1883 with compliance mark, door leaf 69 mm thick, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; counterweight closing mechanism; rigid mineral fibreboard fire insulation; stainless steel recess pocket and handle, tubular runner rail with concealed double twin track trolleys for extra smooth running.

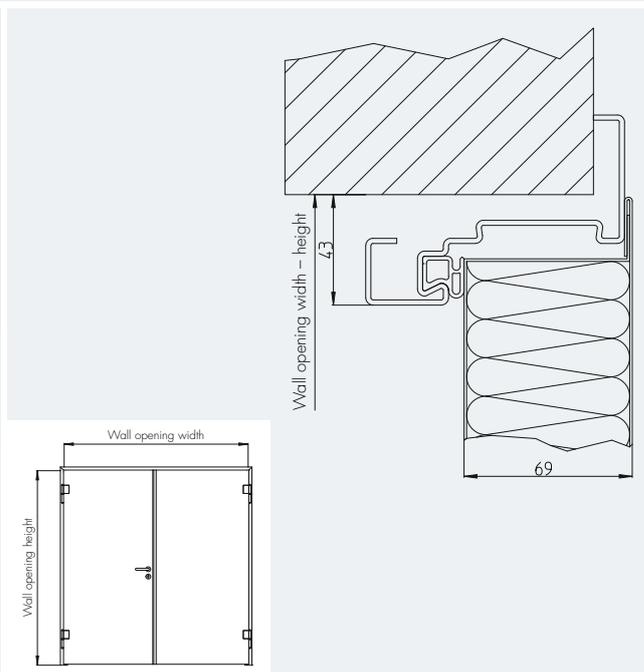
### Material

■ 1.4301 (AISI 304)

■ 1.4571 (AISI 316 Ti) <sup>1)</sup>

<sup>1)</sup> hinges 1.4301 <sup>2)</sup> not suitable for outside doors <sup>3)</sup> Installation in masonry and concrete walls <sup>4)</sup> PU element installation

# Hinged smoke protection doors RSN1



## Wall opening (width x height)

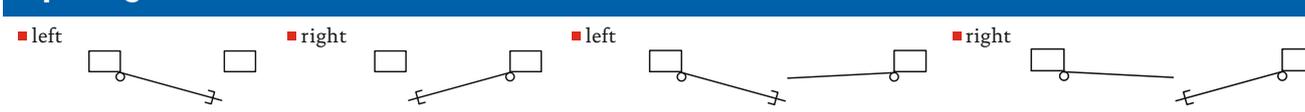
## Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm from: 500 x 500 mm to: 2750 x 2750 mm Other dimensions available on request.

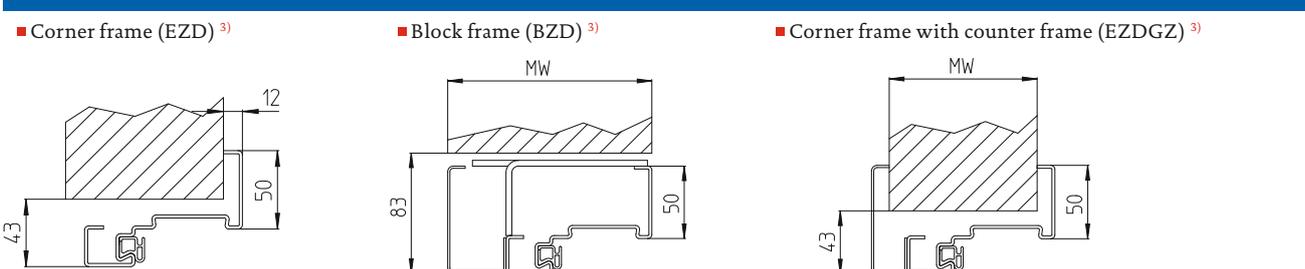
## Surface

- Polished, grain size 240
  - Stripe finish
  - Circular brush finish
- Other finishes available on request.

## Opening direction



## Frames



## Description for use in tenders

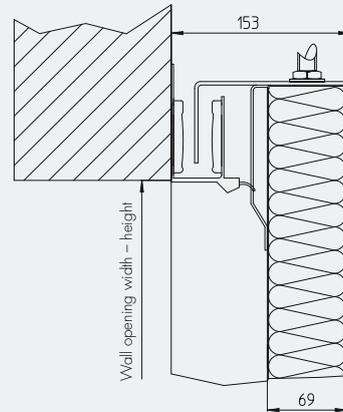
Hinged smoke protection door, model RSN1 / RSN2, System Schröders; smoke-proof according to DIN 18095; general certificate for use in construction projects no. P-BWU03-1 17.67.15 MPA Stuttgart; with compliance mark; corner frame made in sheet steel, thickness 2.0 mm; with seal on 3 sides; door leaf 69 mm thick, thin folded on 3 sides, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; with door-closing mechanism; rigid fibreboard insulation; DIN 18250 class 4 lock with flush stainless steel face plate, profile cylinder hole; DIN 18273 stainless steel handle set; 2 stainless steel construction hinges (200 mm) with axial ball bearings per leaf, for minimum friction.

## Material

- 1.4301 (AISI 304)
- 1.4571 (AISI 316 Ti) <sup>1)</sup>

## Sliding smoke protection doors RST1

**At the moment  
not available!**



**Wall opening (width x height)**

**Standard dimensions**

from: 1000 x 2000 mm

to: 5000 x 2750 mm

Other dimensions available on request.

### Surface

■ Polished, grain size 240

■ Stripe finish

■ Circular brush finish

Other finishes available on request.

### Opening direction

■ left

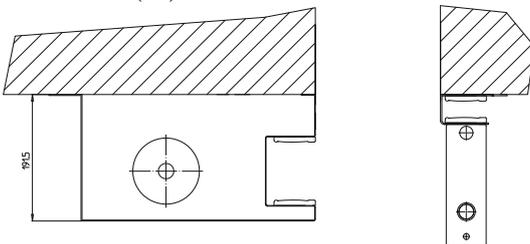


■ right



### Frames

■ Corner frame (EZ) <sup>3)</sup>



### Description for use in tenders

Single-leaf, smoke protection sliding door, model RST1, System Schröders, smoke-proof according to DIN 18095; general certificate for use in construction projects no. P-BWU03-I 17.67.26 MPA Stuttgart; with compliance mark; door leaf 69 mm thick, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; counterweight closing mechanism; rigid fibreboard insulation; stainless steel recess pocket and handle, tubular runner rail with concealed double twin track trolleys for extra smooth running.

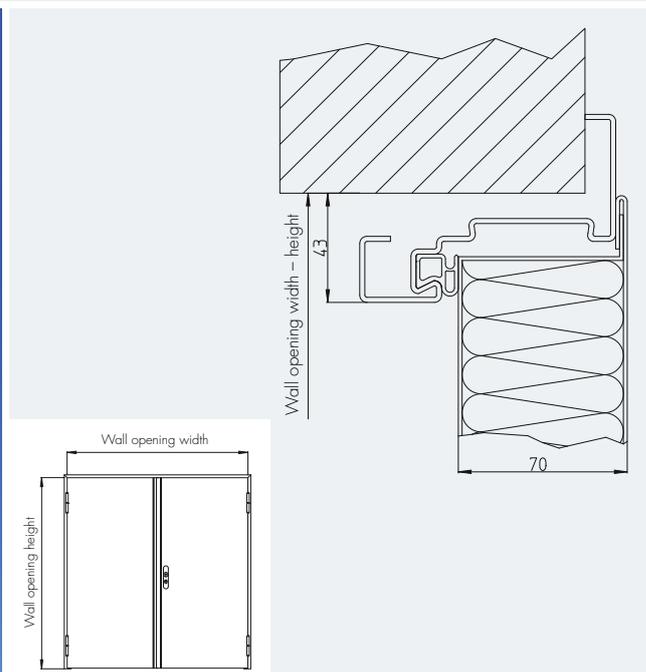
### Material

■ 1.4301 (AISI 304)

■ 1.4571 (AISI 316 Ti) <sup>1)</sup>

<sup>1)</sup> hinges 1.4301 <sup>2)</sup> not suitable for outside doors <sup>3)</sup> Installation in masonry and concrete walls <sup>4)</sup> PU element installation

# Hinged anti-burglary doors ESN1



## Wall opening (width x height)

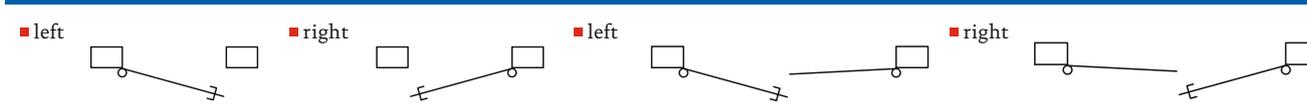
## Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm  
 from: 625 x 500 mm  
 to: 2750 x 2750 mm  
 Other dimensions available on request.

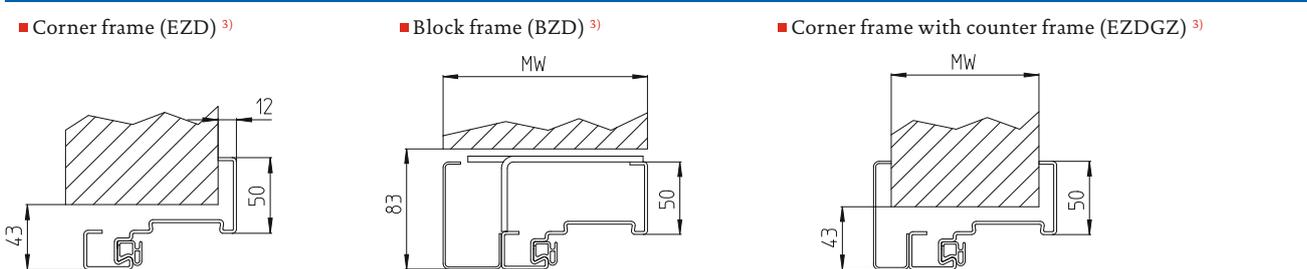
## Surface

- Polished, grain size 240
  - Stripe finish
  - Circular brush finish
- Other finishes available on request.

## Opening direction



## Frames



## Description for use in tenders

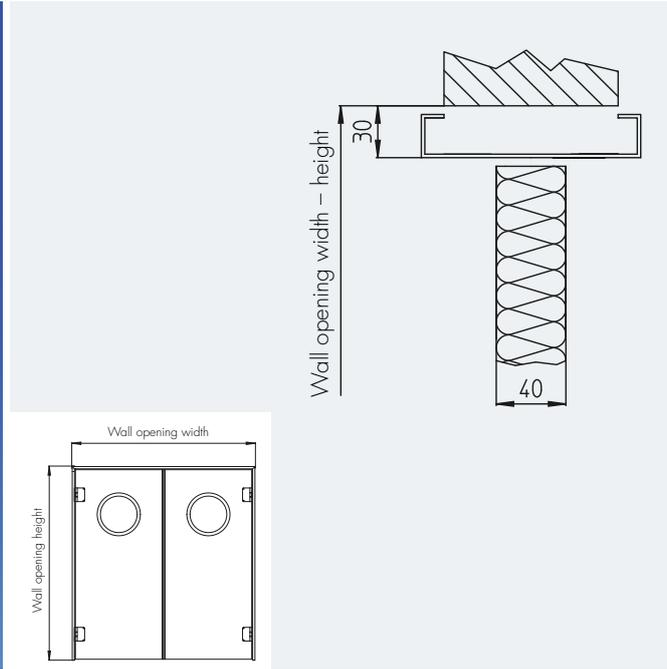
Hinged anti-burglary door, model ESN1 / ESN2; with corner frame made in sheet steel, thickness 2.0 mm; with seal on 3 sides; burglary resistance class RC1 - RC4 according to EN 1627; door leaf 70 mm thick, thin folded on 3 sides, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.5 mm; with internal stainless steel stiffening profiles; suitable for retrofitting with door-closing mechanisms; rigid PUR HD foam insulation; DIN 18250 class 4 lock with stainless steel face plate, profile cylinder hole; DIN 18273 ES1 - ES3 stainless steel handle set; 2 stainless steel construction hinges (200 mm) with axial ball bearings per leaf, for minimum friction. Optional: can be equipped to serve as fire safety door.

## Material

- 1.4301 (AISI 304)
- 1.4571 (AISI 316 Ti) <sup>1)</sup>



## Swing doors PT1 / PT2



Wall opening (width x height)

Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm

from: 800 x 1800 mm  
to: 2600 x 2600 mm

Other dimensions available on request.

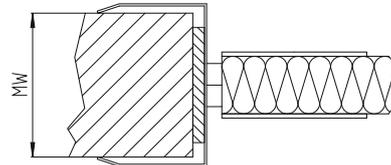
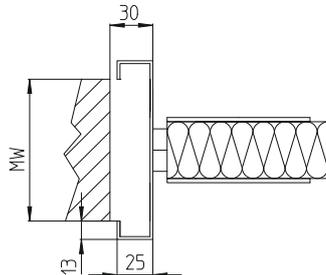
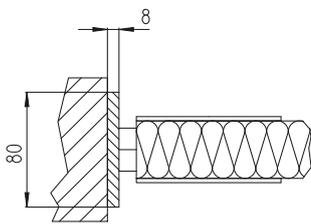
### Surface

- Polished
- Stripe finish
- Circular brush finish

Other finishes available on request.

### Frames

- Flush frame (FL) <sup>3)</sup>
- Surrounding frame (UZ) <sup>3)</sup>
- Cut-out frame (KLR) <sup>4)</sup>



### Description for use in tenders

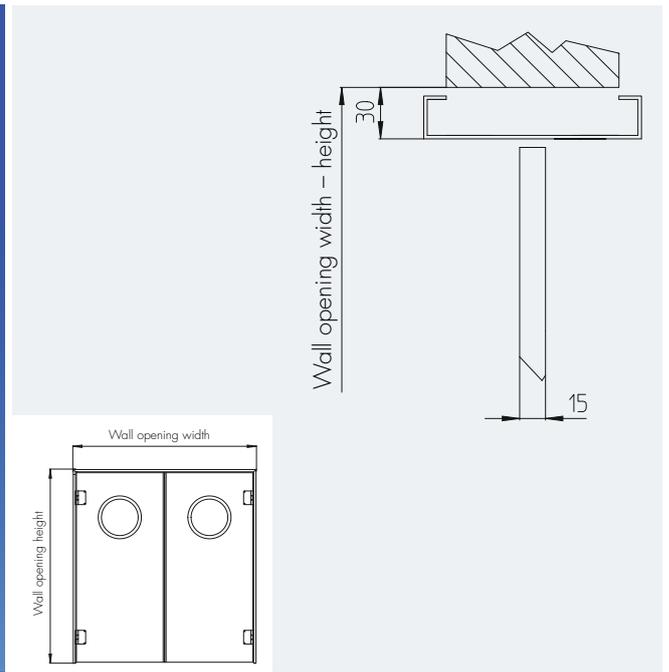
Service room swing door PT1 / PT2, leaf 40 mm thick, fully sealed, double-wall construction in machine-straightened sheet steel, thickness 1.0 mm; with internal stainless steel stiffening profiles; rigid PUR HD foam insulation, CFC-free; self-closing with stainless steel spring hinges; with finger guard along entire door edge; without handle fittings; with clear acrylic glass sight window.

### Material

- 1.4301 (AISI 304)
- 1.4571 (AISI 316 Ti) <sup>1)</sup>

<sup>1)</sup> hinges 1.4301 <sup>2)</sup> not suitable for outside doors <sup>3)</sup> Installation in masonry and concrete walls <sup>4)</sup> PU element installation

# Plastic swing doors PPT1 / PPT2



## Wall opening (width x height)

## Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm from: 800 x 1800 mm to: 2200 x 2600 mm Other dimensions available on request.

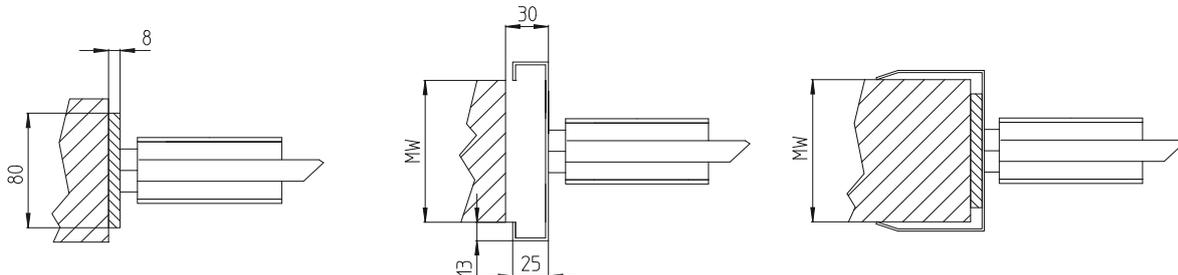
## Surface

PE 500 in colours::

- white
- red (similar to RAL 3020)
- blue (similar to RAL 5010)
- yellow (similar to RAL 1018)
- green (similar to RAL 6024)
- Other colours available on request.

## Frames

- Flush frame (FL) <sup>3)</sup>
- Surrounding frame (UZ) <sup>3)</sup>
- Cut-out frame (KLR) <sup>4)</sup>

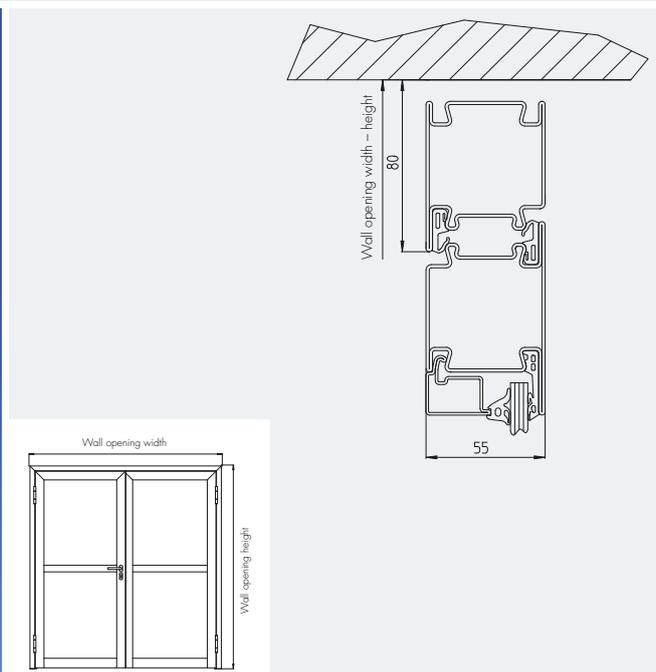


## Description for use in tenders

Plastic swing door PPT1 / PPT2 for service rooms; leave 15 mm thick, made in PE 500. Self-closing with stainless steel spring hinges; with finger guard from 90 cm above floor level; without handle fittings, with clear acrylic sight window.



## Profile door RTK1



### Wall opening (width x height)

### Standard dimensions

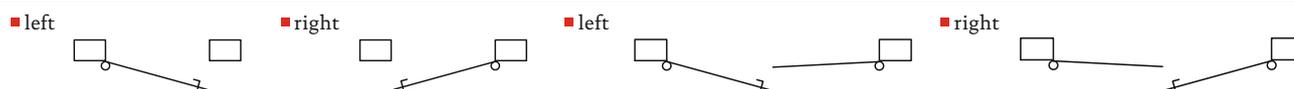
\_\_\_\_\_ x \_\_\_\_\_ mm from: 500 x 500 mm to: 2750 x 2750 mm Other dimensions available on request.

### Surface

- Ground
- Stainless steel bead blasted

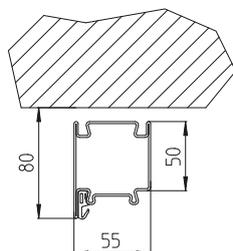
Other finishes available on request.

### Opening direction



### Frames

- Block frame (BZD) <sup>3)</sup>



### Description for use in tenders

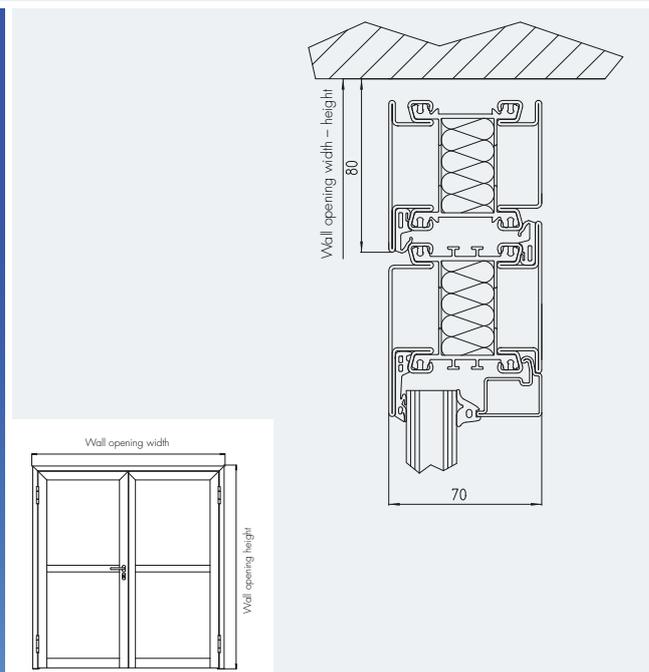
Non-insulated frame profile door, model RTK1 / RTK2; profile depth 55 mm, fully sealed, made in extruded hollow profiles, 1.5 mm thick; frame facing and transom with grooves for seals and glazing bars; with double sealing level; welded glazing bar connections, frame and leaf corners; 8 mm laminated safety glass panes / 22 mm double-wall panels; door design according to specifications; lock with stainless steel face plate, profile cylinder hole; stainless steel handle set; with 2 butt hinges for minimum friction. Optional: burglary protection up to RC 2.

### Material

- 1.4301 (AISI 304)
- 1.4401 (AISI 316 Ti) <sup>1)</sup>

<sup>1)</sup> hinges 1.4301 <sup>2)</sup> not suitable for outside doors <sup>3)</sup> Installation in masonry and concrete walls <sup>4)</sup> PU element installation

# Profile door RTW1



## Wall opening (width x height)

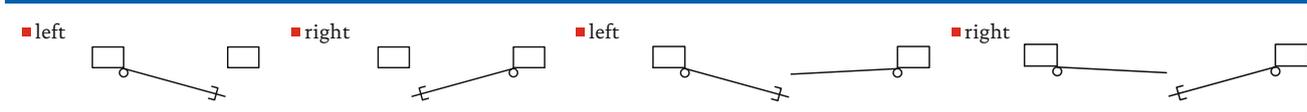
## Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm      from: 500 x 500 mm      to: 2750 x 2750 mm      Other dimensions available on request.

## Surface

- Ground
  - Stainless steel bead blasted
- Other finishes available on request.

## Opening direction



## Frames



## Description for use in tenders

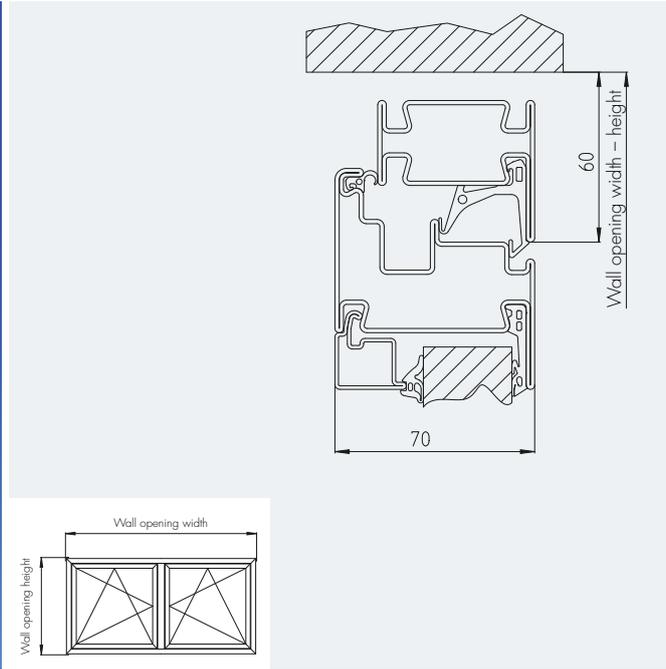
Insulated frame profile door, model RTW1 / RTW2; profile depth 70 mm, fully sealed, made in extruded hollow profiles, 1.5 mm thick; thermal insulation composite bar; frame facing and transom with grooves for seals and glazing bars; with double sealing level; welded glazing bar connections, frame and leaf corners; insulation glass panes up to 42 mm/double-wall panels up to 42 mm; door design according to specifications; lock with stainless steel face plate, profile cylinder hole; stainless steel handle set; with 2 butt hinges for minimum friction. Optional: fire protection IE30, T30 and burglary protection up to RC 3

## Material

- 1.4301 (AISI 304)
- 1.4401 (AISI 316 Ti) <sup>1)</sup>



## Profile window (cold) FEK1



### Wall opening (width x height)

### Standard dimensions

\_\_\_\_\_ x \_\_\_\_\_ mm

from: 500 x 500 mm  
to: 1350 x 1350 mm

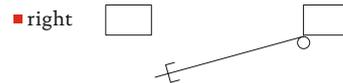
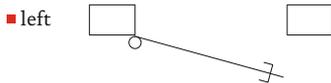
Other dimensions available on request.

### Surface

- Ground
- Stainless steel bead blasted

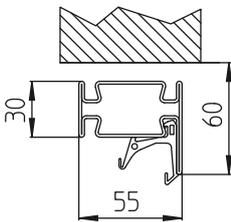
Other finishes available on request.

### Opening direction

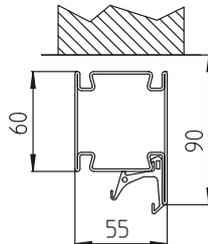


### Frame designs

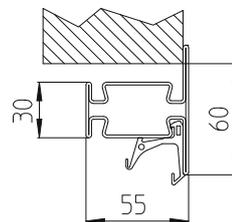
- Block frame (BRD 50) <sup>3)</sup>



- Block frame (BRD 80) <sup>3)</sup>



- T-profile frame (RT) <sup>3)</sup>



### Description for use in tenders

Non-insulated profile window, model FEK; profile depth 55 mm, fully sealed, made in extruded hollow profiles, 1.5 mm thick; frame facing and transom with grooves for seals and glazing bars; with double sealing level; welded glazing bar connections, frame and leaf corners; laminated safety glass panes/double-wall panels; door design according to specifications; corrosion protected hinges (swing, tilt, swing/tilt mechanism); stainless steel handle set.

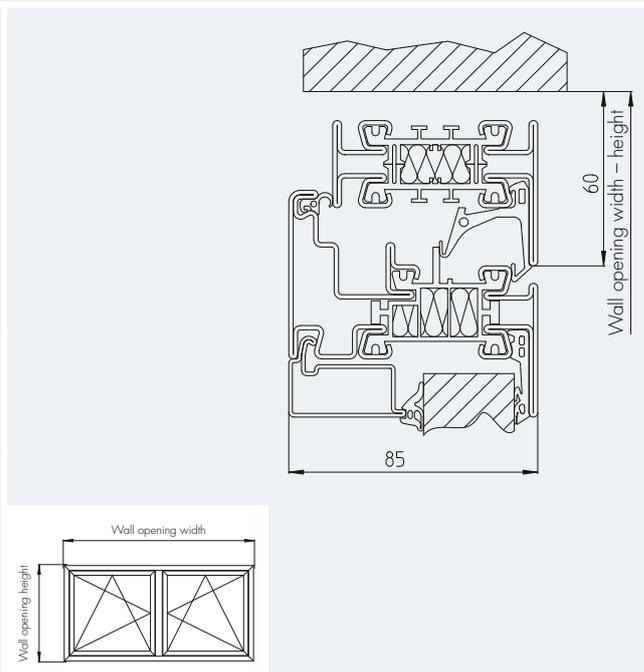
### Material

- 1.4301 (AISI 304)

- 1.4401 (AISI 316 Ti) <sup>1)</sup>

<sup>1)</sup> hinges 1.4301 <sup>2)</sup> not suitable for outside doors <sup>3)</sup> Installation in masonry and concrete walls <sup>4)</sup> PU element installation

# Profile window (warm) FEW1



## Wall opening (width x height)

\_\_\_\_\_ x \_\_\_\_\_ mm

## Standard dimensions

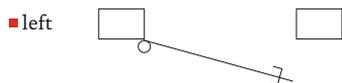
from: 500 x 500 mm  
to: 1350 x 1350 mm      Other dimensions available on request.

## Surface

- Ground
- Stainless steel bead blasted

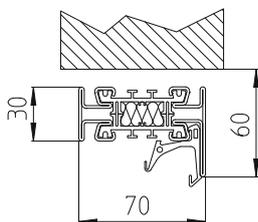
Other finishes available on request.

## Opening direction

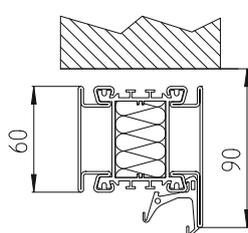


## Frame designs

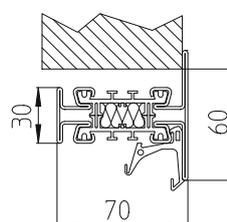
- Block frame (BRD 50) <sup>3)</sup>



- Block frame (BRD 80) <sup>3)</sup>



- T-profile frame (RT) <sup>3)</sup>



## Description for use in tenders

Insulated profile window, model FEW; profile depth 70 mm, fully sealed, made in extruded hollow profiles, 1.5 mm thick; thermal insulation composite bar; frame facing and transom with grooves for seals and glazing bars; with double sealing level; welded glazing bar connections, frame and leaf corners; insulation glass panes/double-wall panels; door design according to specifications; corrosion protected hinges (swing, tilt, swing/tilt mechanism); stainless steel handle set. Optional: fire protection and burglary protection up to RC 4.

## Material

- 1.4301 (AISI 304)

- 1.4401 (AISI 316 Ti) <sup>1)</sup>

## Accessories



### Handles

#### Standard



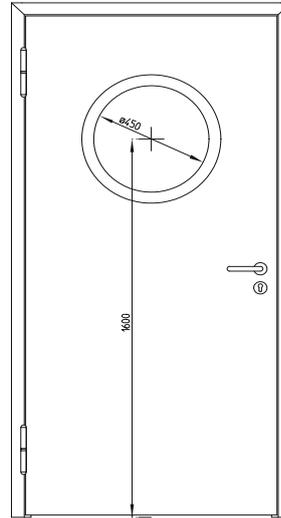
#### Rectangular lock plate



Other lock plates/handle sets available on request.  
All sets available as security knob-lever sets.

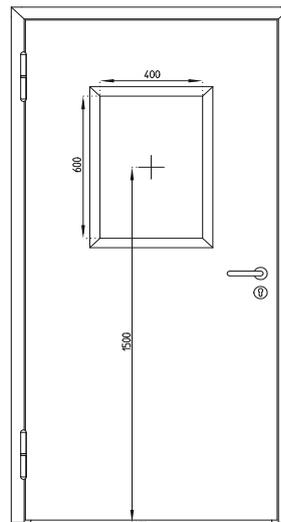
### Sight windows (optional)

#### WRD

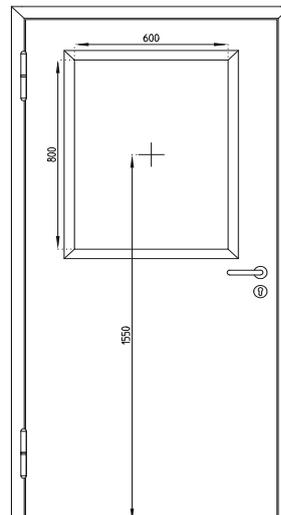


All sight window frames are made in stainless steel. Other dimensions on request.

#### WE4



#### WE6



# Accessories



## Locks

### DIN 18250

- Standard function, profile cylinder opening

### PSD

- Panic function „D“, profile cylinder opening (handle/handle)

### PSE

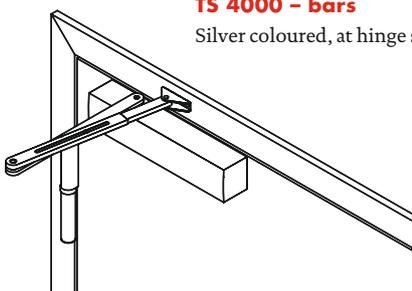
- Panic function „E“, profile cylinder opening (knob/handle)

Other functions available on request.

## Door-closing mechanisms

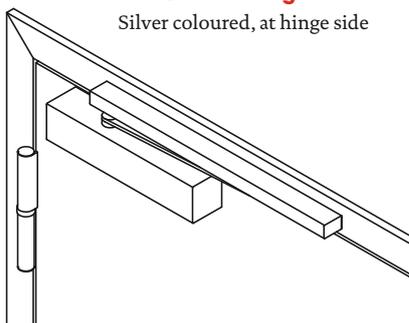
### TS 4000 - bars

Silver coloured, at hinge side



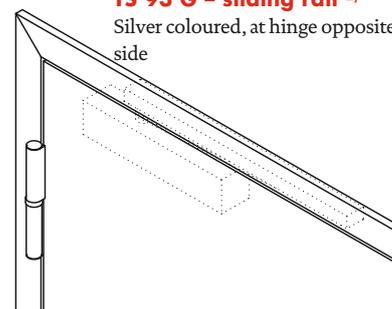
### TS 93 B - sliding rail

Silver coloured, at hinge side



### TS 93 G - sliding rail <sup>2)</sup>

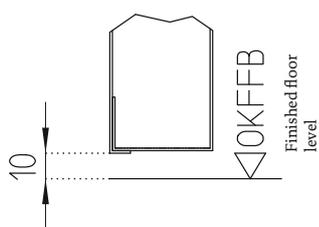
Silver coloured, at hinge opposite side



Other door-closing mechanisms available on request.

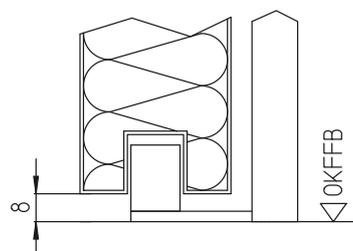
## Door sills / ground connection

### Hinged doors

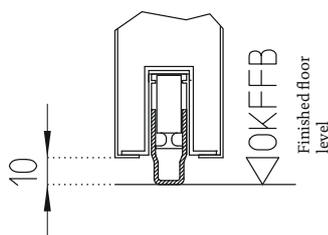


Standard, 10 mm floor clearance, without floor seal

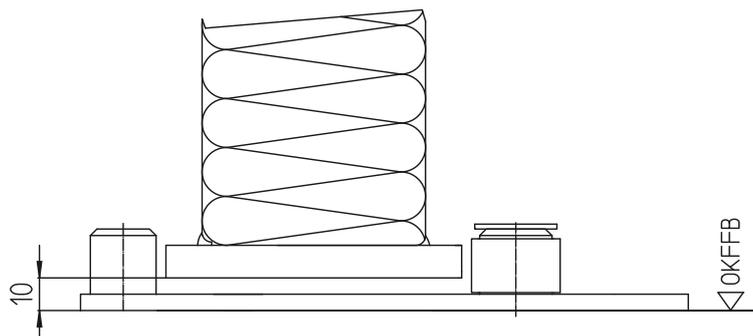
### Sliding doors



### ATH

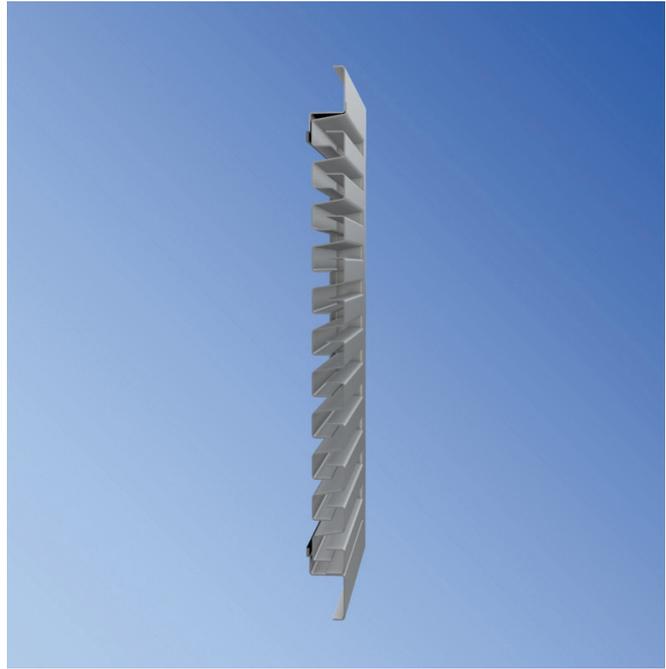


with floor seal



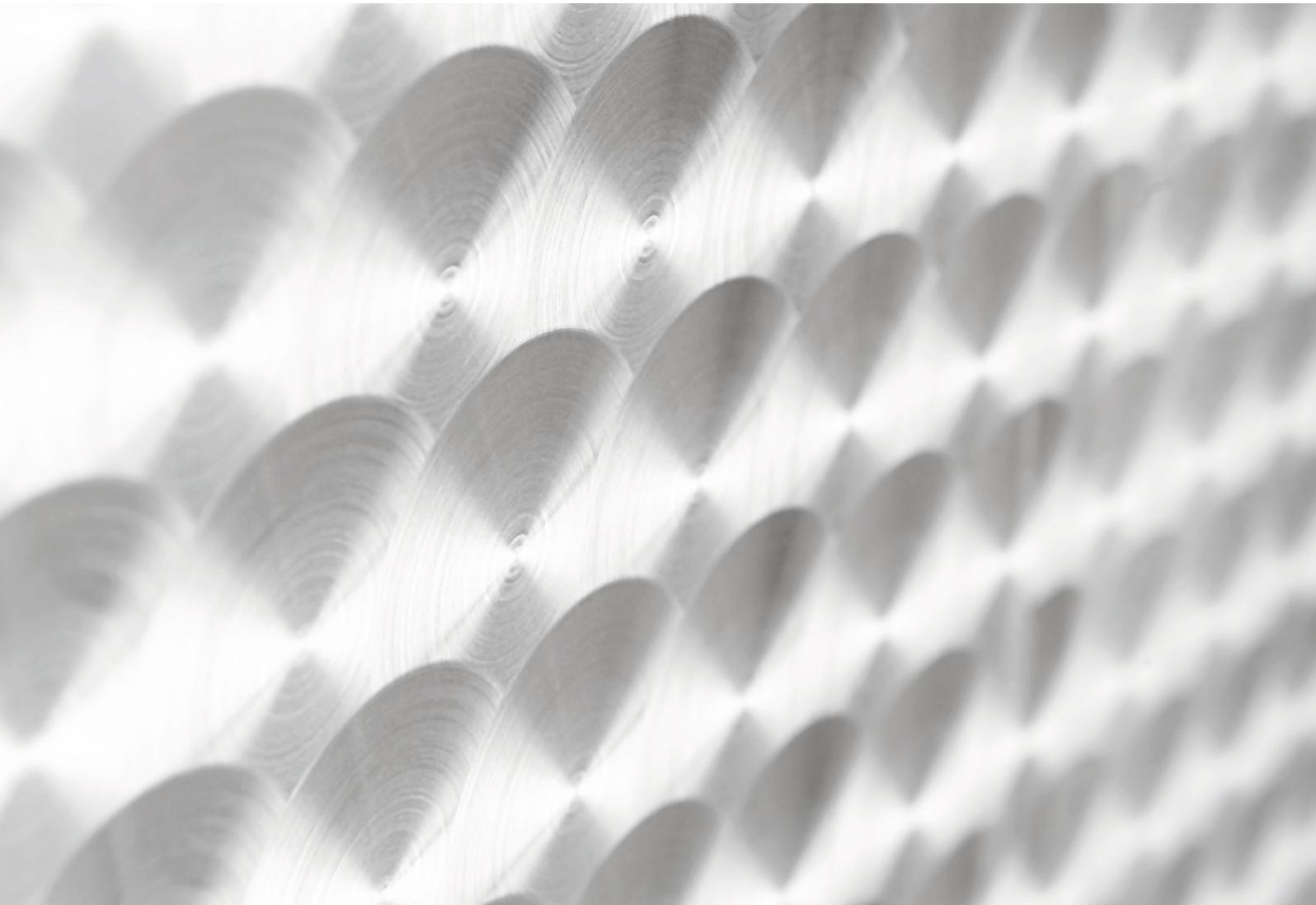
<sup>2)</sup> not suitable for outside doors

## Other products



### Ventilation louvres SJ1

Anti-burglary, poke-proof ventilation louvre with rigid fins; mounting frame and fins made in machine-straightened 2.0 mm sheet steel; stainless steel bead blasted finish, with exchangeable fly screen.



# Cleaning and care instructions for stainless steel



These notes are intended for orientation, and may not be used as a basis for guarantee or compensation claims.

## Contents

1. Introduction
2. Corrosion resistance
3. Basic cleaning
4. Routine cleaning
5. Detergents
6. Cleaning utensils
7. Cleaning intervals

## 1. Introduction

In contrast to non-alloy or low-alloy steels, stainless steels are less susceptible to corrosion. They are resistant to a number of aggressive substances and do not require any additional surface protection.

Deposits on stainless steel can, however, impair its resistance to corrosion and should therefore be cleaned and treated regularly with the purchased stainless steel care products.

## 2. Corrosion resistance

Stainless steel contains alloy components that form a passive film on the material surface. This film is only a few atoms thick and is continuously renewed, using oxygen from the air or from water. This passive film can only form on bright surfaces that are free of dirt and deposits.

## 3. Basic cleaning

Normally, the products are cleaned thoroughly by the operator before they are commissioned on site.

In many cases, the stainless steel surfaces are protected during transport, storage, assembly and installation with a plastic foil. This foil is, however, not UV-proof and might be difficult to remove after having been exposed to light for a prolonged period of time. In some cases, it might be impossible to remove the foil from sections of the material at that stage. We therefore recommend removing the protective foil as soon as this protection is no longer required, or, at the latest, one week after delivery of the product. Remove the foil by pulling it from the top down. To eliminate any deposits or residues that might prevent the formation

of the passive film, clean the surfaces with warm water and a mild detergent.

Plaster and mortar residue can be removed with a diluted phosphoric acid. Subsequently rinse the surface with plenty of clean water. Water stains and limescale deposits can be prevented by cleaning the surface with demineralised water.

Various detergent and care product manufacturers offer special products for the treatment of stainless steel. Never use diluted hydrochloric acid or cement scum remover for tiles. Should such substances have been spilled by accident onto stainless steel surfaces, remove them without delay by rinsing the surface with plenty of clean water.

Other subcontractors such as tilers working on the site might not always be aware of the damage that scum removers and hydrochloric acid can do to stainless steel.

Iron chips and particles from tools, scaffolding or transport gear must be removed without delay. Grinding dust, chips and weld spatter arising from work carried out near the stainless steel unit can cause accelerated corrosion. They might penetrate the passive film layer of the stainless steel, causing spot corrosion.

If such dirt on the surface is detected on time, it can be removed with conventional (ferrite-free) scouring pads or a special cleaning product. Subsequently rinse the surface with plenty of clean water, which enables the material to restore its passive film.



## Cleaning and care instructions for stainless steel

If corrosion has already occurred, it can only be removed mechanically or (preferably) by pickling. Pickling agents for local application are available in paste form. When using such products, strictly follow the safety and environmental protection instructions of the manufacturer. Alternatively, have the surface restored by a specialist company who will perform this task on site.

After pickling, the corrosion resistance of stainless steel is fully restored. The treated area might, however, remain visible, so that the entire stainless steel surface needs to be ground or polished. To prevent contamination with iron particles, we strongly recommend leaving the surface covered, or to install the stainless steel components only after all other constructive steel work in the vicinity is completed.

### 4. Routine cleaning

Stainless steel components that are installed outdoors are normally kept clean by rain, which prevents damaging deposits. Areas that are not reached by rain should be regularly cleaned to remove any deposits arising from air pollution. Units that are installed near coasts or in industrial areas with high concentrations of chloride and sulphur dioxide need to be cleaned more frequently, as the steel grade might not be suitable for such high impact. Please note that chloride and sulphur dioxide deposits can also occur at the bottom side of horizontal profiles.

Units installed inside a building are normally better protected. The main problem here are fingerprints that need to be removed regularly. Stainless steel is available with a range of finishes, including special finishes designed for surfaces that are frequently touched, for example in public areas. By choosing a suitable material during the planning phase, cleaning costs can be significantly reduced.

On brushed and ground surfaces, which have become very popular, fingerprints are only visible during a short initial phase after installation. They become less and less visible as the surface is regularly cleaned.

### 5. Detergents

Fingerprints can be removed using washing-up liquid. A number of detergent manufacturers offer special products that contain substances designed to protect the surface after cleaning. These products remove all fingerprints and leave behind a thin film that gives the surface a uniform sheen. After application, polish the surface with a dry cloth.

Bright annealed and mirror-polished surfaces can be cleaned with a chloride-free glass cleaner.

Persistent deposits are best treated with a conventional opaque detergent that also removes limescale and slight discolouration. Subsequently rinse the surface with clean water. Final rinsing with demineralised water (available in supermarkets, for example, for irons) prevents the formation of water stains. After cleaning and rinsing, wipe the surface dry. Do not use abrasive detergents, as they cause damage to the stainless steel surface.

Greasy or oily dirt can be removed with an alcohol-based detergent or solvent, such as white spirit, isopropyl alcohol or acetone, which do not cause damage to stainless steel. Ensure, however, that, during cleaning, the dissolved particles are not spread over a larger surface area. To remove all traces of the dirt, use a number of clean cloths to take up all dissolved particles.

Paint residue and graffiti can be removed with special alkaline or solvent-based detergents. Do not attempt to remove paint mechanically with a blade or scraper, as this would damage the metal surface.

Stainless steel surfaces that have not been properly cleaned for a long time might be treated with a polish, such as a chrome polish used for cars. If necessary, you might use a car polishing paste. This must, however, be done with great caution, as such products scratch the metal surface.

Another recommended alternative are special stainless steel cleaners containing phosphoric acid (see above instructions for the removal of iron dirt). To prevent stains, treat the entire stainless steel surface with the cleaner.

Always strictly adhere to the use, safety and environmental instructions of the product manufacturer.

Detergents that are not suitable for use on stainless steel:

- Products containing chloride or hydrochloric acid
- Bleach (if accidentally spilled onto stainless steel, rinse surface thoroughly with plenty of clean water)
- Silver polish

## Cleaning and care instructions for stainless steel



### 6. Cleaning utensils

Fingerprints can normally be removed with a damp cloth or chamois leather.

For more persistent dirt, use a conventional, non-ferrite scouring pad. Never use ferrite scouring pads, steel wool, or a steel brush, as they leave behind iron particles that destroy the stainless steel passive film.

Rolled pattern surfaces can best be cleaned with a soft nylon brush. Steel brushes (including brushes made from carbon steel) cause damage to stainless steel.

Brushed and ground surfaces (2G, 2J, 2K according to DIN 10088/3) should always be wiped in the direction of the grinding pattern.

After cleaning with water, the surfaces must be wiped dry to prevent water stains caused by minerals in the water. This is particularly important in areas with hard water. Water stains can be prevented by using demineralised water.

To prevent damage from foreign iron, do not use cleaning utensils that have been used on „normal“ steel. We strongly recommend keeping a set of special cleaning utensils that are only used for stainless steel surfaces.

### 7. Cleaning intervals

The cleaning intervals for indoor stainless steel surfaces are generally in line with those for other surfaces. To keep costs and effort to a minimum, we recommend cleaning surfaces before persistent deposits have formed.

Stainless steel used in outdoor installations might be exposed to corrosive substances, e.g.:

- Coastal air
- Industrial emissions
- Spray water containing road salt
- Vehicle and general flue emissions

Over time, exposure can cause discolouration, which can, however, be effectively removed with a detergent containing phosphoric acid.

As a rule of thumb, we recommend cleaning stainless steel surfaces that are exposed to corrosive ambient air or that are highly visible at the same intervals as glass surfaces. Surfaces that are regularly washed down by rain and are not exposed to a corrosive atmosphere need only to be cleaned every few years. Surfaces in outdoor installations that are not reached by rain must be cleaned every few months.

### 8. Source

Advice sheet 965 – Reinigung und Pflege von Edelstahl-Rostfrei im Bauwesen

(Standard cleaning and care practices for stainless steel in construction projects)



## Definitions

### Wall opening (width x height):

Actual structural dimensions of wall opening

### Door opening, clear passage:

Size of the opening when fully installed door is opened

### Door fittings:

Mechanism for the opening and closing of the door

### Security knob-lever set:

Door lever set with a knob on one side and a handle on the other side

### Door handle set:

Door lever set with handles on both sides of the door

### Multi-point lock:

Lock with multiple lock points, where handle can be reset by turning the key in the profile lock.

### Lock with panic function „D“:

Locked door can be opened from the inside; unlocked door can be opened from the outside by pressing down the handle; door fittings: door handle set

### Lock with panic function „E“:

Locked door can be opened from the inside; door can be opened from the outside with a key; door fittings: knob/handle set

### Magnetic contact:

Concealed contact indicating the position of the door: door open/door closed

### Bolt contact:

Concealed contact indicating the position of the door: door locked/door not locked

### Throat width of surrounding frame (MW):

Thickness of wall to be surrounded by frame

### Recessed section of frame face:

Recessed parts of frame face (for plastering, tiling over, etc.)

### Door frame depth:

Overall frame depth  
(1 x throat width + 2 x frame face width)

### Jamb:

Side surface of doorway in wall

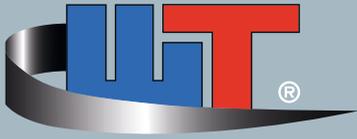
### Sealing door sill:

Built-in profile at the bottom of the door; when installed, it protrudes from the floor, sealing the air gap below the door; preferred for doors that are only entered on foot; not suitable for emergency exits and rescue doors

### Flush door sill:

Built-in profile at the bottom of the door; when installed, it is flush with the upper edge of the finished floor; the door frame is normally installed so that it protrudes into the floor by 25.0 mm; there is a gap between the bottom edge of the door and the sill





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