







At top At bottom Atzbach site: El<sub>2</sub>9
Fraham site: El<sub>3</sub>9

**99** The highest levels of quality combined with versatile designs and speed of production and processing are what make Peneder safety products so unique.

Ranging from classical swing doors through extremely strong gates up to fixed glazing and virtually invisible solutions, all out structures adapt to the architecture of the building and offer the highest degree of safety. "

Christian Peneder, CEO

# Innovative Room Closures – 35 Years of Experience

# Contents

#### 06-65 SAFETY MADE FROM STEEL

- **08** PENEDERclassic
- **22** PENEDEReasy
- **28** PENEDERforce
- **38** PENEDERrail
- **52** PENEDERrun
- **60** PENEDERlift

#### 66-103 SAFETY MADE FROM ALUMINIUM GLASS

- **68** PENEDERtherm
- **74** PENEDERlight
- **80** PENEDERpro
- **86** PENEDERbasic
- 90 PENEDERstrong
- **96** Door designs
- 100 PENEDERnurglas
- 102 PENEDERhorizontal

#### 104-109 FIRE PROTECTION MADE OF WOOD

**106** PENEDERwood

#### 110-123 TEXTILE PROTECTION

112 PENEDERtextil

# Assembly, service and maintenance

Our certified assembly team installs our product in a professional manner.

After installation our subsidiary FIX

Gebäudesicherheit + Service GmbH will be glad to offer you post-sales service and maintenance support.

### Product variety

Complete offering

Our ISO 9001:2015-certified offering provides a complete range. Starting from consulting through

installation, right up to service and maintenance.

development, design and production and

Our comprehensive range made from steel, aluminium glass, wood and textiles guarantees a variety of designs, sizes and implementations.

#### Speed

We manufacture our products at two in-house manufacturing facilities at Atzbach and Fraham in Upper Austria, which guarantees rapid delivery.

#### Material perfection

All doors and gates are supplied with a final coating and a finished surface. The frame fillings are installed at the factory and they can be built-in in dry construction at the latest possible time.

# Consulting and project management

Our long-serving staff members offer you their professional advice on a personal basis. You always have a contact who manages your project on an end-to-end basis.

We take the actual measurements and carry out production with millimetre precision.

#### Quality management

**EVERYTHING** 

FROM A

SINGLE

**SOURCE** 

Our comprehensive quality management system guarantees product quality, customer focus, resource efficiency and legal compliance on an international basis.

# Safety made from steel

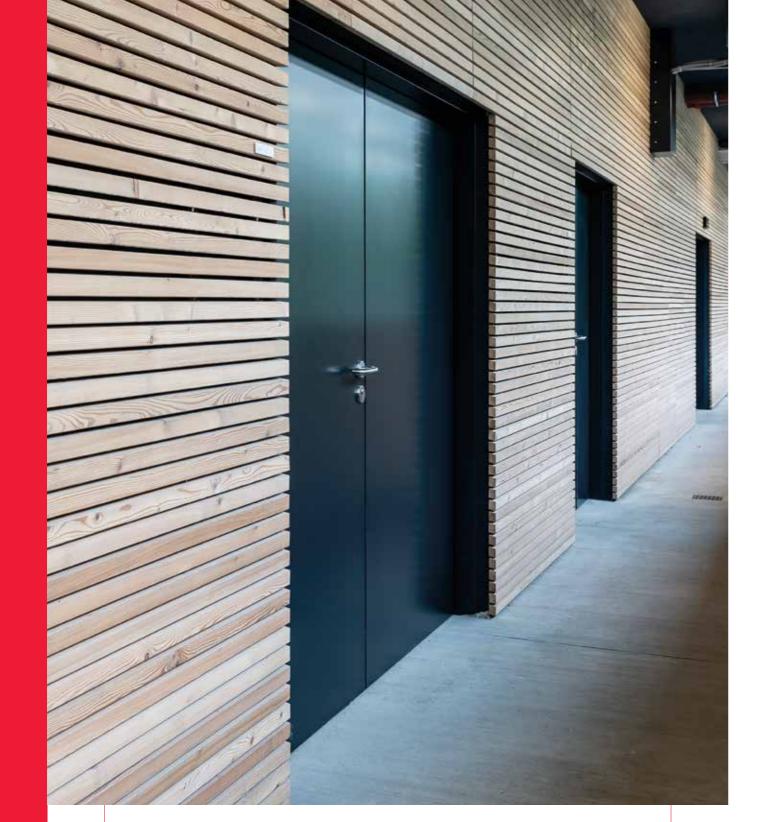
At our production facility in Fraham (Upper Austria),we manufacture all our steel PENEDER fire protection doors and gates in record time.

It is possible to implement our fire protection doors and gates in a wide range of designs, and versions, which means that we can find the perfect solution for any application.



Manufacturing shop at the **Fraham site** 





#### **Special features:**

\_\_\_\_\_ Delivery all over Austria in five business days

\_\_\_\_\_ Wide range of frames

Refurbishment frame with no constructional measures and without reducing the effective clear opening

\_\_\_\_ Three-dimensional adjustable, maintenance-free building hinges

\_\_\_\_\_ Glazing with glazing bar or flush-mounted

U-value from 1.6 W/(m²K) depending on the class, size and version

\_\_\_\_\_ Installation in shaft walls also possible

\_\_\_\_ C5 self-closing

High-quality appearance for any building concept

# **PENEDERclassic**The functional all-rounder

PENEDERclassic is a versatile swing door made from steel. Regardless of whether it's an inside or outside door, single- or double-leaf, with fire, smoke, noise or burglary protection, this high-quality building or multifunctional door embodies everything that PENEDER stands for with regard to fire protection. It is available at unparalleled speed and in large dimensions.

#### Sizes (clearance)

Width\* single-leaf up to 1,490 mm
Width\* double-leaf up to 3,000 mm
Height\* up to 3,470 mm, with glass skylight up to 4,100 mm,
With sheet metal top section up to 4,400 mm

Surface\* 10 m<sup>2</sup>

Glazing\* up to 1.95 m² per leaf



**EXTERNAL DOORS:** With the European CE mark according to EN 16034 and/or EN 14351-1



**INTERNAL DOORS:** With Austrian certificate of registration according to ÖNORM B 3850/51

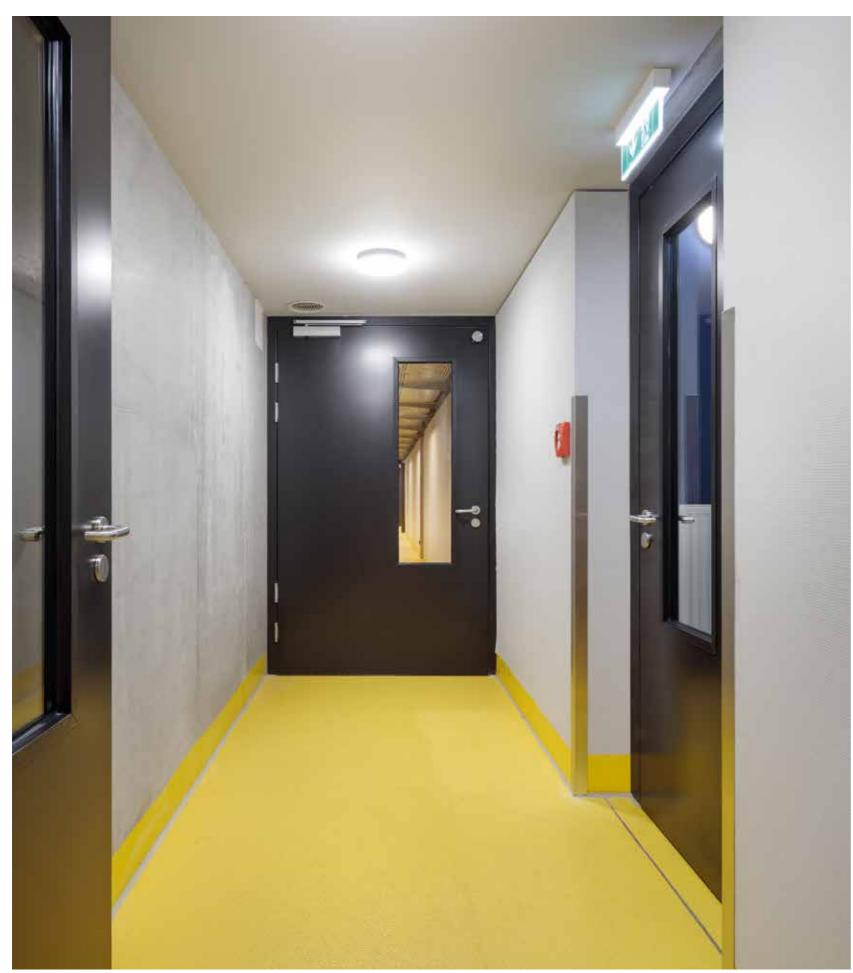
<sup>\*</sup> The actual sizes depend on the class and version

		classic-00 single/ double-leaf	<b>classic-30</b> single/ double-leaf	<b>classic-90</b> single/dou- ble-leaf	classic-00-RC single-leaf	classic-30-RC single-leaf
30	El <sub>2</sub> 30 fire-retardant		<b>✓</b>			<b>✓</b>
90	El <sub>2</sub> 90 fire-resistant			<b>✓</b>		
S <sub>200</sub>	S <sub>200</sub> smoke-shielding	<b>✓</b>	✓	<b>✓</b>	<b>√</b> **	<b>√</b> **
45 (1)) ⊙	Up to 45 dB Sound-deadening	<b>√</b> *	<b>√</b> ∗	<b>√</b> ∗		
RC2	RC2 anti-burglary protection				<b>✓</b>	<b>✓</b>
RC3	RC3 anti-burglary protection				<b>✓</b>	<b>✓</b>
×.	External door	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
<b>4</b>	Escape and emergency routes	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
	Stainless steel door and frame	<b>✓</b>	<b>✓</b>			
	Flush-mounting on hinge side is possible	<b>✓</b>	<b>✓</b>	<b>✓</b>		
	Top section/skylight	<b>✓</b>	✓			
	Ventilation grille	<b>✓</b>	<b>✓</b>			
	Glass cutout	✓	<b>✓</b>	<b>✓</b>		

Combination options depending on the size, class and version

<sup>\* 45</sup> dB with protective shell

<sup>\*\*</sup> Except for escape and emergency routes with RC3



10

# Functional all-rounder







- Flush-mounting on both sides Shaft wall function

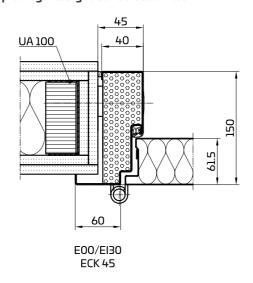
## **PENEDER**classic

# Selection of flush-mounted frames

Corner frame



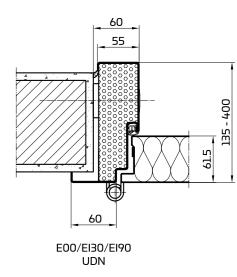
Example: Lightweight construction wall



Corner frame reveal-deep



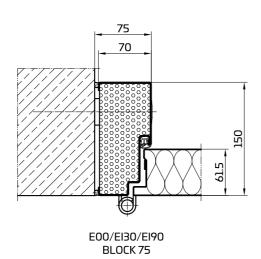
Example: Brick wall



Block frame



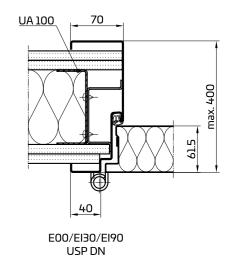
**Example: Concrete wall** 



Closed frame

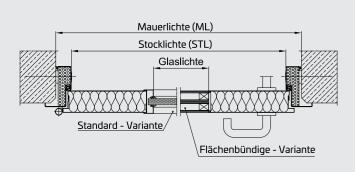


Example: Lightweight construction wall

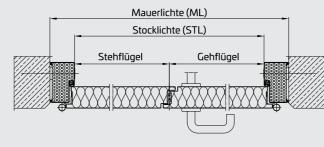


Frame filling according to requirements

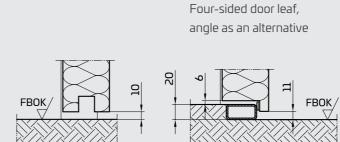
**Single-leaf swing door** with corner frame



**Double-leaf swing door** with block frame



Without sill construction

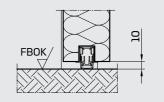


Sill construction

20 mm shaped tube +

Drop-down seal

Brush sealing



FBOK/

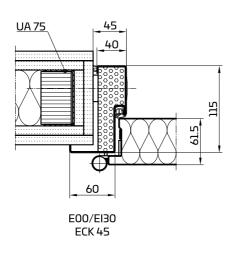
## **PENEDER**classic

## Selection of rebated frames

Corner frame



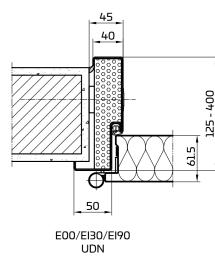
Example: Lightweight construction wall



Corner frame reveal-deep



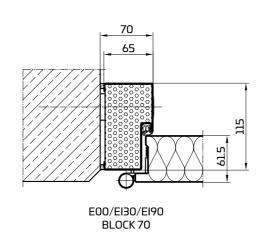
Example: Brick wall



Block frame



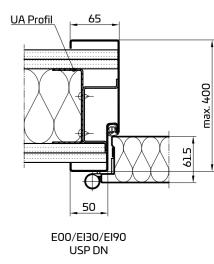
Example: Concrete wall



Closed frame



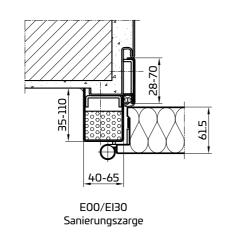
Example: Lightweight construction wall



Refurbishment frame



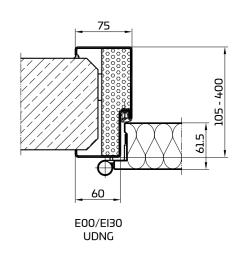
Example: Brick wall



Two-piece closed frame



Example: Concrete wall

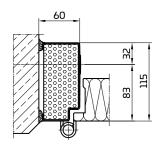


Frame filling according to requirements

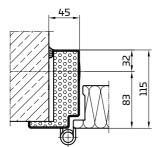
## **PENEDER**classic

# Selection of flush-mounted frames

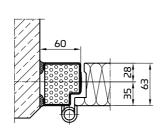
Block 60 00/30



Corner 45 00/30

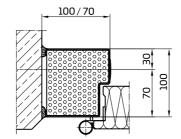


Flush 60 00/30

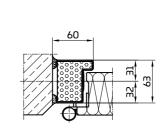


Selection of rebated frames

Block 100/70 00/30

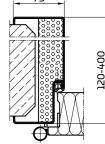


Flush 60 00/30

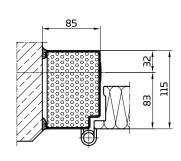


Two-piece closed frame

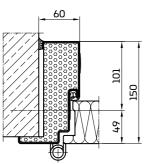
00/30  $S_{a}/S_{200}$ 



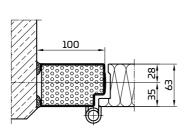
Block 85 00/30



Corner 60 00/30/90  $S_a/S_{200}$ 

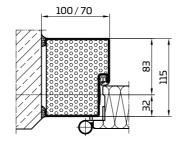


Flush 100 00/30



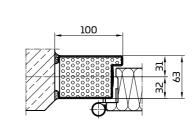
Block 100/70

00/30/90  $S_a/S_{200}$ 

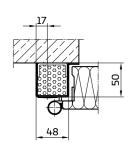


Flush 100

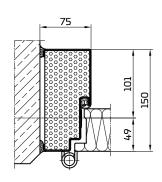
00/30



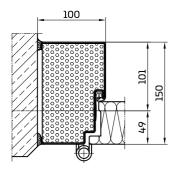
Attachment frame 00/30/90



Block 75 00/30/90  $S_a/S_{200}$ 

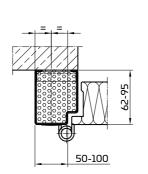


Block 100 00/30/90  $S_a/S_{200}$ 



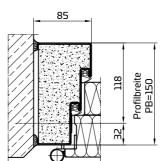
Variable attachment frame

00/30

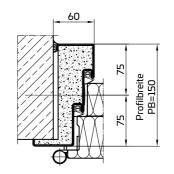


Block 85 00/30/90

45 dB

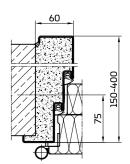


Corner 60 00/30/90 45 dB



Closed frame 00/30/90

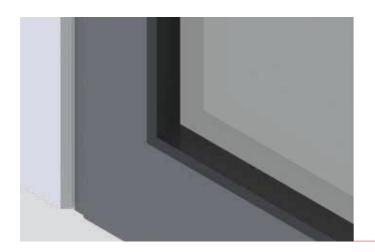
45 dB



Frame filling according to requirements

#### Door glazing

Our range includes all shapes of door glazing, which are always tailored to the individual requirements of our customers. Regardless of whether PENEDER glass cutouts are rectangular, circular or of special shapes, there are virtually no limits to their possible designs.



Flush-mounted glazing of door leaf thickness



Clipped glazing bar in stainless steel or powder-coated, choice of RAL colours



**bar**in stainless steel or powder-coated, choice of RAL colours

#### **Building hinges**

We can supply 3D-adjustable building hinges either in stainless steel or powder-coated in a choice of RAL colours.





Flush-mounted

\_\_ Rebated

#### Door locking systems

Our door closers are absolutely reliable and quiet. From our wide range of technical and visual products you can choose the ones that are tailor-made for your requirements.



Door coordinator



Slide rail door closer



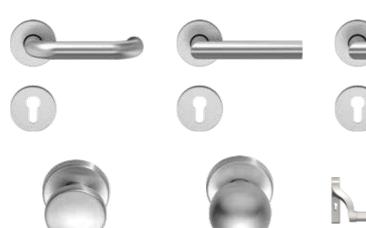
Integrated door closer



Secondary leaf locking Snap-action bolt or rebate bolt lock

#### Fitting technology

Make your own mind up about our wide selection of different fittings that are available in stainless steel, aluminium or plastic.











Push bar





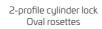




Shell handle with panic function as per EN 179



Push bar



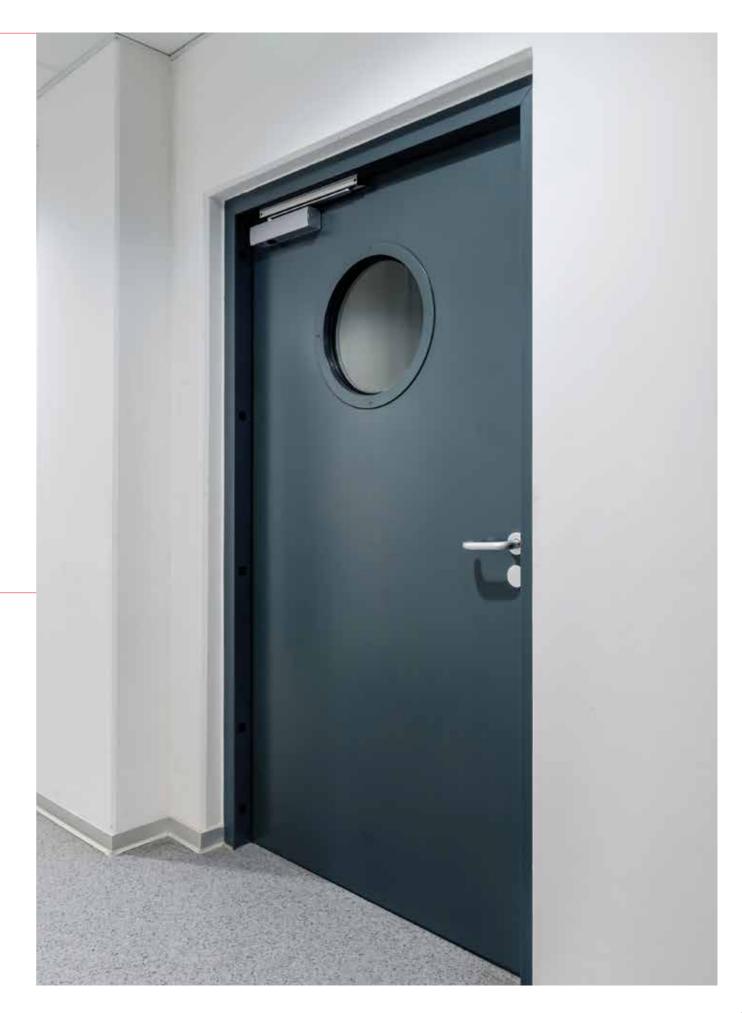


# Frame installation in record time

Our depth-adjustable assembly bushes make possible rapid and uncomplicated fixing of frames on concrete or brick walls or dry wall constructions.

The discreet jointing provides an elegant transition on any background.

Representation of frame installation





# **PENEDEReasy**The simple standard door

A steel door that contains the concentrated force of PENEDER fire protection technology. Produced with an eye for quality with a closed frame for dry wall construction, a corner and block frame for wall plug mounting as well as tried and tested hinges, closers and fittings, PENEDEReasy is the quick solution for simple standard doors.

#### Sizes (clearance)

Width: 800, 850, 900, 1,000 and 1,200 mm
Height: 2,000 and 2,100 mm



With Austrian certificate of registration according to ÖNORM B 3850/51

#### Frames

Corner and block frame (wall plug mounting)
Closed frame with profile width of
145 and 170 mm (dry wall construction)

#### **Fittings**

Plastic, aluminium or stainless steel
Panic lock as per EN 179

	<b>easy-00</b> single-leaf	<b>easy-30</b> single-leaf
El <sub>2</sub> 30 fire-retardant		✓
Escape and emergency routes as per EN 179	✓	<b>✓</b>



#### Special features:

- \_\_\_\_\_ Single-leaf steel door for indoor areas
- \_\_\_\_\_ Delivery all over Austria in five business days
- \_\_\_\_\_ Also available without fire protection function
- Surface including building hinges galvanised or powder-coated as standard in RAL 9010 or choice of RAL colours
- Rebated door leaf
- \_\_\_\_ C5 self-closing

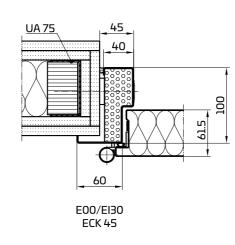
The quick solution for simple standard door

# **PENEDEReasy**Selection of rebated frames

Corner frame



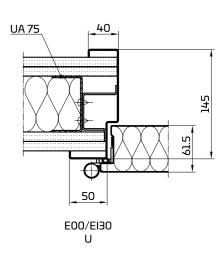
Example: Lightweight construction wall



Closed frame



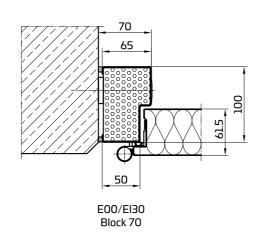
**Example: Lightweight construction wall** 



Block frame



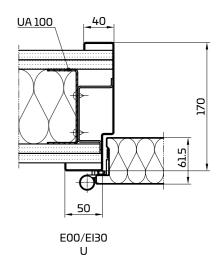
Example: Concrete wall with wall plug mounting



Closed frame

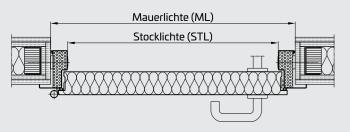


Example: Lightweight construction wall

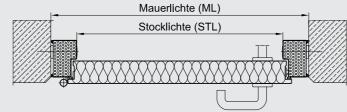


Frame filling according to requirements

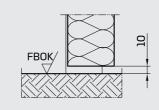
**Single-leaf swing door** with corner frame



**Single-leaf swing door** with block frame

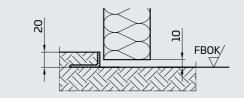


Without sill construction



Sill construction

20 mm angle in the clearance



#### Fitting technology

Door lever or knob made of stainless steel, aluminium or plastic with panic lock as per EN 179 as an option.







3D-adjustable building hinges, powder-coated in choice of RAL colours.



Rebated door leaf

#### Door locking systems

Our door closers are absolutely reliable and quiet.
We can offer the right product for any requirements.



Slide rail door closer

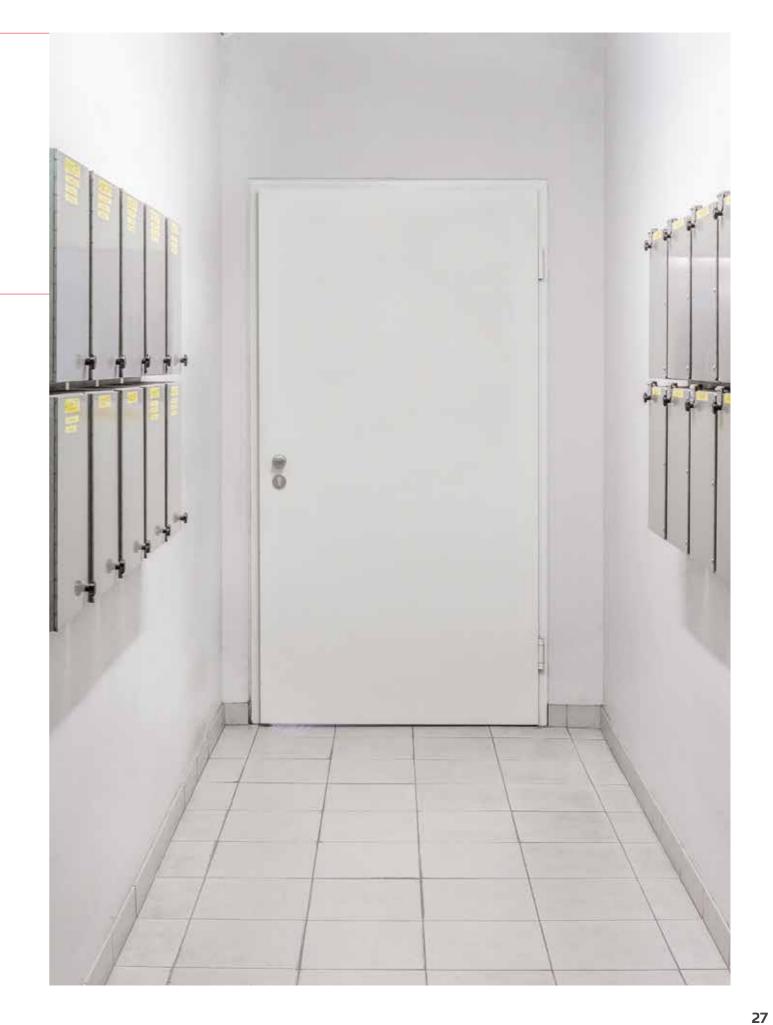


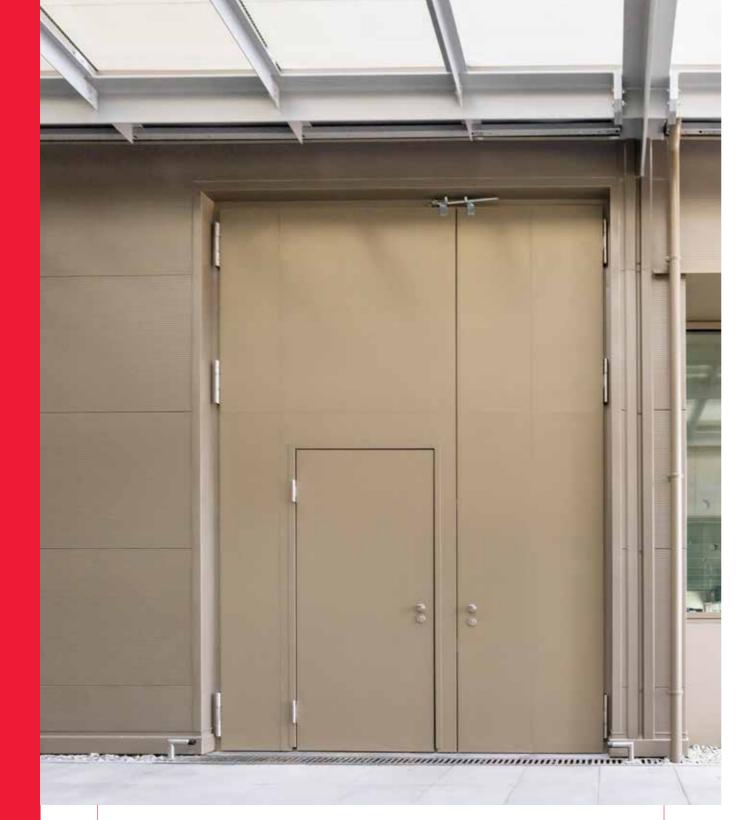
# **Frame installation** in record time

Our depth-adjustable assembly bushes make possible rapid and uncomplicated fixing of frames on concrete or brick walls or dry wall constructions.

The discreet jointing provides an elegant transition on any background.

**Representation of** frame installation





#### Special features:

- \_\_\_\_\_ Particularly robust design
- \_\_\_\_\_ Extremely strong 3D building hinges developed
  - in\_hous
- \_\_\_\_ Can be installed in cramped conditions
- \_\_\_\_\_ Built-in pedestrian door and glass cut-outs
- \_\_\_\_\_ Simple installation
- C2 self-closing

Unique size and stability

# **PENEDERforce**

## Manifest force

PENEDERforce is a symbol for strength and design. The powerful swing door is permitted for large dimensions and looks very impressive. The swing door appears very imposing due to a wide variety of different functional and design elements, including, for example, a built-in pedestrian door (with an electrical opener and Reed contacts), specially developed hinges, glass cut-outs and particularly attractive joints.

Whether the swing door is supplied with fire protection and/or smoke shielding, you won't find a more resistant swing door in its class. And despite its size and stability, PENEDERforce is particularly easy to install due to its pre-fabricated elements. Other unique features of the swing door are short delivery periods of just a few weeks and its long life.

#### Sizes (clearance)

Width\* up to 5,600 mm Height\* up to 6,100 mm Surface\* up to 28.8 m²

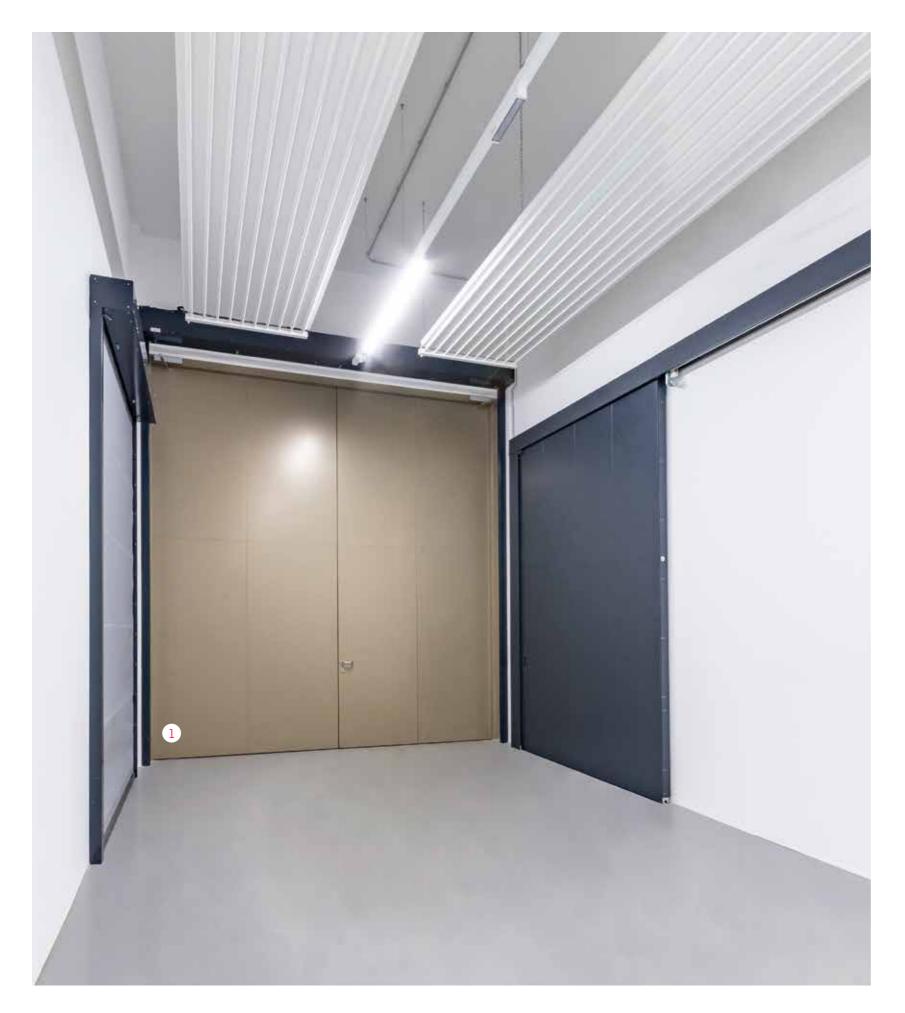


With the European CE mark according to EN 16034 and/or EN 13241

\* The actual sizes depend on the class and version

	force-00 single/double-leaf	force-30 single/double-leaf	force-90 single/double-leaf	force-120 single/double-leaf
El <sub>2</sub> 30 fire-retardant		<b>✓</b>		
El <sub>2</sub> 90 fire-resistant			<b>✓</b>	
El <sub>2</sub> 120 highly fire-resistant				<b>✓</b>
S <sub>a</sub> smoke-shielding	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Escape and emergency routes with built-in pedestrian door	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Built-in pedestrian door	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Glass cutout	<b>✓</b>	✓	<b>✓</b>	<b>✓</b>

Combination options depending on the size, class and version



# Manifest force



Double-leaf with an 18.5 m² gate surface Built-in emergency exit function

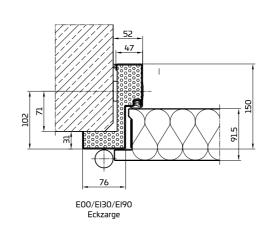
# **PENEDERforce**

Sectional drawings (selection)

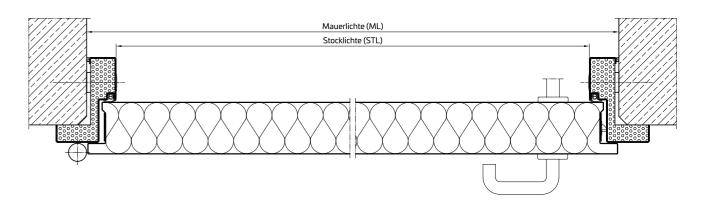
Corner frame



Example: Concrete wall



Single-leaf swing door with corner frame



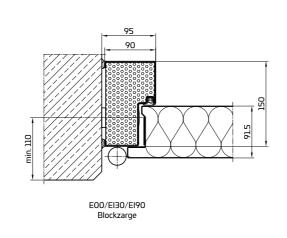
Block frame



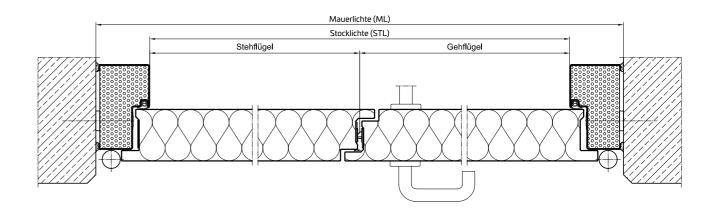
Example: Concrete wall

Stop on building side

Four-sided door leaf

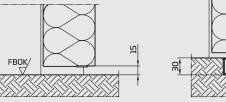


**Double-leaf swing door** with block frame

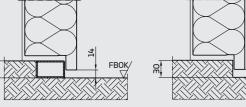


Without sill construction

FR 50 x 30 + Four-sided door leaf

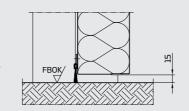


Sill construction

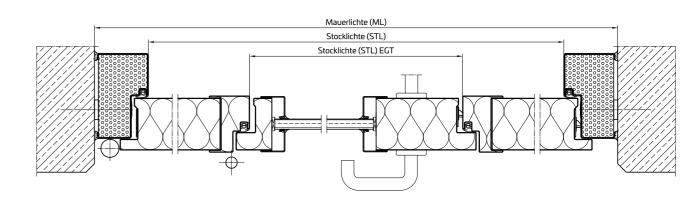


Brush sealing

as special design only

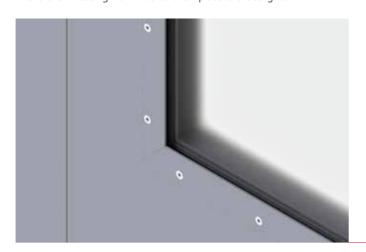


**Single-leaf swing door** with built-in pedestrian door and glass cut-out



#### Glazing

Our range includes all shapes of glazing, which are always tailored to the individual requirements of our customers. Regardless of whether PENEDER glass cutouts in the element or the built-in pedestrian door are rectangular, circular or of special shapes, there are virtually no limits to their possible designs.



Screw-on glazing barin stainless steel or powder-coated, choice of RAL colours



**Screw-on glazing bar**in stainless steel or powder-coated, choice of RAL colours

#### Hinges

Our stainless steel hinges that were developed in-house are solid and robust but can still be adjusted on a three-dimensional basis. This makes opening as easy as pie even with the maximum gate size.



Hinges made of

#### Locking systems

Our door closers are absolutely reliable and quiet. From our wide range of technical and visual products you can choose the ones that are tailor-made for your requirements.



Rack and pinion closer with link arm



Tandem rack and pinion closer with link arm



Slide rail door closer with built-in pedestrian door



Door coordinator



# Fitting technology

Make your own mind up about our wide selection of different fittings that are available in stainless steel, aluminium or plastic.



























Push bar with built-in pedestrian door

with built-in pedestrian door







Shell handle with panic function as per EN 179

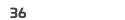


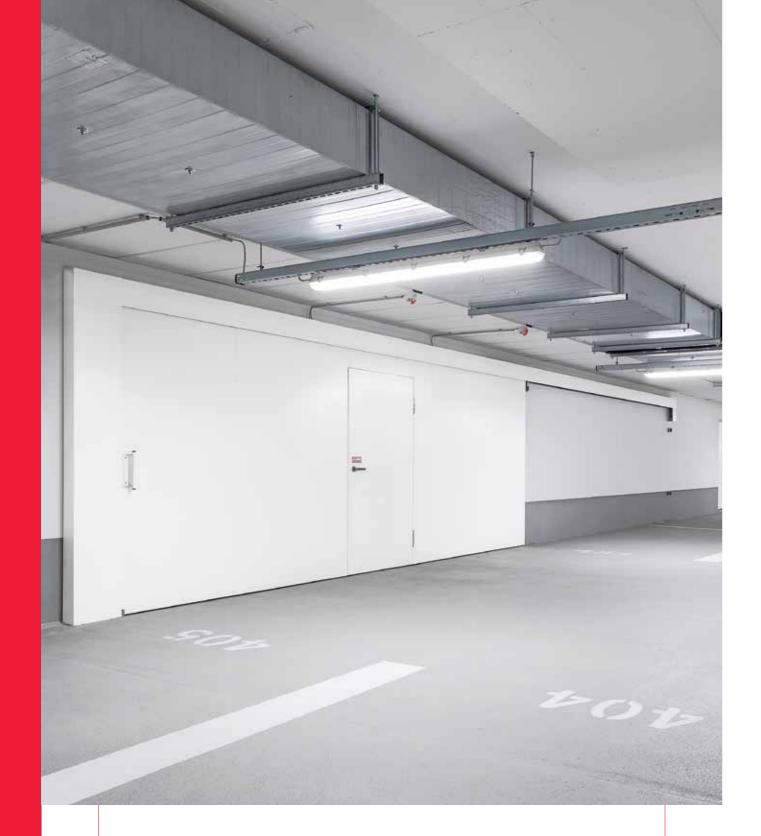
# Frame installation in record time

Our depth-adjustable assembly bushes make possible rapid and uncomplicated fixing of frames on concrete and planked steel structures.









#### Special features:

\_\_\_\_\_ Possible without inlet profile (without smoke protection)

\_\_\_\_\_ Without threshold over the entire opening area

Headroom of only 100 mm with emergency exit door (with a frame clearance of 2,100 mm a 2,000 mm emergency exit door is possible)

\_\_\_\_ C2 self-closing

ideal for spacious opening

# PENEDERrail The big attended to the

# The big attractive one

PENEDERrail is a particularly imposing sliding gate that will impress you with its large dimensions and wide range of technical features, as well as its short delivery times. The attractive design with a sliding rail, inlet and labyrinth profiles as well as a niche flap in all the RAL colours is what sets PENEDERrail apart. Features specific to the version, including, for example, an automatic drive or a pedestrian door with no threshold with an EN 179-compliant shell handle, are what make this sliding gate unique. In addition to this, PENEDERrail is available as a telescopic version as PENEDERrail extended as well as without an inlet.

#### Sizes (clear wall height)

Width\* up to 16,000 mm Height\* up to 5,500 mm Gate surface\* up to 50 m²



With the European CE mark according to EN 16034 and/or EN 13241

-acts -

\* The actual sizes depend on the class and version

PENEDERrail	rail-00 single/double-leaf	<b>rail-30</b> single/double-leaf	<b>rail-90</b> single/double-leaf
El <sub>2</sub> 30 fire-retardant		✓	
FI <sub>2</sub> 90 fire-resistant			<b>✓</b>
S <sub>200</sub> smoke-shielding	✓	✓	✓
Escape and emergency routes in built-in pedestrian door	✓	✓	✓
Surface made of stainless steel	✓	✓	<b>✓</b>
Glass cut-outs and built-in pedestrian door	<b>✓</b>	✓	<b>✓</b>

	PENEDERrail extended Telescopic version	rail ext-00 single-leaf	rail ext-30 single-leaf	rail ext-90 single-leaf	rail ext-00 double-leaf	rail ext-30 double-leaf	rail ext-90 double-leaf
30	El <sub>2</sub> 30 fire-retardant		<b>✓</b>			<b>✓</b>	
90	El <sub>2</sub> 90 fire-resistant			<b>✓</b>			<b>✓</b>
<b>₹</b> •	Escape and emergency routes in built-in pedestrian door	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
	Surface made of stainless steel	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
	Glass cut-outs and built-in pedestrian door	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
	Two-piece telescopic version	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>~</b>
	Telescopic version 3- or 4-piece	<b>✓</b>	<b>✓</b>				

Combination options depending on the size, class and version



# Attractive and large





- Single-leaf, galvanised Double-leaf with emergency exit function Without inlet profile

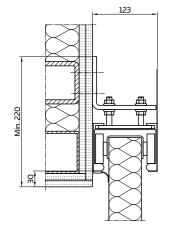
## **PENEDERrail**

# Sectional drawings (selection)

#### Installation variants of sliding rail EI30

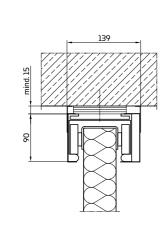
#### Wall-mounted variant

Dry wall construction with smoke protection



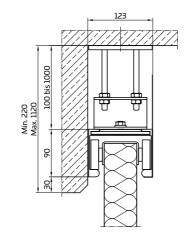
#### Ceiling-mounted direct variant

Concrete wall



#### Suspended ceiling-mounted variant

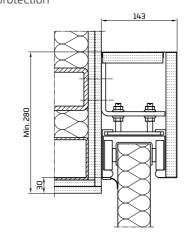
Concrete wall



#### Installation variants of sliding rail EI90

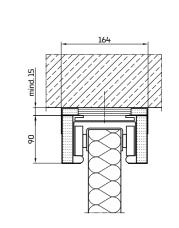
#### Wall-mounted variant

Dry wall construction with smoke protection



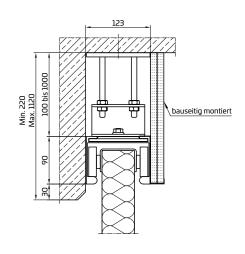
#### Ceiling-mounted direct variant

Concrete wall



#### Suspended ceiling-mounted variant

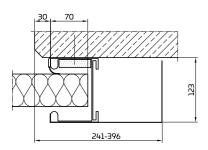
Concrete wall



#### Installation variants of inlet profile EI30

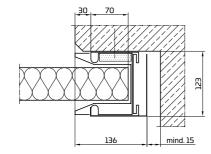
#### Normal inlet

Concrete wall with smoke protection



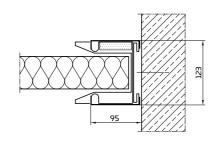
#### Weight deflected

Concrete wall



#### Flush inlet

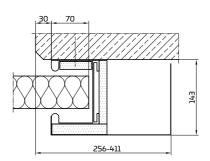
Concrete wall



#### Installation variants of inlet profile EI90

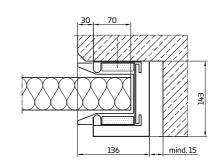
#### Normal inlet

Concrete wall



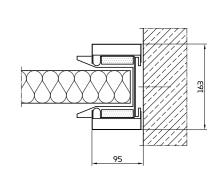
#### Weight deflected

Concrete wall

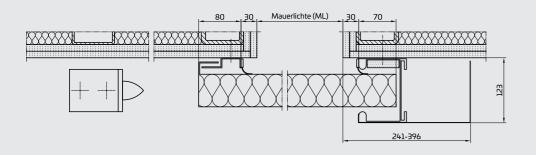


#### Flush inlet

Concrete wall

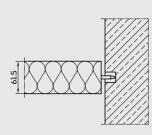


**Sliding gate** single-leaf normal inlet El30 with smoke protection, dry wall construction

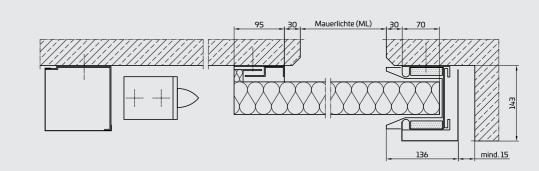


#### Installation without inlet profile

Concrete wall



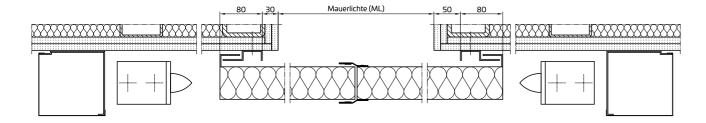
**Sliding gate,** single-leaf Weight deflected El90, concrete wall



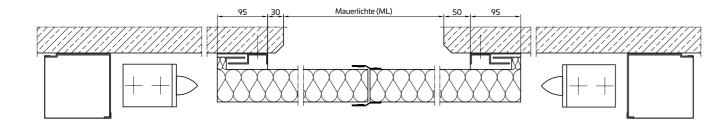
# **PENEDERrail**

# Sectional drawings (selection)

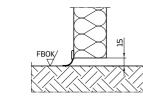
**Sliding gate** double-leaf with weight box El30, dry wall construction



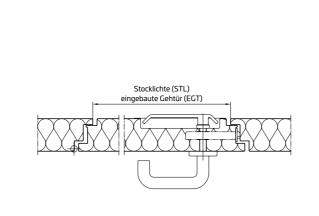
**Sliding gate** double-leaf with weight box El90, concrete wall



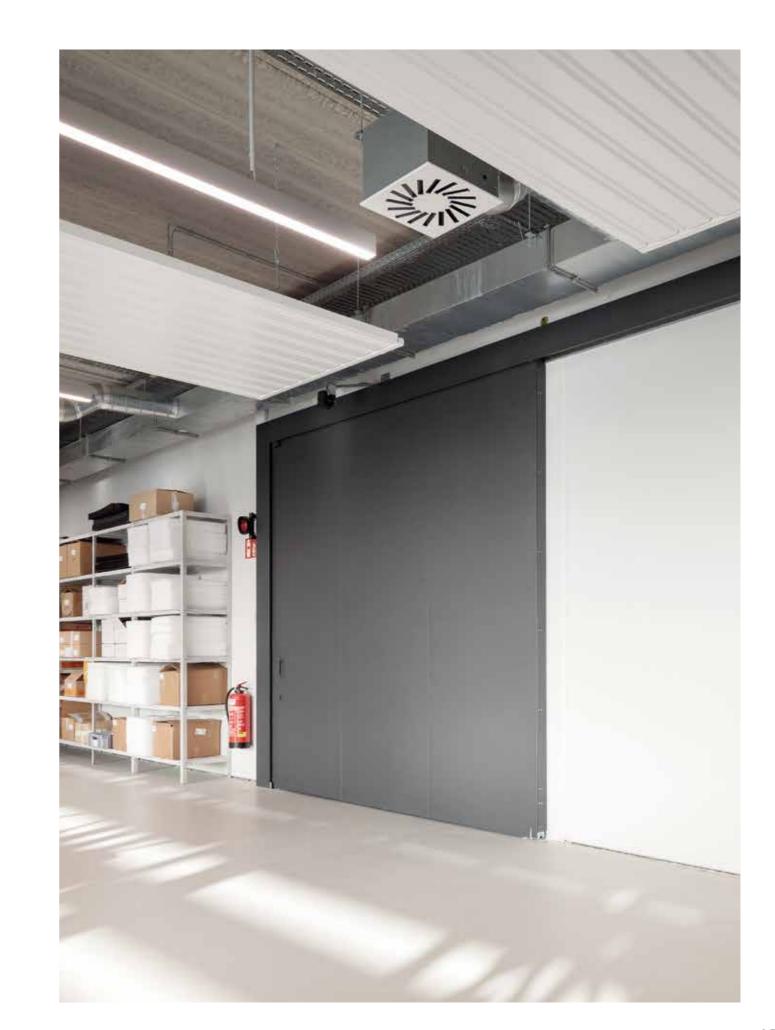
Baseboard Floor clearance 15 mm



Baseboard with smoke protection



Built-in pedestrian door

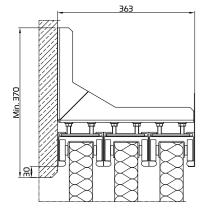


## **PENEDERrail extended**

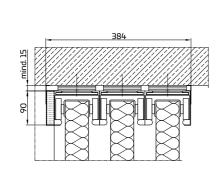
Sectional drawings (selection)

**Installation variants of three-piece sliding rail EI30** concrete wall (up to four pieces are possible)

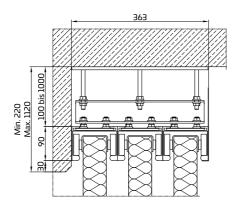
Wall-mounted variant



Ceiling-mounted direct variant

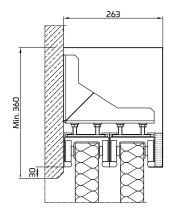


Suspended ceiling-mounted variant

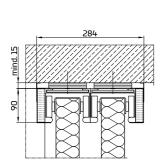


#### **Installation variants of two-piece sliding rail EI90** concrete wall

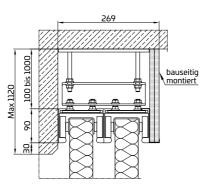
Wall-mounted variant



Ceiling-mounted direct variant



Suspended ceiling-mounted variant



#### Installation variants of inlet profile EI30-EI90

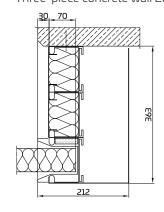
Normal inlet Three-piece concrete wall EI30 Two-piece concrete wall EI90

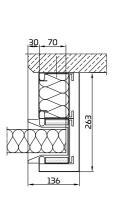
Weight deflected

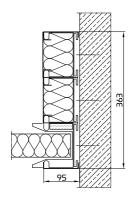
## Flush inlet

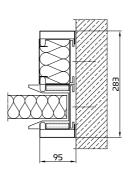
Flush inlet

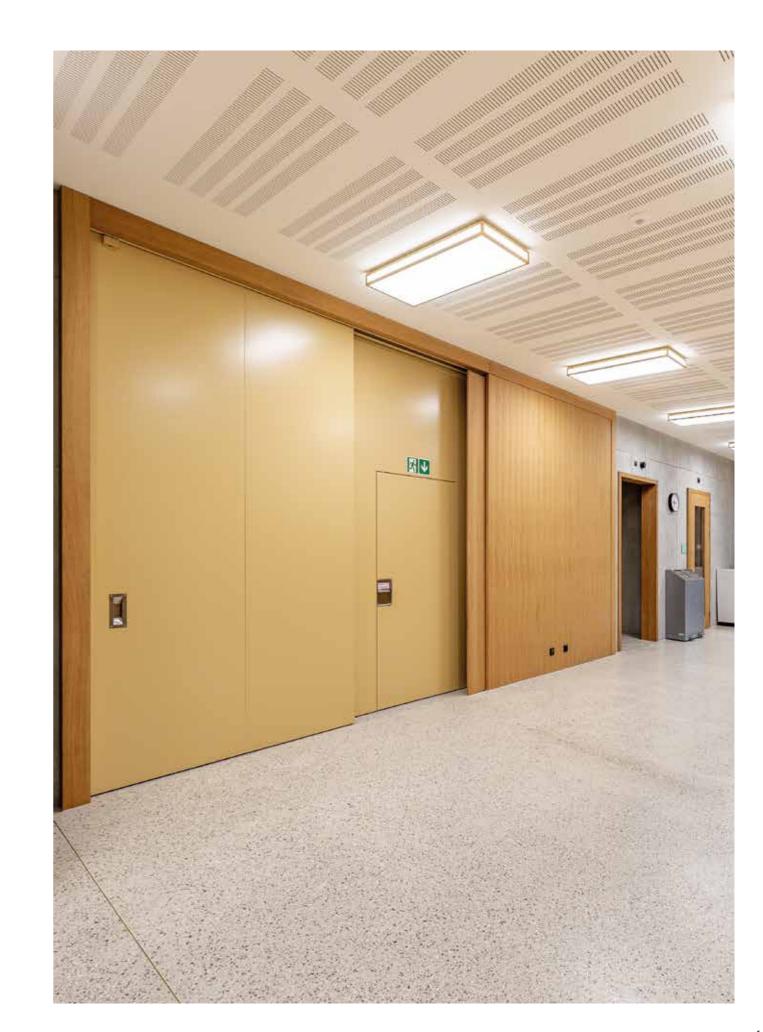
Three-piece concrete wall EI30 Two-piece concrete wall EI90





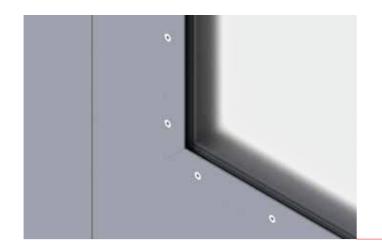






#### Glazing and building hinges

Our range includes all shapes of glazing, which are always tailored to the individual requirements of our customers. Regardless of whether PENEDER glass cutouts in the element or the built-in pedestrian door are rectangular, circular or of special shapes, there are virtually no limits to their possible designs.



Screw-on glazing bar in stainless steel or powder-coated, choice of RAL colours



Screw-on glazing bar in stainless steel or powder-coated, choice of RAL colours



adjustable building hinges made from stainless steel

#### Door closer with built-in pedestrian door and controls of sliding gate



Integrated door closer



Shell handle, powder-coated

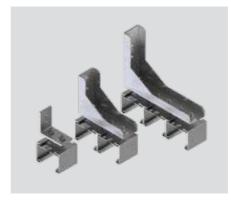


Stainless steel shell handle \_\_\_\_\_



Push/pull door handle, powder-coate with circle deadloo

#### Installation variants of 1-, 2- and 3-piece sliding rail



Wall-mounted variant



Direct ceiling mounting

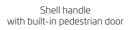


Suspended ceiling-mounted

#### Fittings with built-in pedestrian door

Make your own mind up about our wide selection of different fittings that are available in stainless steel, aluminium or plastic.



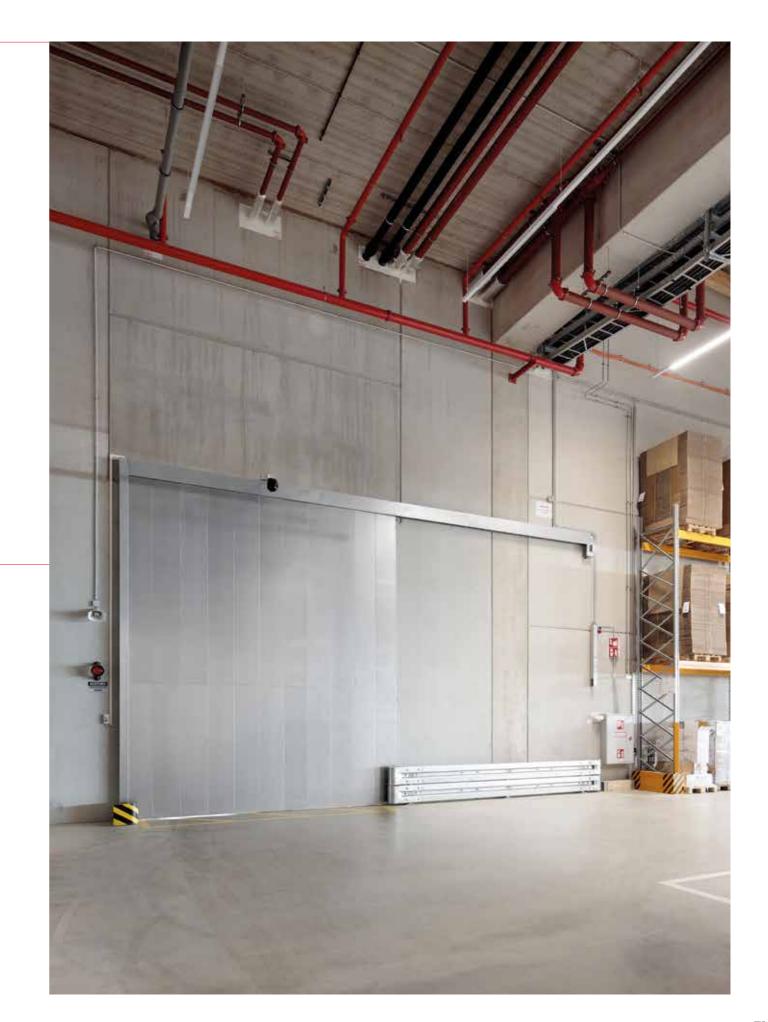


Shell handle with panic function as per EN 179 with built-in pedestrian door

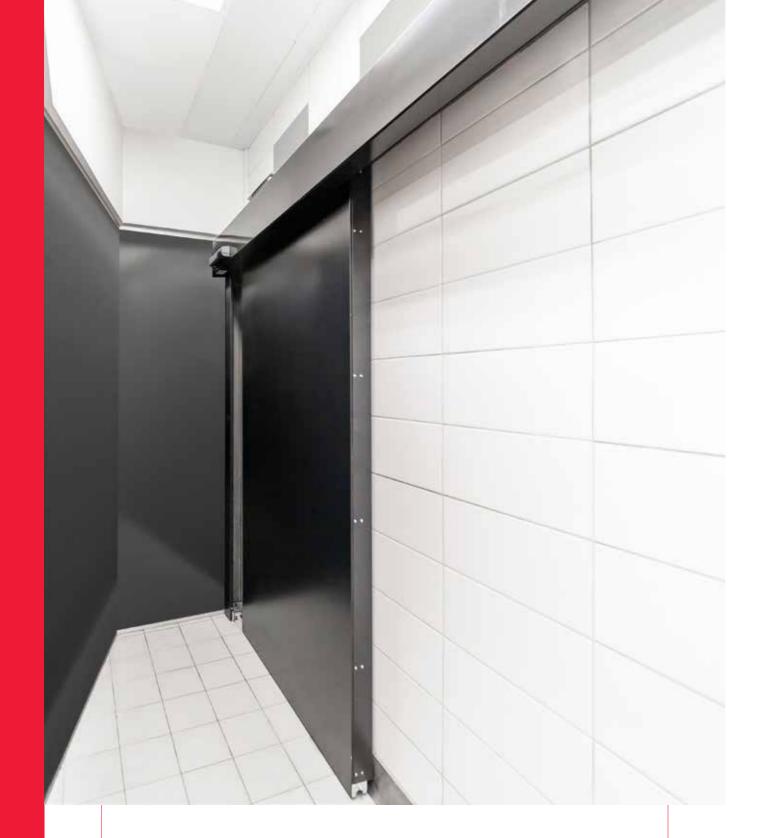
Push bar with built-in pedestrian door

Push bar with built-in pedestrian door





Facts



#### **Special features:**

- \_\_\_\_\_ Can be implemented in unrivalled sizes
- \_\_\_\_\_ Fast opening speed
- \_\_\_\_ C- to C5 self-closing
- Approved drives made by the following manufacturers:
  Assa Abloy, Ditec Entrematic, Dormakaba, Geze, Gilgen,
  GU BKS, Record, Reisinger and Tormax

optimised for the **restaurant trade** 

# **PENEDERrun**Behind the scenes

We recommend using PENEDERrun anywhere where fast opening is important. The elegant automatic gate stands out due to its impressive size and high-quality features including, for example, stainless steel surfaces with glass cut-outs or a built-in threshold-free pedestrian door including a panic handle.

PENEDERrun is approved for use with drives produced by many manufacturers and is suitable for people as well as goods and vehicle traffic. This means that the visually attractive automatic gate is mainly used in hospitals, supermarkets and restaurants.

#### Sizes (clearance)

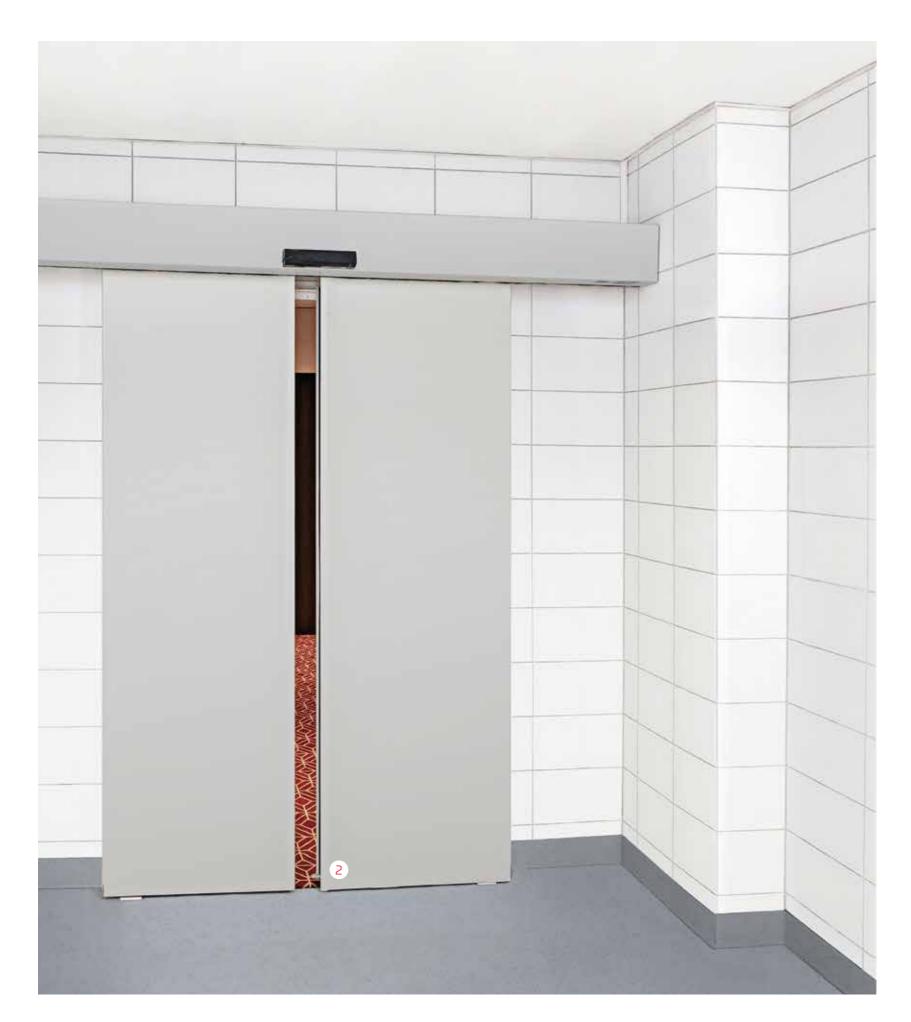
El<sub>2</sub>30-C\* up to 5,800 x 4,200 mm (max. 16.27 m²)

With the European CE mark according to EN 16034 and/or EN 13241

\* CO to C5 self-locking, depending on the version (Size, weight, etc.); actual sizes depend on the class, design and drive

	<b>run-00</b> single/double-leaf	<b>run-30</b> single/double-leaf
EI <sub>2</sub> 30 fire-retardant		✓
Escape and emergency routes in built-in pedestrian door	✓	<b>✓</b>
Surface made of stainless steel	✓	✓
Built-in pedestrian door	✓	✓
Glass cutout	✓	<b>✓</b>

Combination options depending on the size, class and version



# Behind the scenes



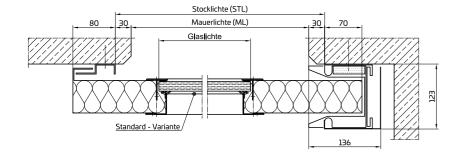
Single-leaf with portholeDouble-leaf

## **PENEDERrun**

# Sectional drawings (selection)

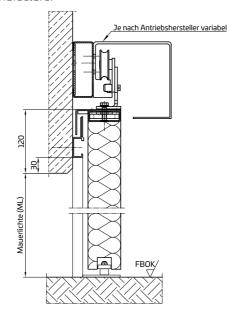
#### High-speed gate, single-leaf

with glazing, concrete wall



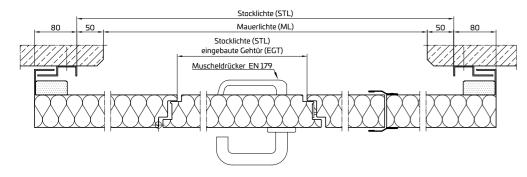
#### Installing drive supports

Dimensions vary depending on the drive manufacturer



#### High-speed gate, double-leaf

with built-in pedestrian door, concrete wall

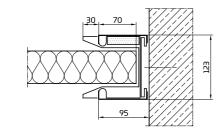


#### Installation variants of inlet profile



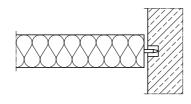
## Flush inlet

Concrete wall



#### Without inlet profile

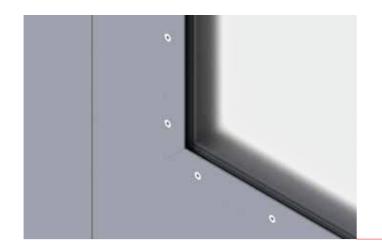
Concrete wall



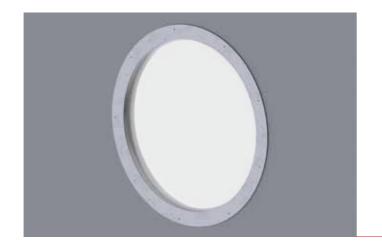


#### Glazing

Our range includes all shapes of glazing, which are always tailored to the individual requirements of our customers. Regardless of whether PENEDER glass cutouts in the element or the built-in pedestrian door are rectangular, circular or of special shapes, there are virtually no limits to their possible designs.



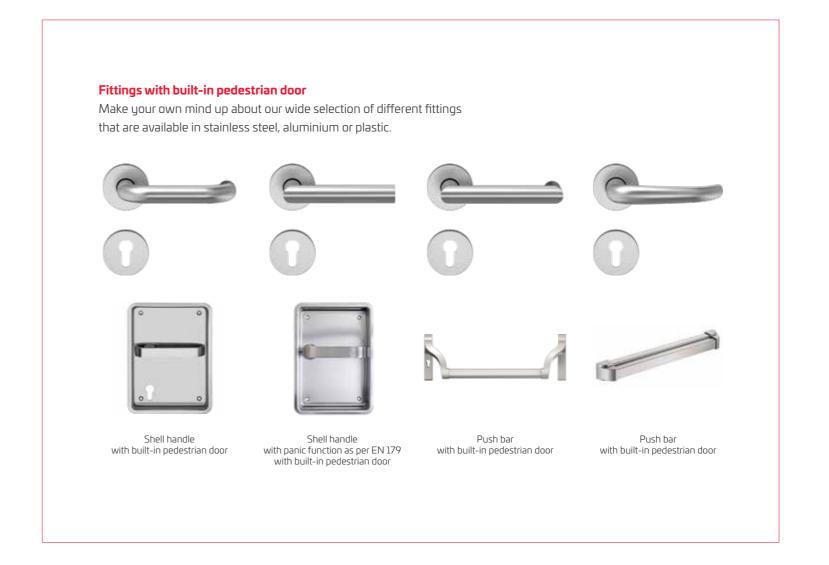
Glazing bar screwed flat on one side or both sides in stainless steel or powdercoated, choice of RAL colours



Glazing bar screwed flat on one side in stainless steel or powder-coated, choice of RAL colours

#### Door closers and hinges with built-in pedestrian door







#### Special features:

- Solid opening and closing
- Built-in pedestrian door possible
- Suspension chain developed in-house
- C2 self-closing

The perfect solution for **high-bay warehouses** 

## **PENEDERlift**

# With limited amounts of space

If there is not a lot of space at the sides, PENEDERlift is the perfect solution on industrial premises or in central storage facilities, for example. The high-quality lift gate is used with openings of 500 mm x 600 mm and above and is fitted with a suspension chain which we developed in-house which means that it closes precisely and without jerking. Closing is carried out either manually or automatically and is extremely quiet.

PENEDERlift is available as a fire- and/or smoke-protection gate. The lift gate is also available as the PENEDERlift extended telescopic version with a built-in threshold-free pedestrian door.

#### Sizes (clearance)

Width\* up to 16,000 mm Height\* up to 5,500 mm Gate surface\* up to 50 m<sup>2</sup>

With the European CE mark according

to EN 16034 and/or EN 13241

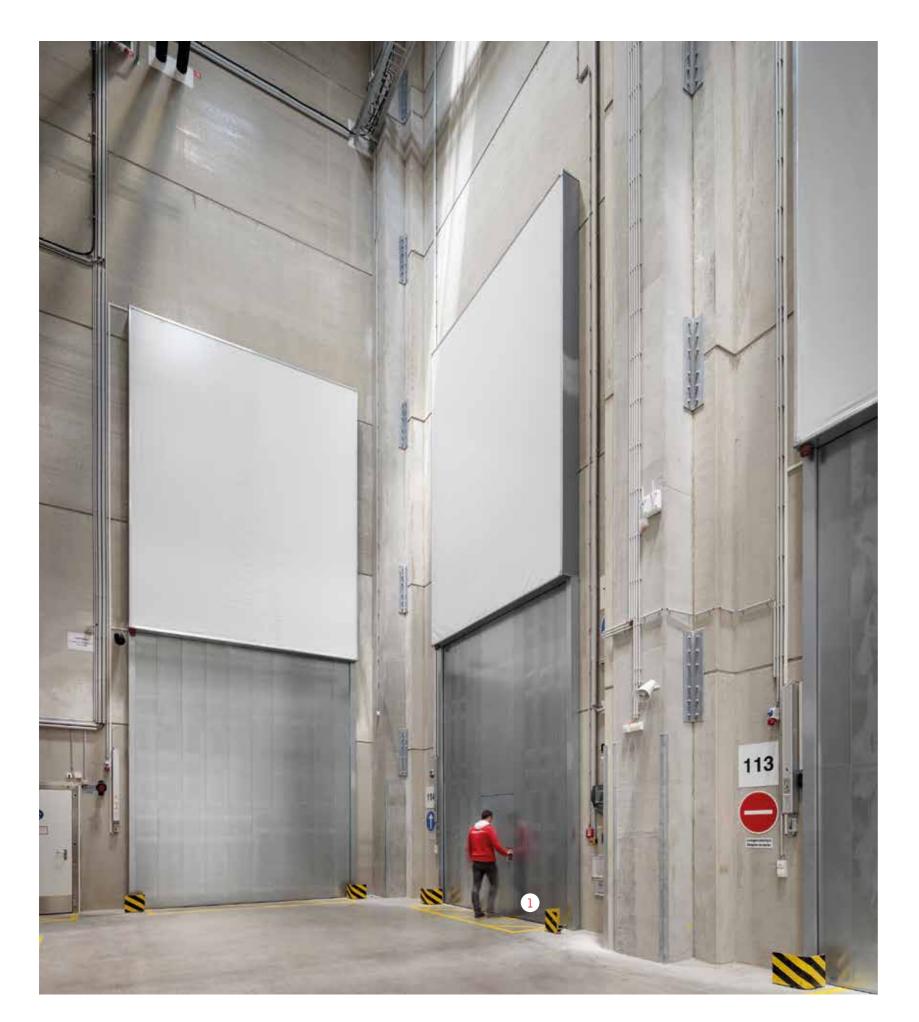
\* The actual sizes depend on the class and version

PENEDERlift	<b>lift-00</b> single-leaf	<b>lift-30</b> single-leaf	<b>lift-90</b> single-leaf	
El <sub>2</sub> 30 fire-retardant		<b>✓</b>		
El <sub>2</sub> 90 fire-resistant			<b>✓</b>	
S <sub>200</sub> smoke-shielding	<b>✓</b>	<b>✓</b>	<b>✓</b>	
Surface made of stainless steel	✓	<b>✓</b>	✓	
Glass cut-outs and built-in pedestrian door	✓	✓	✓	

Combination options depending on the size, class and version

PENEDERlift extended Telescopic version	lift ext-00 two-piece	lift ext-30 two-piece	lift ext-90 two-piece
El <sub>2</sub> 30 fire-retardant		✓	
90 El <sub>2</sub> 90 fire-resistant			<b>✓</b>
Surface made of stainless steel	✓	✓	<b>✓</b>
Glass cut-outs and built-in pedestrian door	✓	✓	✓

Combination options depending on the size, class and version



# Limited amounts of space





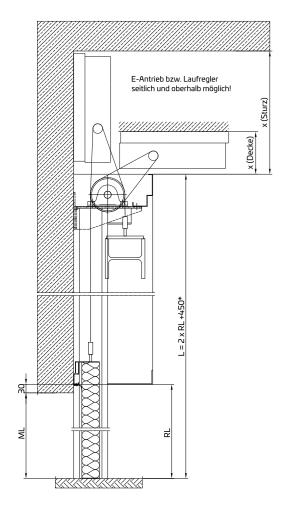


1 1-piece with pedestrian door2 2-piece with telescopic function

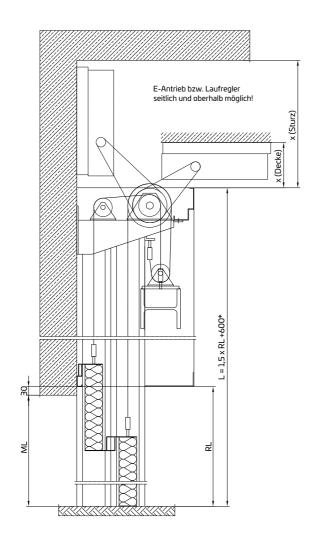
## **PENEDERlift**

# Sectional drawings (selection)

Lift gate with smoke protection



Telescopic lift gate



Door hinge, closer and shell handle with built-in pedestrian door

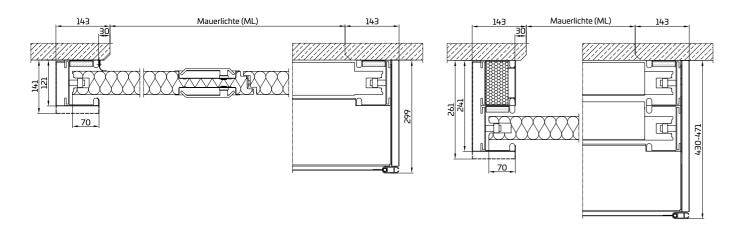




le hinges \_\_\_\_\_\_ Integrated door closer

\_\_\_\_\_Shell handle

**Lateral guide** of lift gate with smoke protection and built-in pedestrian door



Lateral guide of telescopic lift gate

Controls of gate leaf





Shell handle, powder-coated \_\_\_\_\_ Stainless steel shell handle

# Safety made from aluminium glass

Our elegant solutions made from aluminium and glass demonstrate how it is possible to interpret safety in an elegant architectural way.

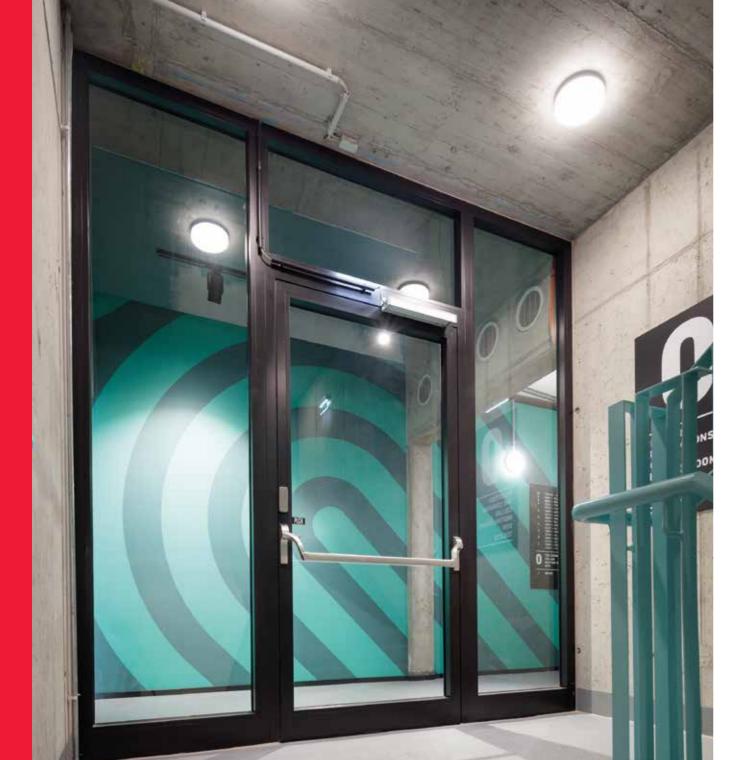
Doors integrate visually into any spaces, which means that they melt seamlessly into an attractive whole. This is safety at its most beautiful.



Manufacturing shop at the **Atzbach site** 







#### Special features:

- \_\_\_\_\_ Insulating glass outdoors (3-layer fire-resistant glass up to U 0.5 W/m²K)
- \_\_\_\_\_ Integrated or surface-mounted door check, automatic swing door drive possible
- \_\_\_\_\_ Integrated carry bar, can be used on a wide range of locks
- \_\_\_\_\_ Surfaces anodised, RAL, NCS, effect coating
- With panic exit device tested as per EN 1125 and EN 179
- \_\_\_\_ C5 self-closing

Fire compartment portal with panic bar

## **PENEDERtherm**

# Visual appeal meets functionality

PENEDERtherm is a thermally separated fire protection door for indoor and outdoor areas. This graceful all-purpose swing door is available with fire protection, smoke protection or anti-burglary protection. We also have available a wide range of additional designs like side panels and/or skylights as well as diagonal shapes, segment arches and special shapes, for example. PENEDERtherm can be used both as fixed glazing with an unlimited field width and as a mounted, cross-storey window façade, for example.

#### Internal doors (effective clear opening)

Single-leaf\* up to 1,458 mm x 3,000 mm

Double-leaf\* up to 2,858 mm x 3,000 mm

Leaf weight of El<sub>2</sub>30-C5 up to 250 kg possible

Leaf weight of El<sub>2</sub>60-C5/El<sub>2</sub>90-C5 up to 300 kg possible

#### External doors (effective clear opening)

Single-leaf\* up to 1,450 x 2,600 mm Double-leaf\* up to 2,851 x 2,600 mm Leaf weight of El<sub>2</sub>30-C5 up to 250 kg possible

#### Side panel/skylight

Glass width\* up to 1,586 mm Structure height\* up to 4,120 mm



**EXTERNAL DOORS:** With the European CE mark according to 14351-1 and/or EN 16034



**INTERNAL DOORS:** With Austrian certificate of registration according to ÖNORM B 3850/51

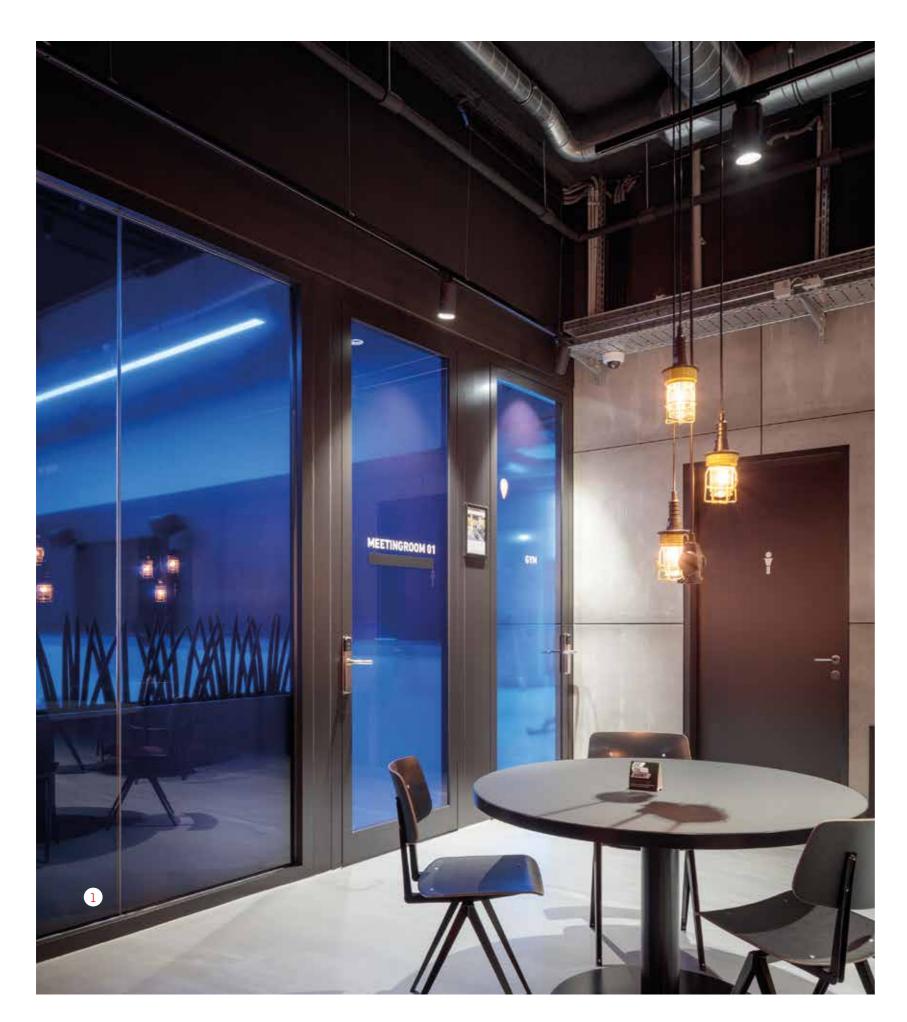
#### Fixed glazing

Infinite width\* possible Glass width\* up to 1,586 mm Structure height\* up to 5,000 mm

		therm-00 single/ double-leaf	therm-S single/ double-leaf	therm-30 single/ double-leaf	therm-60 single/ double-leaf	therm-90 single/ double-leaf	therm-fix fixed element
00	Without fire protection	<b>✓</b>					<b>✓</b>
30	El <sub>2</sub> 30 fire-retardant			<b>✓</b>			<b>✓</b>
60	El <sub>2</sub> 60 highly fire-retardant				<b>✓</b>		<b>✓</b>
90	El <sub>2</sub> 90 fire-resistant					<b>✓</b>	<b>✓</b>
<b>S</b> 200	S <sub>200</sub> smoke-shielding		<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	
(42)	Sound-insulating up to 42 dB	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	
RC2	RC2 anti-burglary protection		<b>✓</b>	<b>✓</b>			
×.	External door (CE)		<b>✓</b>	<b>✓</b>			
<b>4</b>	Escape and emergency routes	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	
	Skylight/side panel	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>		

Combination options depending on the size, class and version

<sup>\*</sup> The actual sizes depend on the class and version



# Visually appealing and functional





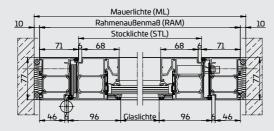


- El<sub>2</sub>30 fixed element with Nurglas joint
   Double-leaf lock door with panic bar
- 3 Divided skylight with segment arch

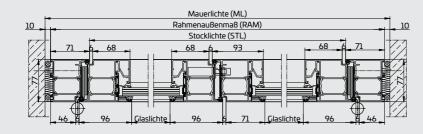
### **PENEDERtherm**

Horizontal sections (selection)

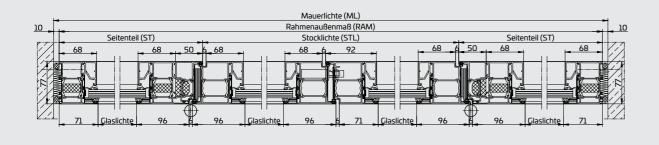
#### Single-leaf



#### Double-leaf



#### Double-leaf including side panels

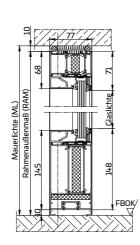


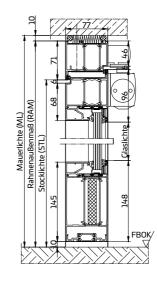
## Vertical sections (selection)

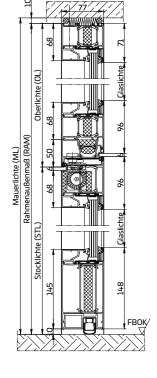
Fixed glazing

With surface-mounted door check and floor clearance

With the skylight, integrated door closer and lowerable floor seal









**3D profile section** PENEDERtherm



## **PENEDERlight**Transparent beauty for indoors

PENEDERlight is an elegant fire protection door for indoor areas. This high-quality swing door is available with side panels and/ or skylights as well as diagonal shapes, segment arches and special shapes. Apart from this, it is available as a smoke protection version, which you can use with fixed glazing with an unlimited field width.

#### Sizes (effective clear opening)

Width\* single-leaf up to 1,350 mm Width\* double-leaf up to 2,500 mm Height\* up to 2,500 mm

#### Weight of leaf

Up to 190 kg possible

#### Side panel/skylight

Glass width of single- and double-leaf up to 1,284 mm Structure height up to 3,200 mm

#### Fixed glazing

Infinite width possible Glass width up to 1,284 mm Structure height up to 3,200 mm



**INTERNAL DOORS:** With Austrian certificate of registration according to ÖNORM B 3850/51



**FIXED GLAZING:** With Austrian certificate of registration according to the basic usage guideline of the Austrian Institute of Construction Engineering (OIB) Fire-resistant glazing

#### Special features:

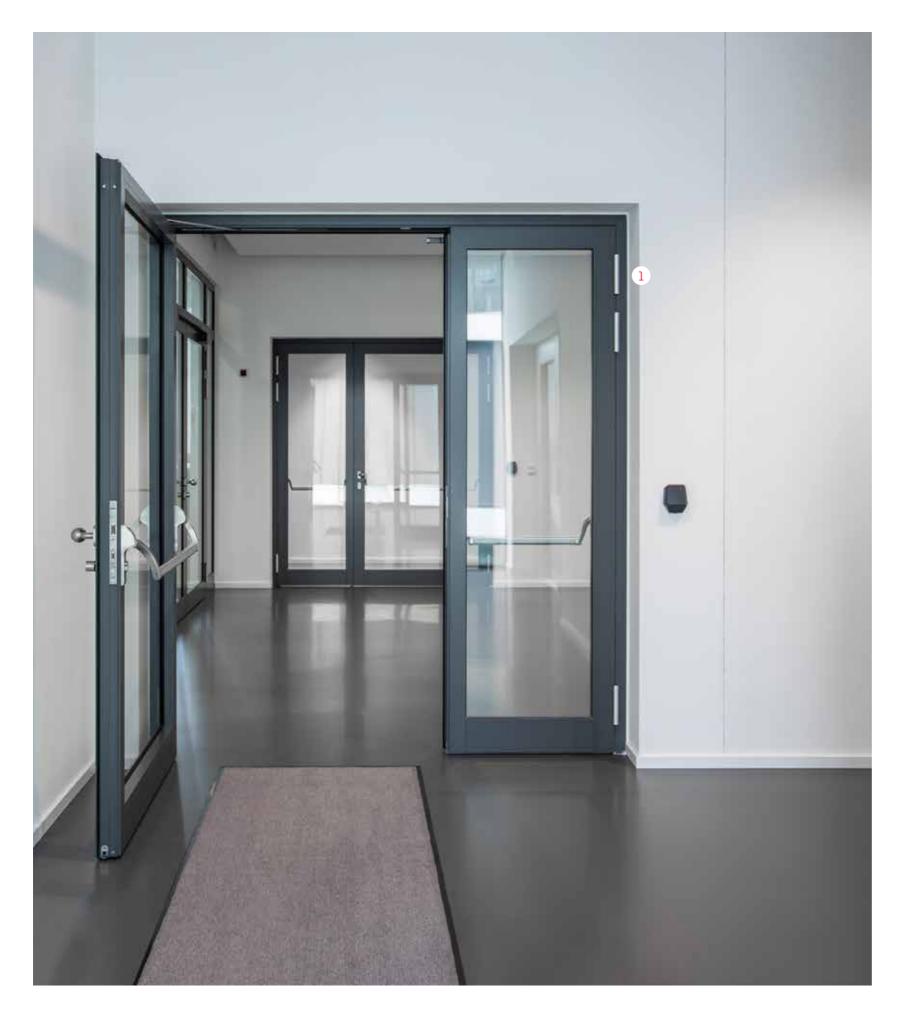
- Surface-mounted door check, automatic swing door drive possible
- Integrated carry bar, can be used on a wide range of locks
- Surfaces anodised, RAL, NCS or effect coating
- S<sub>200</sub> with property-related assessment only
- With panic exit device tested as per ÖNORM EN 1125 and ÖNORM EN 179

Double-leaf Fixed leaf can be opened by 180° with external retaining magnets

	light-30 light-fix single/double-leaf fixed element	
E30 fire-retardant	✓	✓
EW30 fire-retardant	✓	<b>✓</b>
S <sub>200</sub> smoke-shielding	<b>√</b> *	
Escape and emergency routes	✓	
Skylight/side panel	✓	

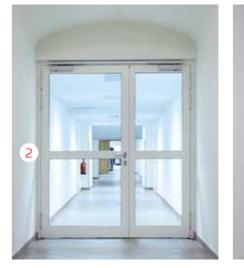
Combination options depending on the size, class and version

\* With property-related assessment only



## Beauty for indoors



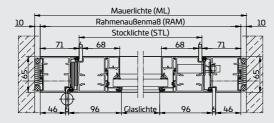




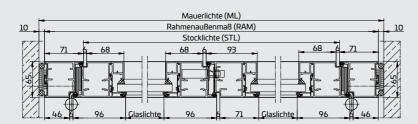
- Glass divided horizontally
- 3 Side panel and skulight

**PENEDERlight**Horizontal sections (selection)

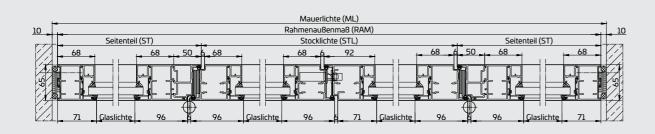
Single-leaf



#### Double-leaf



#### Double-leaf including side panels

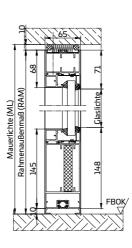


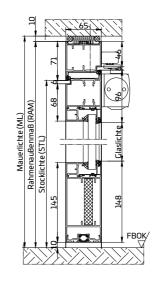
## Vertical sections (selection)

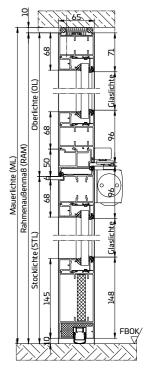
Fixed glazing

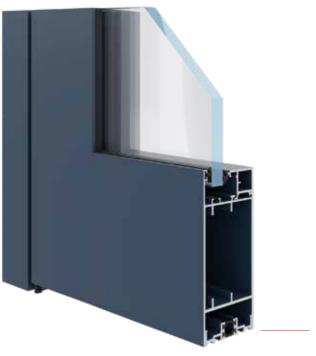
With surface-mounted door check and floor clearance

With skylight, surface-mounted door check and lowerable floor seal

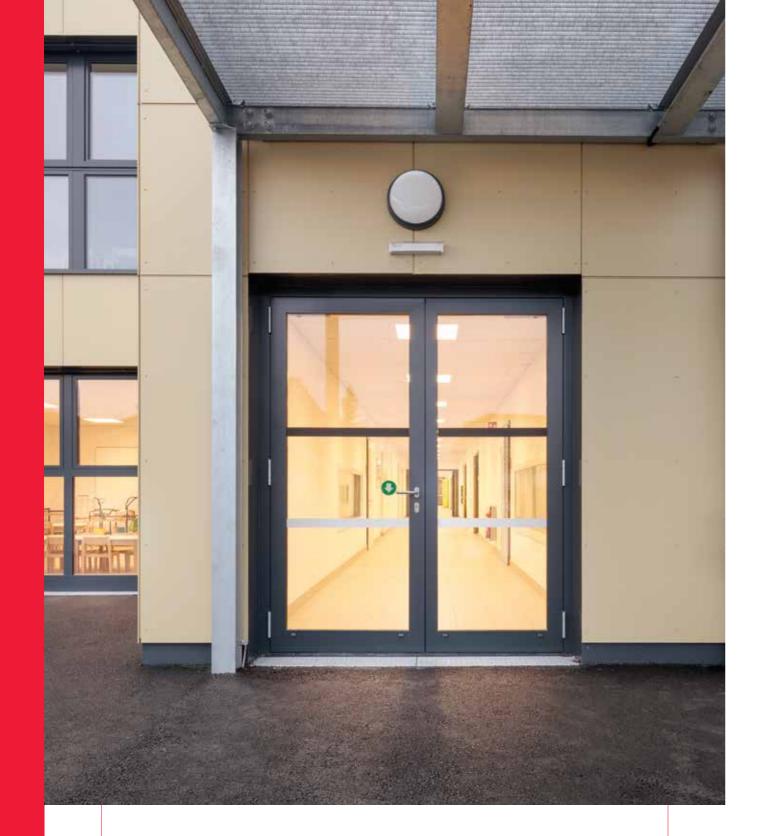








**3D profile section** PENEDERlight



\_\_\_\_ High level of thermal insulation for outdoor areas

With anti-burglary protection as per EN 1627

Surfaces anodised, RAL, NCS and effect coating

Also possible as a tilt and turn window

Disabled-acce ssible threshold

Double-leaf with **RC3 anti-burglary protection** 

## **PENEDERpro**Insulates and protects

PENEDERpro is a high-quality frame door made from aluminium for use in outside areas. It has a high level of thermal insulation and an excellent U-value. The PENEDERpro is available in a wide range of designs, including hidden door hinges, for example. Side panels and skylights as well as many other design elements are possible like round arches, decorative mullions or chamfering. In addition to this, you can use PENEDERpro as fixed glazing.

#### Sizes

The possible sizes are determined by the structural design, necessary wind, air and water values or the glass size.



With the European CE mark according to EN 14351-1

-acts -

#### Weight of leaf

Up to 250 kg possible

#### **U-values**

Door up to 1.3 W/m<sup>2</sup>K Window up to 0.86 W/m<sup>2</sup>K Fixed element up to 0.6 W/m<sup>2</sup>K

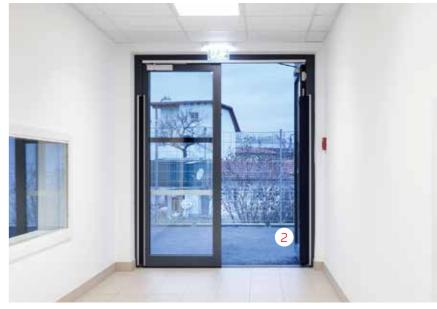
	<b>pro-00</b> single/double-leaf	pro-00 tilt and turn window	<b>pro-00</b> fixed element
Without fire protection	<b>✓</b>	<b>✓</b>	<b>✓</b>
Sound-insulating up to 42 dB	✓		
RC2 anti-burglary protection	✓	✓	
RC3 anti-burglary protection	✓	✓	
CE external application	✓	<b>✓</b>	
Escape and emergency routes	<b>✓</b>		
Skylight/side panel	✓	<b>✓</b>	

Combination options depending on the size, class and version



# Insulates and protects



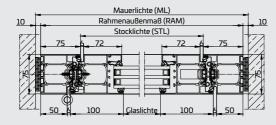


Aluminium portal with tilt and turn window

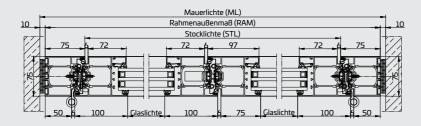
2 Double-leaf emergency exit function on the active door lea

**PENEDERpro**Horizontal sections (selection)

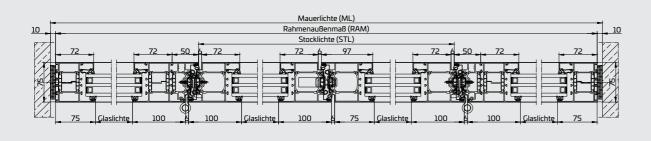
Single-leaf



#### Double-leaf



#### Double-leaf including side panels

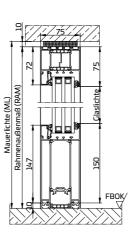


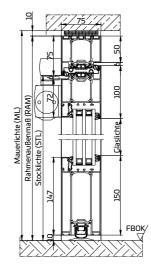
## Vertical sections (selection)

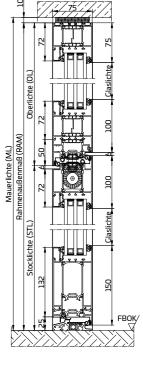
Fixed glazing

With surface-mounted door check and floor seal

With skylight, integrated door closer and thermally separated ground sill









3D profile section



- \_\_\_\_\_ Non-insulated aluminium door or fixed glazing
- Surfaces anodised, RAL, NCS or effect coating
- Emergency exit door systems as per EN 1125 and EN 179

Plain office entrance door with entry control

## **PENEDERbasic**The classical room closure

PENEDERbasic is a simple frame door for special applications or indoor ones, like porches or winter gardens, for example. It is possible to combine the relatively light frame door with side panels and a skylight as well as to use it as fixed glazing.

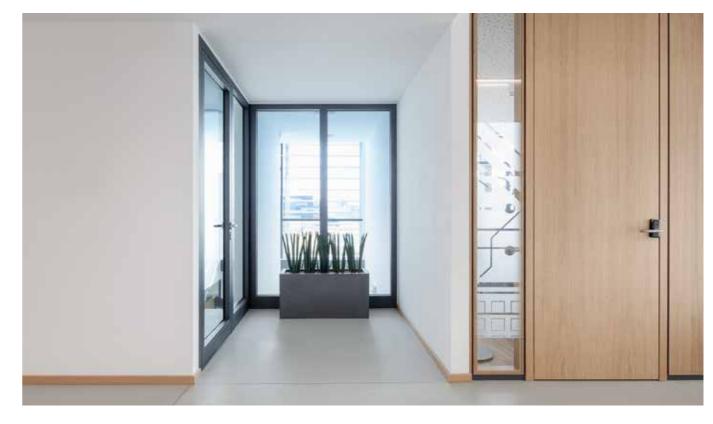
#### Sizes (effective clear opening)

Up to 1,300 mm width and 2,200 mm height or 1,100 mm width and 2,300 mm height

#### Weight of leaf

Up to 170 kg possible

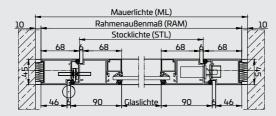
	<b>basic-00</b> Single/double-leaf	<b>basic-00</b> Fixed element
Without fire protection	✓	✓
Escape and emergency routes	✓	
Skylight/side panel	✓	



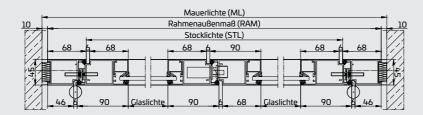
### **PENEDERbasic**

Horizontal sections (selection)

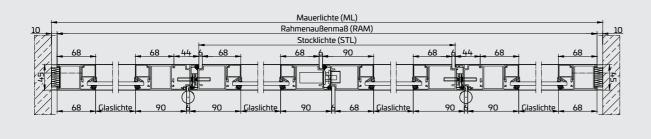
#### Single-leaf



#### Double-leaf



#### Double-leaf including side panels

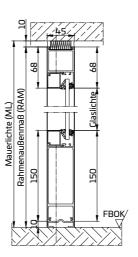


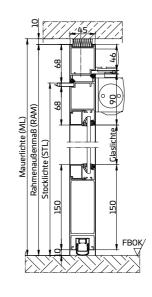
## Vertical sections (selection)

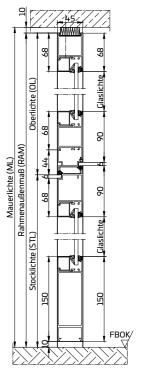
#### Fixed glazing

With surface-mounted door check and lowerable floor seal

With skylight

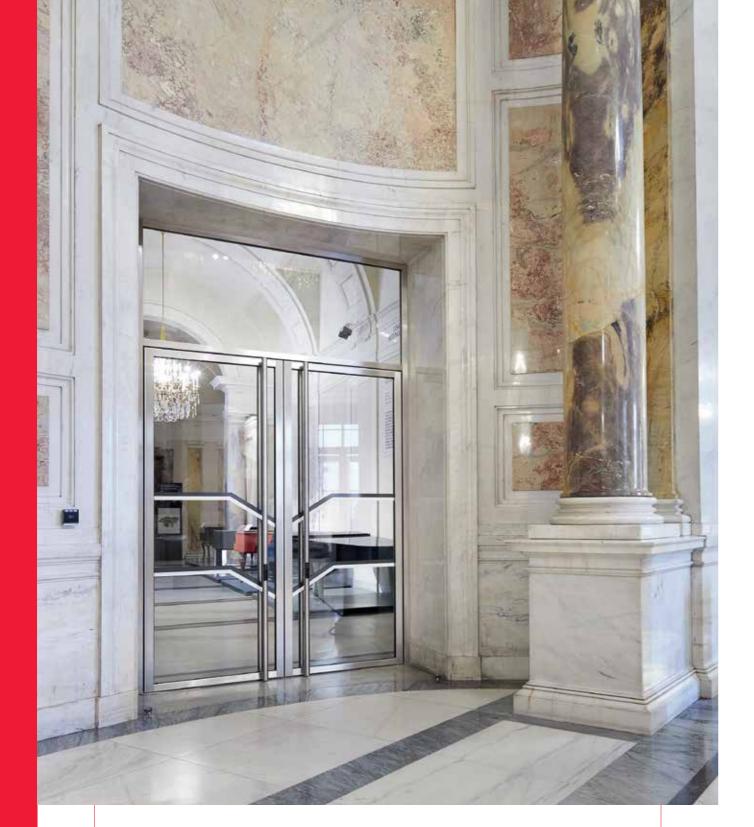








**3D profile section**PENEDERbasic



\_\_\_\_\_ No visible glazing bars, glass is in the middle in the rebate

Can be combined with PENEDERnurglas side panels and skylight (El<sub>2</sub>60)

Surfaces anodised, RAL, NCS, effect coating or stainless steel

Tested as per ÖNORM EN 1634-1, approved as per ÖNORM B 3850

\_\_\_\_ Alignment possible in both directions of opening

Double-leaf **Stainless steel version** 

## **PENEDERstrong**Extravagant protection

PENEDERstrong is a high-quality swing door with fire protection for use in indoor areas. It is used wherever people need to pass through quickly, like in hotel lobbies or museums, for example. Profile frames are available in a wide variety of different colours or in stainless steel, the glazing bars are not visible. It is possible to open PENEDERstrong in both directions without an end stop and you can combine it with PENEDERnurglas side panels and skylights as well as using it as fixed glazing with fire protection in indoor areas.

#### Sizes (effective clear opening)

Width double-leaf up to 2,200 mm<sup>1)</sup>/2,530 mm<sup>2)</sup> Height up to 2,700 mm<sup>1)</sup>/2,645 mm<sup>2)</sup>

1) EI<sub>2</sub>30-C5

<sup>2)</sup>EI<sub>2</sub>60-C5

With Austrian certificate of registration according to ÖNORM B 3850

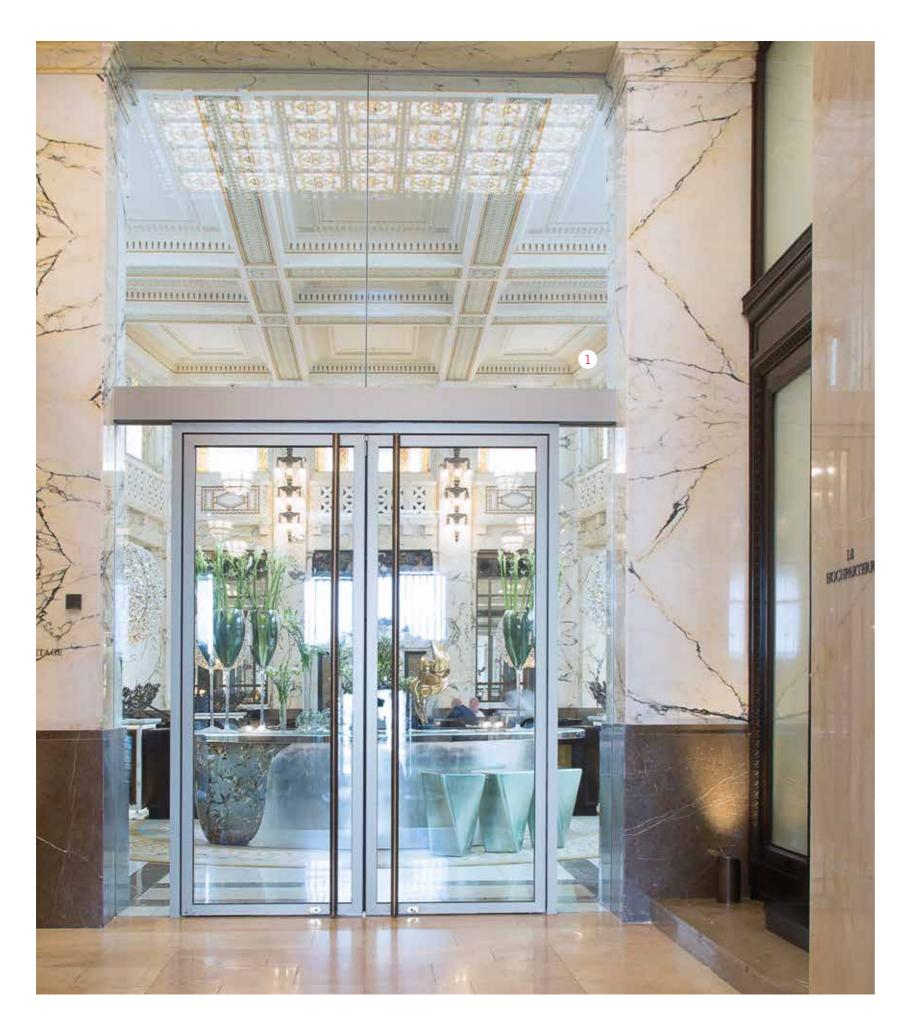
Facts .

#### Side panel/skylight

Version with PENEDERnurglas or frame structure possible on request

	strong-00 Single/double-leaf	<b>strong-30</b> Double-leaf	<b>strong-60</b> Double-leaf
Without fire protection	<b>✓</b>		
EI <sub>2</sub> 30 fire-retardant		✓	
60 El <sub>2</sub> 60 highly fire-retardant			<b>✓</b>
Escape and emergency routes	✓	✓	<b>✓</b>
Skylight/side panel PENEDERnurglas	✓		✓

Combination options depending on the size, class and version



# Extravagant protection

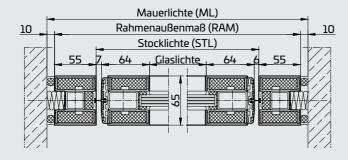




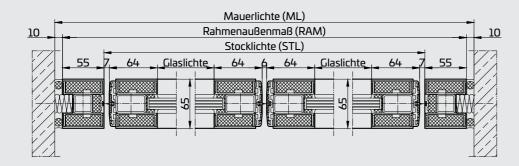
1 PENEDERnurglas skylight2 Glass foliation B1600

**PENEDERstrong**Horizontal sections (selection)

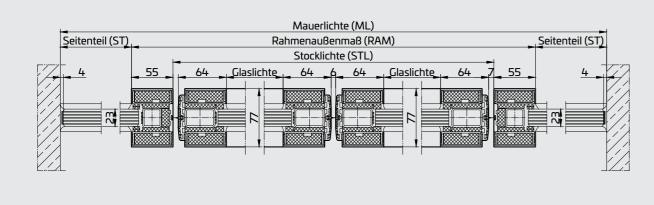
#### Single-leaf



#### Double-leaf

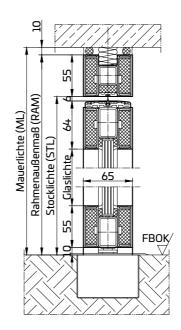


#### Double-leaf including side panels

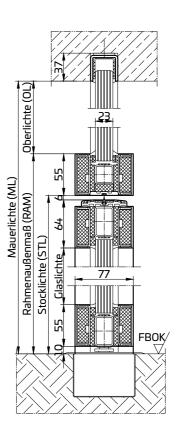


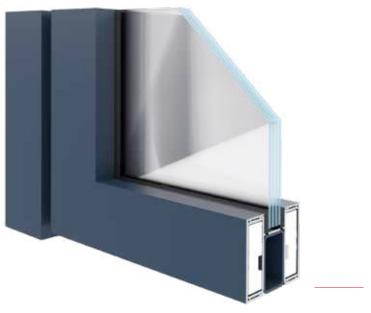
## Vertical sections (selection)

#### With floor spring



#### With PENEDERnurglas skylight





## **Swing door** Versions

#### Leaf fillings





Glass filling with foliation by image: B1600



Panel filling

#### **Building hinges**





Screw-fastened door hinge

#### Door locking systems



Slide rail door closer



Integrated door closer



Anti-panic keep



## **Swing door** Versions

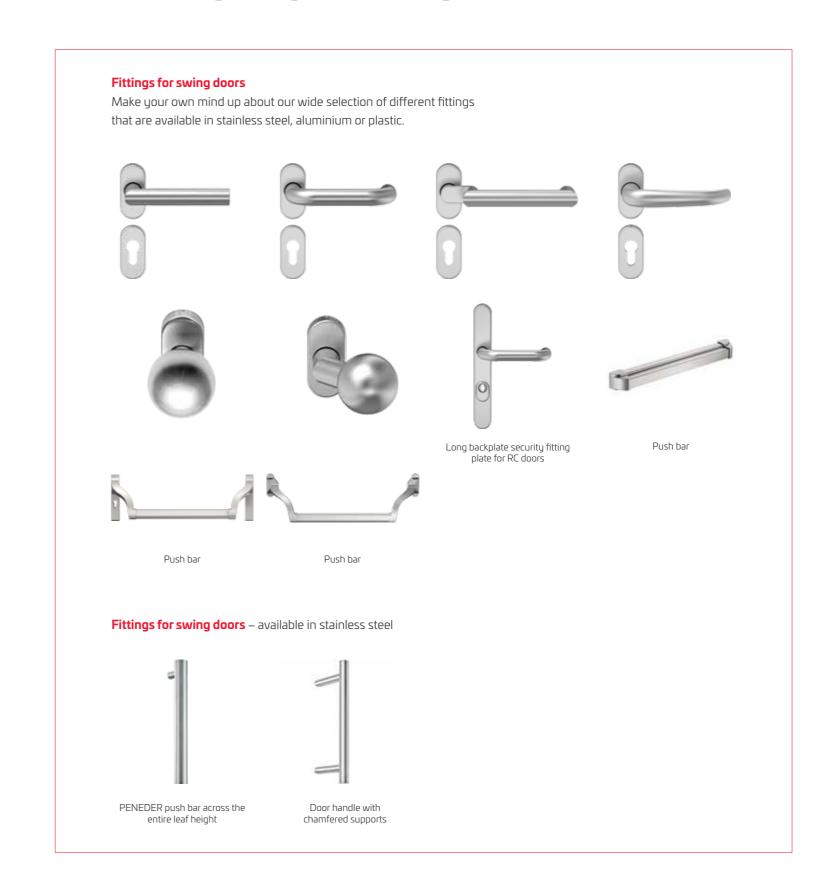
Glass filling



Glass filling with foliation



## Fittings Rotating wing and swing door selection





- Width can be expanded as far as you like
- Wall ending with butt joint or profile
- No visible fixing profiles (installed flush or embedded in the plaster)
- Can be combined with PENEDERstrong swing door and PENEDERwood
- Tested as per ÖNORM EN 1364-1 and approved with ÜA mark
- fire protection classes E30 and E60 on request

## **PENEDERnurglas**Pure elegance

PENEDERnurglas is frameless fixed glazing whose visual appeal and function perfectly complement PENEDER swing doors. The unique fixed glazing with its unlimited field width provide a particularly elegant and attractive effect. This is fire protection at its most elegant.

#### Sizes (external frame dimensions)

Unlimited field width Field height max. 2,800 mm



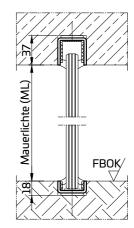
With Austrian certificate of registration according to the basic usage guideline of the Austrian Institute of Construction

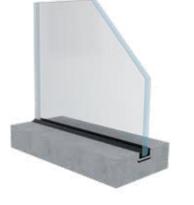
Engineering (OIB) Fire-resistant glazing

	nurglas-30	nurglas-60
El30 fire-retardant	✓	
El60 highly fire-retardant		✓

#### Horizontal section

#### Vertical section







- \_\_\_\_\_ Installation angle of 0° to 15°
- \_\_\_\_\_ Aluminium profile with steel core
- Surfaces anodised, RAL, NCS and effect coatings
- Wall ending on structural steel, concrete, and timber structures possible at
- Must not be exposed to weathering, installation under protective elements or in an interior space

Horizontal fire-resistant glazing

### **PENEDERhorizontal**

### For natural room illumination

PENEDERhorizontal is installed in the ceiling under light domes and light runs to reach the specified fire-resistance class with horizontal fire compartments and to make possible natural lighting in the room. PENEDERhorizontal is particularly suitable for large glass surfaces and for retrofitting with refurbishing projects.

#### Sizes

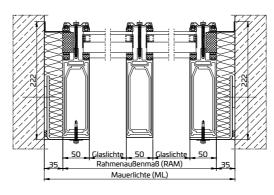
Max. post spacing 1,000 mm (infinitely buildable) Max. elongation value 2,700 mm

Fire-resistance class REI30

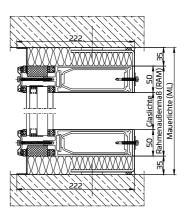


With Austrian certificate of registration according to the basic usage guideline of the Austrian Institute of Construction Engineering (OIB) Fire-resistant glazing

#### Horizontal section



#### Vertical section





Weather protection due to light dome



3D profile section

# Fire protection made of wood

Our wooden fire protection doors are presented with natural safety of artisan quality. The surfaces are as multifaceted as the material itself. There are no limits to the design options.







- \_\_\_\_ Wooden and steel frames
- \_\_\_\_\_ Frames for flush-mounted or rebated door leaves
- \_\_\_\_\_ Door leaves and frames from a single source
  - High-quality building hinges and fittings
- Any commercially available closers and fittings that have been tested for fire resistance
- \_\_\_\_ Fire resistance-tested electronic access and entry control systems, like fingerprint door openers, for example

Wooden door leaf with steel frame

### **PENEDERwood**

## Safety and design made from wood

Every wooden fire protection door is a unique item of artisan quality. The surfaces are multifaceted; however, PENEDER's tried and tested quality is always inside. Various types of frames, numerous surface variants, glazing, combinations of side panels and top sections in addition to flexibility in the external geometry make possible virtually any design.

#### Door leaf

- \_\_\_\_\_ 50 mm and 66 mm wooden door leaf with stable solid wood edging and fire protection filling
- Surfaces veneered, painted, foliated or with laminate coating
- Upholstery and artistic decoration of all types, like milling, decorative strips, carvings, cassettes, infill finishes, for example and much much more.
- \_\_\_\_\_ Glass cut-outs in any possible shapes

#### Steel frame

Block frame, corner frame, closed frame or refurbishment frame

#### Sizes

Width single-leaf up to 1,250 mm Width double-leaf up to 2,350 mm Height: up to 2,350 mm

Surface: Single-leaf up to 2.93  $\,\mathrm{m}^2$ ; double-leaf up to 5.52  $\,\mathrm{m}^2$ 

Glazing: up to 1.87 m<sup>2</sup> per leaf (Minimum frieze width: 150 mm)



With Austrian certificate of registration according to ÖNORM B 3850/51

according to ÖNORM B 3850/51

#### Wooden frame

- Casing frame, closed frame or corner frame
- Wide range of solid or glazed side panels or top sections possible
- Curved elements possible
- Can be installed in endless PENEDERnurglas wall,
  PENEDERnurglas connection with skylight too
- \_\_\_\_\_ Covered hinges and closers

#### Sizes:

Width single-leaf up to 1,320 mm (with side light/side panel up to 4,500 mm)

Width double-leaf: up to 2,645 mm

(with side light or side panel up to 5,700 mm)

Height: up to 2,700 mm

(with side light/side panel up to 3,130 mm)

Surface: Single-leaf up to 3.31 m<sup>2</sup>; double-leaf up to 6.62 m<sup>2</sup>

Glazing: up to 1.87 m<sup>2</sup> per leaf (Minimum frieze width: 150 mm)

		wood-00 Wooden frame single/double-leaf	wood-30 Wooden frame single/double-leaf	wood-00 Steel frame single/double-leaf	wood-30 Steel frame single/double-leaf
30	El <sub>2</sub> 30 fire-retardant		<b>✓</b>		<b>✓</b>
<b>4</b>	Escape and emergency routes	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
	Stainless steel frame plate			<b>✓</b>	<b>✓</b>
	Top section/skylight	<b>✓</b>	<b>✓</b>		
	Side panel/side light	<b>✓</b>	<b>✓</b>		
	Glass cutout	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>

Combination options depending on the size, class and version

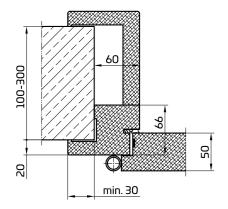
### **PENEDERwood**

## Sectional drawings (selection)

#### Wooden frame

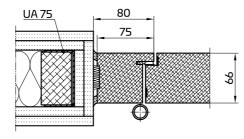
#### Corner frame/closed frame

rebated



#### Block frame

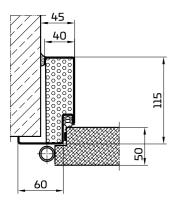
flush-mounting on both sides



#### Steel frame

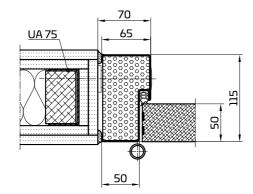
#### Corner frame

rebated



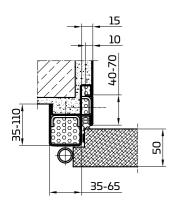
#### Block frame

flush-mounted

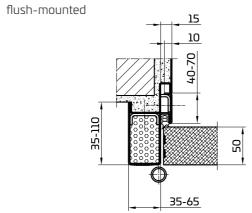


#### Refurbishment frame

rebated



#### Refurbishment frame





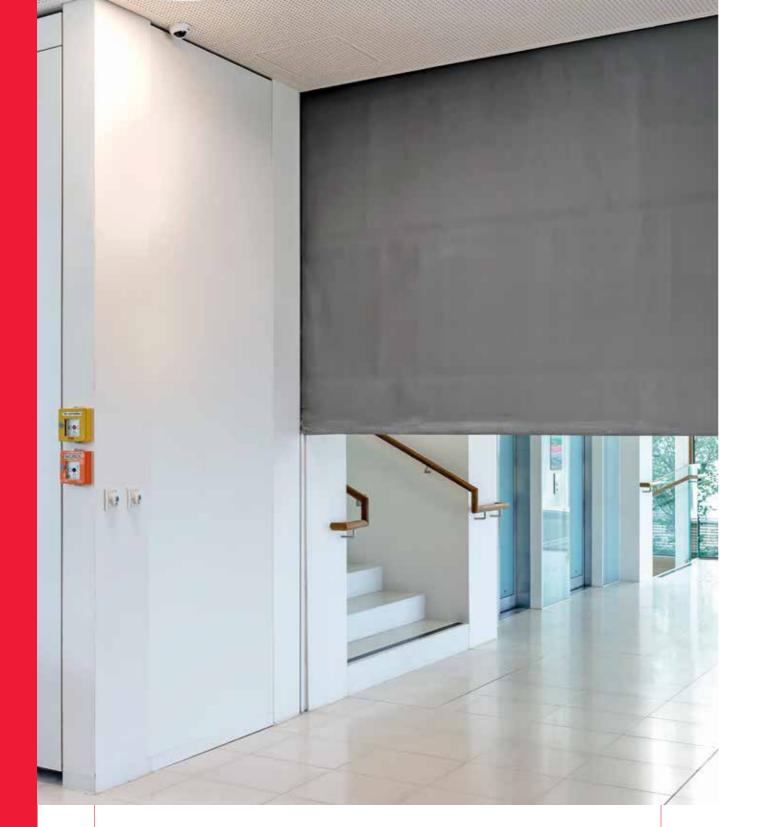
# **Textile**protection

Fire prevention curtains and smoke aprons are predestined for use as safe closures for large openings.

This invisible protection has the most flexible function due to its low weight and wide range of application options.







- \_\_\_\_\_ Safe closure for large openings
- \_\_\_\_\_ Flexible installation options
- Excellent thermal radiation limitation in TFF-EW classes (only 1.43 kW/m² after 90 minutes of the permitted 15 kW/m²)
- \_\_\_\_\_ Adaptable housing surface:
  - Visible parts available in all colours similar to RAL or stainless steel

Integrated guide rail and housing

### **PENEDERtextil**

### Textile fire and smoke protection

**TFF** (Textile Flexible Fire Protection Curtain): This innovative fire prevention curtain made for wire-reinforced glass filament fabric ensures fire-resistant sealing over a wide area. The TFF is used to seal off openings in walls. It is also suitable for use as sectional protection with machines or in warehouse areas, for example.

**TFR** (Textile Flexible Smoke Apron): Smoke aprons are used primarily in limiting smoke development in defined areas. In case of fire, the spread of smoke is limited, the smoke that has developed is directed to extractors. Depending on the application, you can implement rigid, flexible or space-enclosing versions of the smoke apron with lateral guide rails.

#### TFF-E/-EW

E30-C2 to E120-C2, with optional smoke protection  $\rm S_{200}$  EW30-C2 to EW90-C2, with optional smoke protection  $\rm S_{200}$ 

System width: 900 mm to 12,000 mm Run length: 300 mm to 7,000 mm

Surface: max. 60 m<sup>2</sup>

Max. size with smoke protection  $S_{200}$ : 2,800 mm x 3,000 mm

#### TFF-EI

El<sub>2</sub>30-C to El<sub>2</sub>60-C

TFF-El<sub>3</sub>30 (max. effective clear opening)

Height: 4,810 mm Width: 6,565 mm Surface: 31.5 m<sup>2</sup>

TFF-El<sub>3</sub>60 (max. effective clear opening)

Height: 3,060 mm Width: 4,010 mm Surface: 12.27 m<sup>2</sup>

#### **Version details**

\_\_\_\_ Extensive sealing off, suitable for wall openings and façades

\_\_\_\_\_ Vertical closure

Low weight per running metre of opening width

Low space requirement ideal for retrofitting
 e.g. with protection of historic buildings

and monuments



**TFF-E/-EW & -EI:** With the European CE mark according to EN 16034 and/ or EN 1324-1



**TFR:** With the European CE mark according to EN 12101-1

#### TFR

Classification for smoke aprons
(applies to loading of 30 to 120 minutes):
DA (tested up to 600°)
DHA (tested up to 1100°, deployment for more demanding requirements)

#### Sizes

Width: max. up to 50 m Height: max. up to 14 m

#### Version details

\_\_\_\_\_ Large system widths

Design freedom: good integration in architectural specifications, open room design

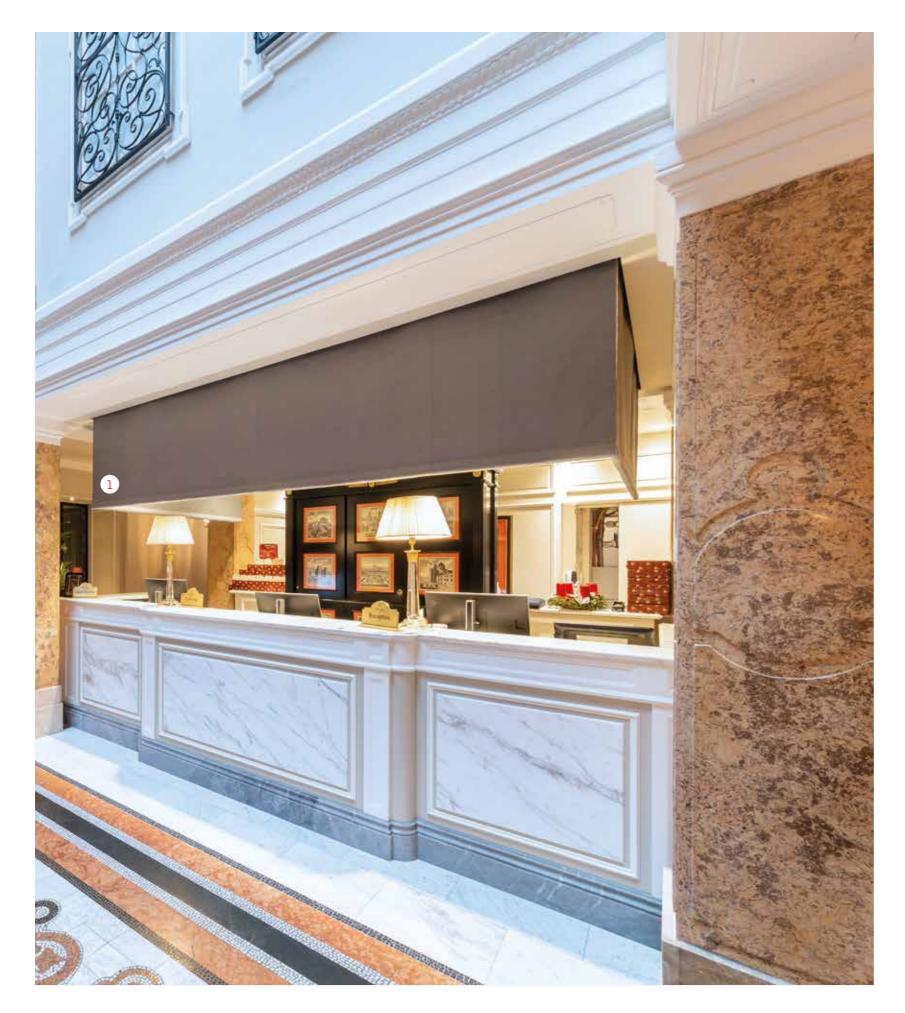
Low weight: only 25 kg per running metre of opening width

Low space requirement

\_\_\_ Ideal for retrofitting with protection of historic

buildings and monuments

Optimisation of the HSVS



## Hidden safety



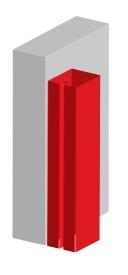


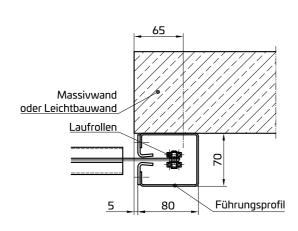
- Textile smoke apron
- Pushbutton
- 3 Wall mounting of housing and guide ra

## TFF-E/-EW and TFR

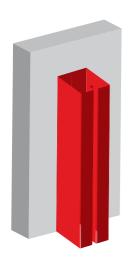
## Installation variants of guide rail

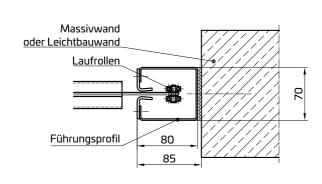
#### Wall-mounted lateral guide



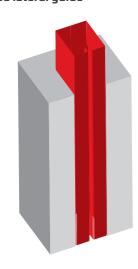


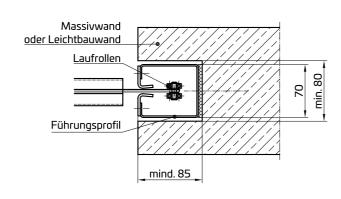
Reveal-mounted lateral guide





Niche-mounted lateral guide

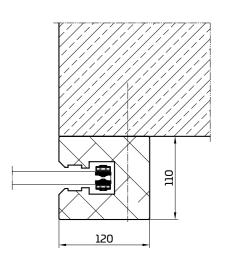




## **TFF-EI**Installation variants of guide rail

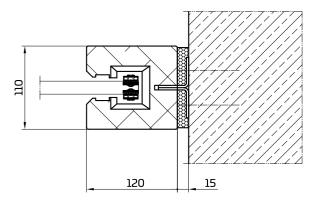
Wall-mounted lateral guide



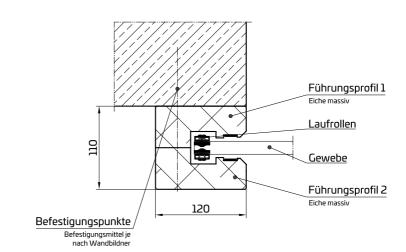


Reveal-mounted lateral guide





#### Detail version of guide rail

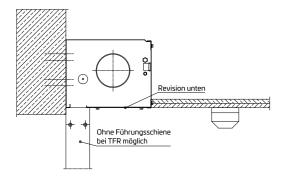


### TFF-E/-EW and TFR

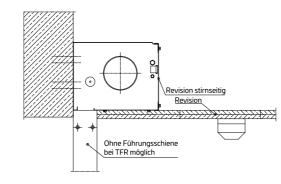
### Installation variants of housing

#### Wall-mounted variant

#### Housing visible from below

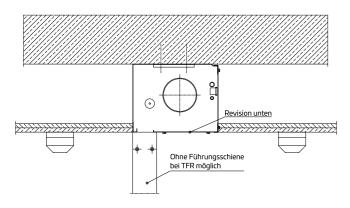


#### Housing not visible in suspended ceiling

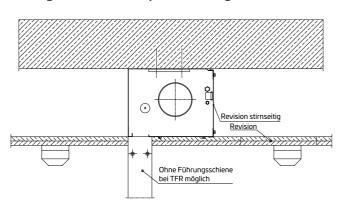


#### Direct ceiling mounting

#### Housing visible from below

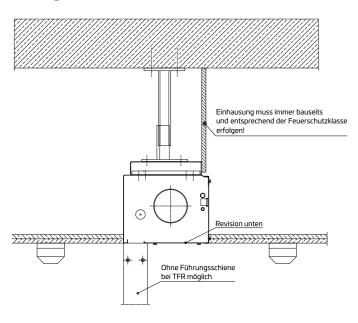


Housing not visible in suspended ceiling

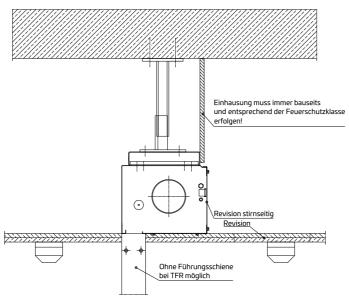


#### Suspended ceiling-mounted

#### Housing visible from below

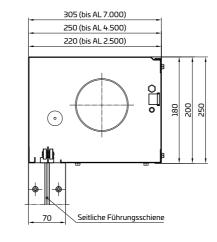


Housing not visible in suspended ceiling

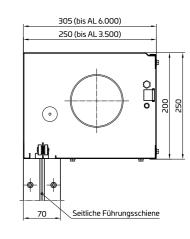


#### Housing dimensions

#### Dimensions of TFF-E/TFR

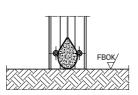


#### Dimensions of TFF-EW/TFR



#### **Baseboards**

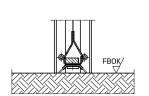
Granulate bag



End trim



End trim with smoke protection S<sub>200</sub>

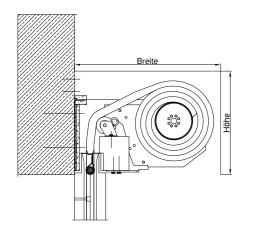




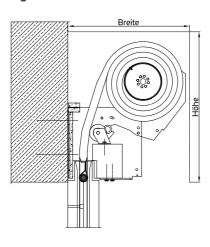
## **TFF-EI**Installation variants of housing

#### With no housing

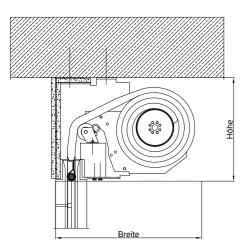
#### Wall-mounting V1



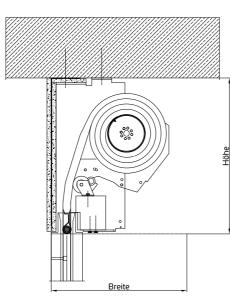
Wall-mounting V2



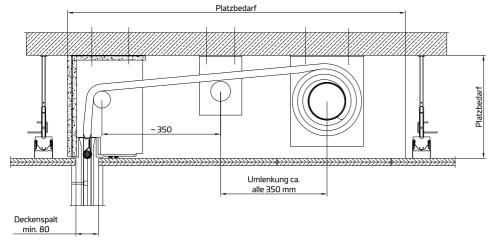
Ceiling mounting V1



Ceiling mounting V2



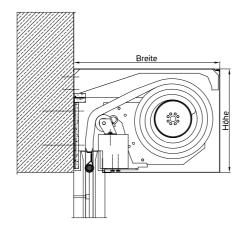
Special solution for installation in suspended ceilings



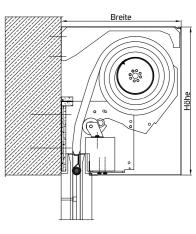
Platzbedarf abhängig von Ablauflänge und zur Verfügung stehender Einbauhöhe (je geringer die Einbauhöhe, desto breiter ist der erforderliche Platzbedarf).

#### With housing

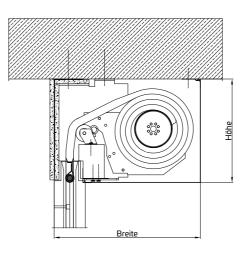
#### Wall-mounting V1



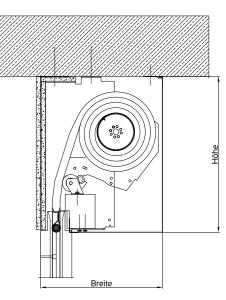
Wall-mounting V2



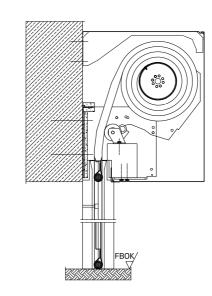
Ceiling mounting V1



Ceiling mounting V2

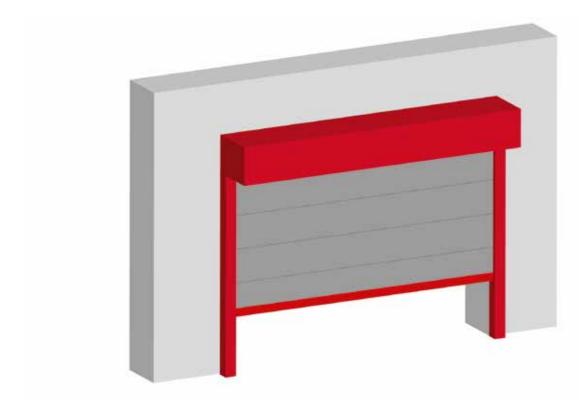


#### Baseboard



## **TFF-E/-EW and -EI**3D model wall mounting

TFF-E/-EW



TFF-EI



