



## General brochure 2016





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## PRESENTATION - THE RELIABILITY OF EXPERIENCE

Ninz S.p.A. is Italy's leading producer of fire doors with a 70% market share. Consolidated experience in the sector, familiarity with standards and optimal quality-price ratios are the company's most distinguishing features. Over the years it has broadened its offer to include multipurpose metal doors and a wide range of accessories. In addition to Italy, Ninz S.p.A. also markets its products in numerous other European countries like France, Greece, Portugal, Romania, Spain, Slovenia... and countries outside of Europe like Turkey, Russia and Panama.

Production takes place in two different facilities - Bolzano and Ala (TN), where the departments for research and development, sales and logistics are also located. In Ala a third facility is currently under construction designed to further enhance production capacity.

From its beginnings as a small family-owned metal works company in 1953, over the years the company has evolved to become a major industrial player with 250 employees. The main impetus for growth came from its owner, Karl Ninz, who first introduced the production of fire doors in 1976.



The quality management system ISO 9001 is a testimonial to the company mission to further increase the customer satisfaction through an improvement of the entire company organization and production.



## PRODUCTION - VERSATILITY AND DESIGN

The daily production capacity is 2000 doors, which are currently divided into the PROGET line (fire rated and multipurpose), the UNIVER line (fire rated and multipurpose) and REVER line (multipurpose). Products are made to order for even the smallest quantities, satisfying the most demanding customers thanks to the wide variety of colors, accessories and windows available.

Customization of the product reaches a pinnacle with the NDD technology (Ninz Digital Decor), a trademark, NINZ decorative painting which permits any theme (words, pictures, logos) to be reproduced on the door-leaf surface. As an expression of the NDD claim, fire doors are transformed into versatile design elements at the disposal of architects and designers.

This project earned the company the prestigious "Design Security & Safety Award" in 2007

## DESIGN AND RESEARCH - EYES ON THE FUTURE

Continuous product improvements are managed by a team of expert engineers and technicians, who combine scrupulous attention to fire regulations with the practical concerns of builders, installers and locksmiths. This research, for instance, has generated certified installation methods for mounting fire doors on different types of support structures, such as masonry, plasterboard and sub-frames.



Thanks to the in-depth study of foreign standards, Ninz S.p.A. has also succeeded in certifying its products in a number of foreign countries, including France, Slovenia, Russia, Romania...



The company NINZ S.p.A. offers already to-day fire rated doors with "environmental characteristics" which satisfy requirements of acoustic and thermal performances, resistance to windload and water-tightness, as well as multifunctional external doors which are CE marked.



## MARKETING - A SERVICE-ORIENTED PERSPECTIVE

Thanks to their reliability and quality, Ninz fire doors are used throughout Italy and in many countries across the world in public buildings where safety is at a premium: schools, hospitals, convention centers, shopping malls, manufacturing sites, hotels, museums...

The distribution within Italy is capillary thanks to a dense network of retailers supported by over one hundred sales agents.

Punctual delivery - one of the company's strongest points - is guaranteed by the careful planning of the production and by the quality transport services, which are both organized in-house.

The service that Ninz S.p.A. offers its customers is completed by the internal technical-sales department, which assists agents and customers in the pre- and post-sales phases, and by the fitting department, which directly follows product installations at the customer's request.

For international distribution, Ninz S.p.A. draws on (depending on the country) agents, exclusive retailers and networks of retailers supported by a dedicated internal technical-sales department.

Daily shipment to France is possible thanks to the special wooden-crates packaging and the local logistics network that has been created. Due to its great success, this service will soon be extended to other European countries.

**"state of the art in fire  
protection technology"**





## **UNIVER NINZ Doors**

*FIRE RATED VERSION*

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## WHAT MAKES THEM SPECIAL?

### "Quality first"

- Fully galvanized door, including the "hidden" parts
- Made of "Sendzimir" processed hot-galvanized sheet metal
- Corrosion protection also provided along cut edges of the metal sheets
- Painted with epoxy-polyester thermoset powders in a 180 degrees (Celsius) oven
- Substantial paint layer (70 microns plus)
- Optimal corrosion resistance demonstrated by 500 hour salt-fog test
- Unaffected by severe climate changes, demonstrated by 2000 hours with +60° to -10° cycles at 75% humidity
- Finishing with high-quality aesthetics
- Orange skin anti-scratch structured paint
- Customizable with wide selection of RAL colors

### "Practicality of use"

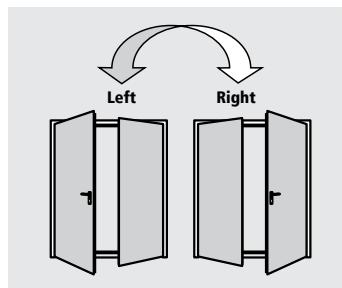
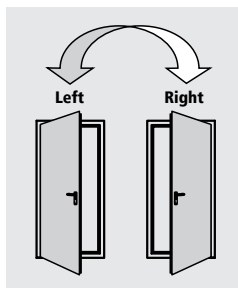
- Door reversibility\*
- Indication of door opening direction not necessary
- Reduction of stock for retailers
- Simplifies choices for end-customers
- Multiple installation methods for each door
- Type approvals for anchors for mortar fixing or expansion screws

### "Conformity to standards"

- In-house Ninz R&D with specialized testing equipment
- Fire testing in accordance with UNI 9723 and EN 1634-1
- Mechanical testing for the **CE** marking of accessories
- **CE**-marked door accessories studied and sized to meet standard European requirements
- Careful selection of materials and manufacturing methods
- Strict product testing for conformity to declared technical standards
- Absolute functional certainty over time
- Doors "type approved" in compliance with M.D. 21 June 2004
- Products delivered with the documentation required by current regulations

### "Manufacturing technology"

- Manufacturing in modern and functional facilities which employ the latest technologies to maintain high quality levels and product uniformity
- The entire production process - from raw materials to painted and packaged products - takes place inside Ninz's own facilities, ensuring a 360 degree door control



One-leafed doors available in the following classes:

EW 60 EI<sub>2</sub>30 EI<sub>2</sub>60 - Sm - C5 EI<sub>2</sub>90 RE 90 REI 60 - 120



Two-leafed doors available in the following classes:

EI<sub>2</sub>60 - Sm - C5 EI<sub>2</sub>90 RE 90 REI 60 REI 120



\*except in combination with certain optional accessories

## STANDARD ELEMENTS

which comprise Univer fire doors:

### Door leaf

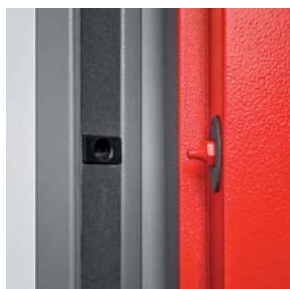
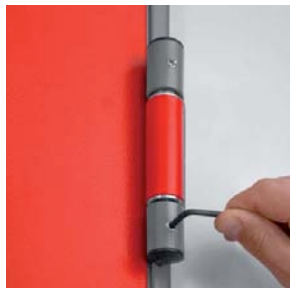
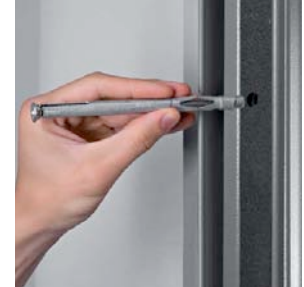
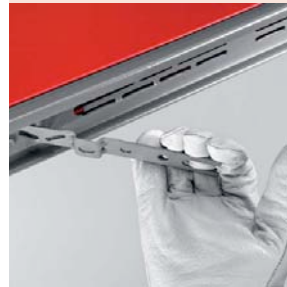
- Made of "Sendzimir" processed hot-galvanized sheet metal, press folded and electro welded
- Perimetral rebate on 4 sides
- Internally reinforced with hot-galvanized steel profiles
- Heat-insulated with treated mineral wool
- Internal stiffeners for overhead door closer and panic bar
- 50 or 60 mm thickness, depending on fire rating

### Doorframe

- Made of "Sendzimir" processed hot-galvanized sheet metal
- Grooves for thermo expansive sealing and rebate sealing
- Suitable for anchors for mortar fixing or expansion screws
- Detachable rebate for application on finished flooring
- Removable threshold for thresholdless installation (except for doors with environmental characteristics)
- Strike plates in black plastic for lock bolt and safety bolts
- Assembled doorframes for one-leaved doors
- Assembly required for two-leaved doorframes

### Thermo expansive sealing

- Mounted on vertical doorframe profiles and central vertical profiles on two-leaved doors
- For on-site mounting on the doorframe's upper cross-beam
- Mounted above and below the EI<sub>2</sub>90 and REI 120 leaves



### Hinges

- Nr. 2 three-wing hinges for each leaf
- of which one ball-bearing hinge with screws for vertical adjustment of the leaf, **CE** marked as per EN 1935, classified for up to 160 kg load, 200.000 cycles durability, suitable for fire door use
- and one hinge with self-closing spring

### Safety bolts

- Nr. 2 safety bolts on hinge side leaf edge

### Locking mechanism

- Reversible locking mechanism with bolt and central lock
- **CE** marked in conformity with EN 12209 standard
- Insert with patent key, Euro profile cylinder ready

### Handle

- Fire rated handle in black plastic with steel core
- Steel installation plate with cylinder hole
- Backplate in black plastic
- Fastener screws and patent key insert

## INCLUDED ACCESSORIES

which are part of the Univer fire doors:

### Closing regulator

- Two-leaved doors include an RC/STD closing regulator to ensure the correct closing sequence of the leaves
- CE marking in conformity with EN 1158 standard

### Locking mechanism for inactive leaf

- "Flush-bolt" automatic locking of the inactive leaf
- Lever control for unlocking

### Upper coupling system for the inactive leaf

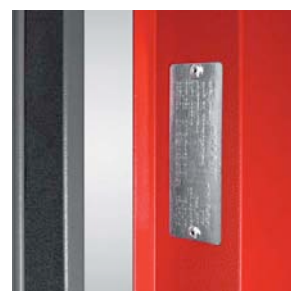
- Inactive leaf lock activated device which inserts rod into the upper strike box
- Upper strike box in black plastic with steel roller

### Lower coupling system for the inactive leaf

- Vertical rod with steel point which inserts into lower strike box
- Floor catch (floor-mounted floor catch) made of self-extinguishing black plastic, for doors without threshold
- Floor catch in black plastic with a steel roller, for doors with threshold

### Identification plate

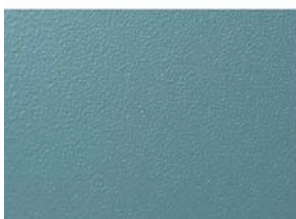
- Metal tag with door identification data, in accordance with current regulations



### Standard paint - group 01:

leaf color NCS 4020-B50G

frame color NCS 5020-B50G



## Finishing

- Standard painted with epoxy-polyester thermoset powders in a 180 degrees oven, orange skin, anti-scratch finishing
- Standard pastel turquoise color, lighter tone for the leaf (NCS4020-B50G), darker tone for the frame (NCS5020-B50G)

## Standard packaging

- Single door wrapped into stretchable polyethylene (PE) film
- Assembled doorframes for one-leaved doors
- Assembly required for doorframes for two-leaved doors
- Palletized on wooden pallets

## Door weight

class	kg/m <sup>2</sup> of wall opening	
	1 leaf	2 leaves
EW 60	23	-
EI,30	34	-
EI,60	36	35
RE 90, REI 60	34	33
EI,90, REI 120	43	41

## NOTE

If the door ever needs to be repainted, follow the precise instructions on the "Painting" section.

## OPTIONAL ACCESSORIES

A wide variety of accessories and surface finishes are available on request for maximum value enhancement of Univer doors to your own specific needs.

The proper accessories can help resolve:

### Safety-related needs

- Doors for panic exits (see panic bars)
- Doors for emergency exits (see emergency exit handles)
- Open doors which must be closed in case of fire (see leaf holding systems)

### Installation and utilization needs

- Frame extensions
- Drip steel-profile
- Special fastener screws
- Kick and protection plates in stainless steel
- Windows
- Roofing

### Access-related control issues

- Electrically-activated lock mechanisms
- Electric handle mechanisms
- Magnetic blocking mechanisms

### Performance enhancing

- Sealing
- Cylinders
- Door closers
- Special closing regulators
- Special handles



### Customized finishing

- Select finishing from a wide variety of RAL colours
- NDD – Ninz Digital Decor, graphic images applied with special ink jets and protected by a transparent topcoat. Infinite varieties of customizable decorations in harmony with specific door settings
- Stainless steel handles
- Colored handles

### Packaging for maximum protection

Sturdy wooden crates protect all doors and related accessories

- For NDD decorated doors
- On construction sites
- During shipping abroad
- For special transport

### NOTE

Details on the optional accessories may be found in the following chapters of this brochure:

- Painting and NDD decorations
- Accessories for metal doors
- Emergency handles and panic bars

Right-opening doors are the default selection if opening direction is not specified.

The following optional accessories make Univer doors irreversible, requiring the indication of the door opening direction when the order is placed:

- SLASH panic bar
- Panic bar for inactive leaves
- Windows
- MAC lock
- ELM/cisa and ELM/mt electric handle
- Special locks (016 tir- Stel 15)

## WINDOW WITH FIRE RATED GLASS

Upon request all one- and two-leaved fire doors, excluding those EW 60 and EI<sub>2</sub>30 rated, may be equipped with round or rectangular windows with fire rated stratified glass and respective window frames fixed with screws. The window frame carter is included for round window and available as an optional accessory for the rectangular one. Windows not possible for one-leaved REI doors with FM L (wall opening) above 1167mm.

### Limits prescribed by standard

According to standards UNI 9723 and EN 1634-1, windows may be smaller but not larger than the test sample size, and the reverse holds true for the border strip around the window which may be wider but not thinner. The following limits correspond with these restrictions.

### Borders, window position

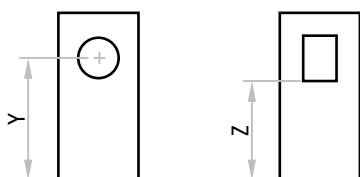
"Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

### Elevation for round windows

window size	FM H	position
Ø 300	minimum 2050	Y=1600
Ø 300	less than 2050	Y=FM H - 450
Ø 400	minimum 2150	Y=1600
Ø 400	from 2050 to 2149	Y=1550
Ø 400	less than 2050	Y=FM H - 500

### Elevation for rectangular windows

window dimensions L x H	FM H	position
250/300 x 400	minimum 2150	Z=1450
250/300 x 400	from 2050 to 2149	Z=1350
250/300 x 400	less than 2050	Z=FM H - 700



### NOTE

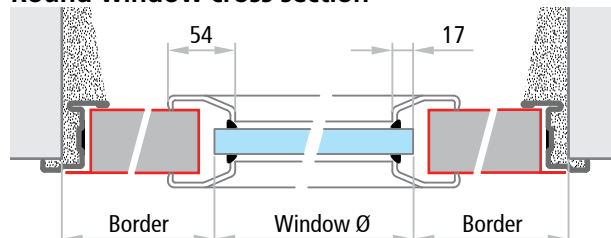
The positions indicated above are those standard. Different positions may be considered as long as they respect the minimum "a" and "b" border strips. The window itself may not be supplied separately except for replacements. It is always advisable for doors with windows to be equipped with door closers for controlled closing.



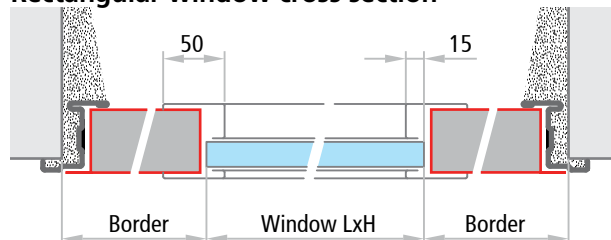
### NOTE

For the rectangular windows the frame carter is an optional accessory

### Round window cross section



### Rectangular window cross section



### ATTENTION

In case of external installation use windows designed for this purpose.

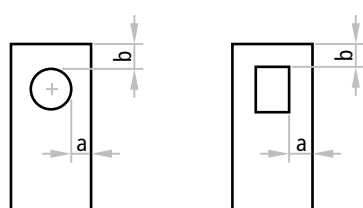
For special instructions and recommendations for glazed fire-rated products, see the "Notices" section on the last page of the present brochure.

# Specific optional accessories

## UNIVER Fire doors



Window dimensions		min. border EI <sub>2</sub>		min. border RE, REI		dimensions FM L min.
		a	b	a	b	
	Ø 300	220	300	220	300	740
	Ø 400					840
	Ø 300	220	300	220	300	L1 740 + L2 min.
	Ø 400					L1 840 + L2 min.
	Ø 300	220	300	220	300	L1 740 + L2 740
	Ø 400					L1 840 + L2 840



Window dimensions		min. border EI <sub>2</sub>		min. border RE, REI		dimensions FM L min.
		a	b	a	b	
	250 x 400	250	300	300	300	EI <sub>2</sub> =750 RE, REI=850
	300 x 400					EI <sub>2</sub> =800 RE, REI=900
	250 x 400	300	300	300	300	L1 850 + L2 min.
	300 x 400					L1 900 + L2 min.
	250 x 400	300	300	300	300	L1 850 + L2 850
	300 x 400					L1 900 + L2 900

### NOTE

Round and rectangular windows not possible for one-leaved REI doors with FM L (wall opening) above 1167mm.

## FRAME EXTENSIONS FOR UNIVER DOORS

### IM 11 - IM 12

Frame extensions to be mounted in addition to the Univer frame acting as a wall cladding. Made of "Sendzimir" processed hot-galvanized sheet metal and painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 45 degree joint, fixing with screws and plugs (screws and plugs not included).

IM 11: for 50mm door thickness, for installation on 70mm (min.) wall thickness

IM 12: for 60mm door thickness, for installation on 80mm (min.) wall thickness

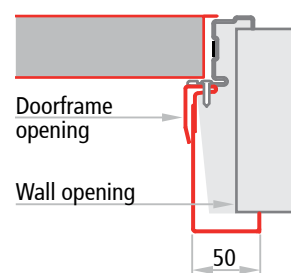
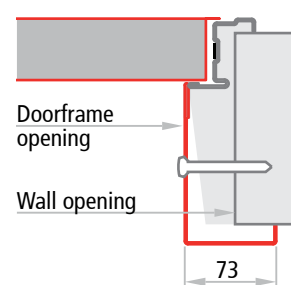
### IM 13 - IM 14

Telescopic frame extensions to be screwed to the Univer door-frame acting as a wall cladding. Consists of two overlapping profiles with a 25mm adjustable range. Made of "Sendzimir" processed hot-galvanized sheet metal painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint.

Complete with fastener screws. To mount the frame extension, fixing holes need to be drilled into doorframe on site. Combine with sealing to conceal the screw heads.

IM 13: for 50mm door thickness, for installation on 125mm (min.) wall thickness

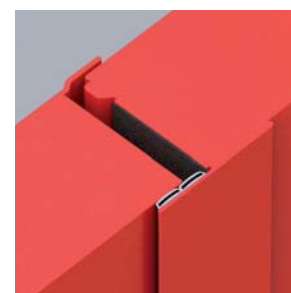
IM 14: for 60mm door thickness, for installation on 135mm (min.) wall thickness



## REBATE SEALING

FF/CR sealing (for EW and EI<sub>2</sub> doors) and FF sealing (for RE and REI doors) in black extruded profile to cut and to be pressed into the dedicated groove in the perimetral frame.

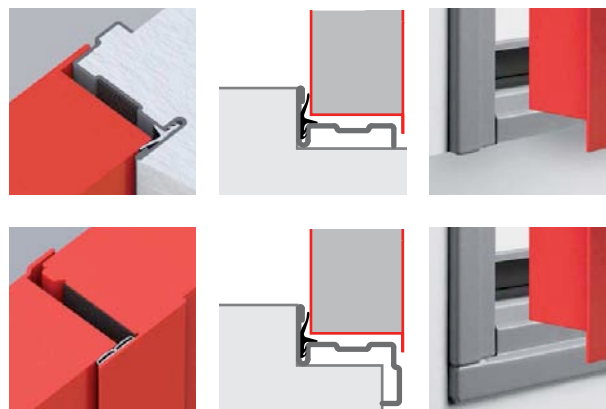
FF sealing in black extruded profile self-adhesive to cut for application to the central joint of two-leaved doors.



### ENVIRONMENTAL CHARACTERISTICS OF FIRE DOORS

The norms EN 14351-1 (external doors) and EN 14351-2 (internal doors) are not applicable for fire rated doors, nevertheless they may be taken as a reference to determine the environmental characteristics of the latter. CE marking is not mandatory, tests for their classification are purely provided on a voluntarily basis.

The Univer pricelist lists Kits which add this environmental characteristic to the door.



### ATTENTION






For the dimensional limits according to the certificates and homologations of the fire rated doors and regarding the minimum borders please refer to the specific pages of this brochure.

The values for the thermal transmittance  $W/m^2K$  shown in the table on the next page are given by the calculation according to the norm EN ISO 10077-1 done on samples of the dimensions 1,23x2,18 for areas  $\leq 3,6m^2$  and on samples of the dimensions 2,00x2,18 for areas  $> 3,6m^2$ .

All performance values indicated in the table are valid only in presence of the following accessories or enhancements:

- installation of the lower threshold
- in case the door is installed onto an emergency exit route it is necessary to raise the finished floor on the push side of the door in such a way as to compensate entirely the difference of the floor level and the lower threshold
- isolation of the door frame with the filling of cement
- installation of rubber seals FF along the entire perimeter of the door frame including the central rebate for double leaved doors.

## Performance requirements and classification

	FM L x H dimensions	class	air permeability according to EN 1026:2001	thermal transmittance according to EN 10077-1:2007	water-tightness according to EN 1027:2001	resistance to windload according to EN 12211:2001
<b>without window</b> 	≤ 3,6 m <sup>2</sup>	EW 60, EI <sub>2</sub> 30, RE 90, REI 60	class 2	1,58 W/m <sup>2</sup> K	class 2A	
	≤ 3,6 m <sup>2</sup>	EI <sub>2</sub> 60, EI <sub>2</sub> 90, REI 120	class 2	1,49 W/m <sup>2</sup> K	class 2A	
	540 - 900 x 1780 - 2150	ALL				class C2
<b>with window 300x400</b> 	≤ 3,6 m <sup>2</sup>	EI <sub>2</sub> 60	class 2	2,01 W/m <sup>2</sup> K	class 2A	
	≤ 3,6 m <sup>2</sup>	EI <sub>2</sub> 90, REI 120	class 2	1,94 W/m <sup>2</sup> K	class 2A	
	≤ 3,6 m <sup>2</sup>	RE 90, REI 60	class 2	2,09 W/m <sup>2</sup> K	class 2A	
	900 x 1780 - 2150	ALL				class C2
<b>without windows</b> 	≤ 3,6 m <sup>2</sup>	EI <sub>2</sub> 60	class 3	1,88 W/m <sup>2</sup> K	class 3A, 9B	
	> 3,6 m <sup>2</sup>	EI <sub>2</sub> 60	class 3	1,52 W/m <sup>2</sup> K	class 3A, 9B	
	≤ 3,6 m <sup>2</sup>	EI <sub>2</sub> 90, REI 120	class 3	1,88 W/m <sup>2</sup> K	class 3A, 9B	
	> 3,6 m <sup>2</sup>	EI <sub>2</sub> 90, REI 120	class 3	1,51 W/m <sup>2</sup> K	class 3A, 9B	
	≤ 3,6 m <sup>2</sup>	RE 90, REI 60	class 3	1,99 W/m <sup>2</sup> K	class 3A, 9B	
	> 3,6 m <sup>2</sup>	RE 90, REI 60	class 3	1,62 W/m <sup>2</sup> K	class 3A, 9B	
	940 - 2000 x 1780 - 2150	ALL				class C2
<b>with windows 300x400</b>  	≤ 3,6 m <sup>2</sup>	EI <sub>2</sub> 60	class 3	2,91 W/m <sup>2</sup> K	class 3A, 9B	
	> 3,6 m <sup>2</sup>	EI <sub>2</sub> 60	class 3	2,15 W/m <sup>2</sup> K	class 3A, 9B	
	≤ 3,6 m <sup>2</sup>	EI <sub>2</sub> 90, REI 120	class 3	2,78 W/m <sup>2</sup> K	class 3A, 9B	
	> 3,6 m <sup>2</sup>	EI <sub>2</sub> 90, REI 120	class 3	2,06 W/m <sup>2</sup> K	class 3A, 9B	
	≤ 3,6 m <sup>2</sup>	RE 90, REI 60	class 3	2,92 W/m <sup>2</sup> K	class 3A, 9B	
	> 3,6 m <sup>2</sup>	RE 90, REI 60	class 3	2,19 W/m <sup>2</sup> K	class 3A, 9B	
	1300 * - 2000 x 1780 - 2150	ALL				class C2

\* = only for single leaf with window

## Sm, C5 ENHANCED PERFORMANCES

### Mandatory accessories

Enhanced performance	features	type	mandatory optional accessories	reference in brochure
EI <sub>2</sub> 60-Sm	Smoke control Door	1 leaf	- rubber seal FF/CR - Nr. 1 automatic door sweep	UNIVER fire door ACCESSORIES
		2 leaves	- rubber seal FF/CR - Nr. 2 automatic door sweep	UNIVER fire door ACCESSORIES
EI <sub>2</sub> 60-C5	Durability: 200,000 cycles	1 leaf	- Nr. 1 door closer	ACCESSORIES
		2 leaves	- Nr. 2 door closers	ACCESSORIES



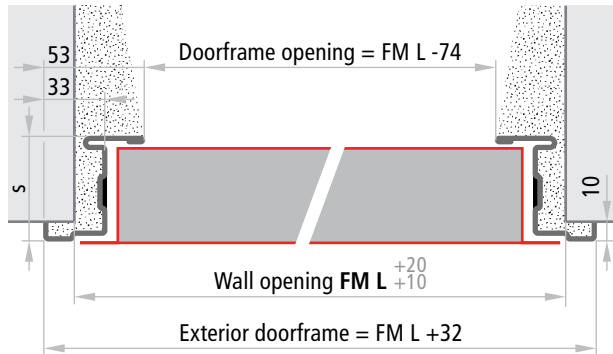
## MECHANICAL STRENGTH PERFORMANCES

### Performance requirements and classifications

class	tested FM L X H dimensions	type	description of the performance	reached class	standard reference
EI <sub>2</sub> 60	2000 (1000 + 1000) x 2125	2 leaves	resistance to vertical load	4	EN 1192:2002
			resistance to static torsion	4	EN 1192:2002
			resistance to soft and heavy body impact	4	EN 1192:2002
			resistance to hard body impact	3	EN 1192:2002

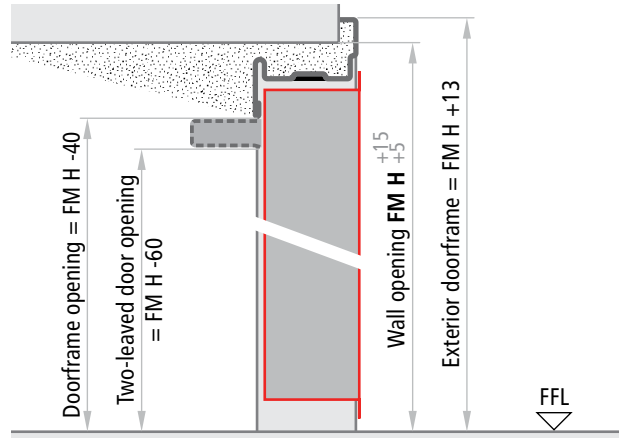
## One-leaved doors

Horizontal cross section



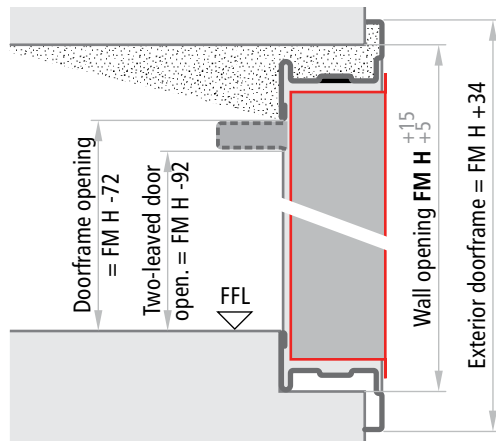
## Doors without lower threshold

Vertical cross section



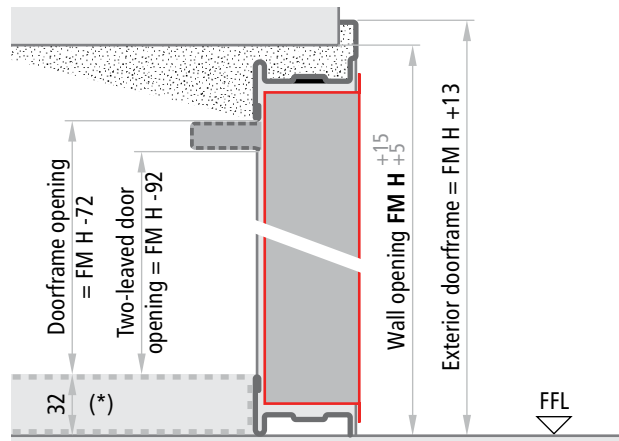
## Doors with internal and external lower thresholds

Vertical cross section



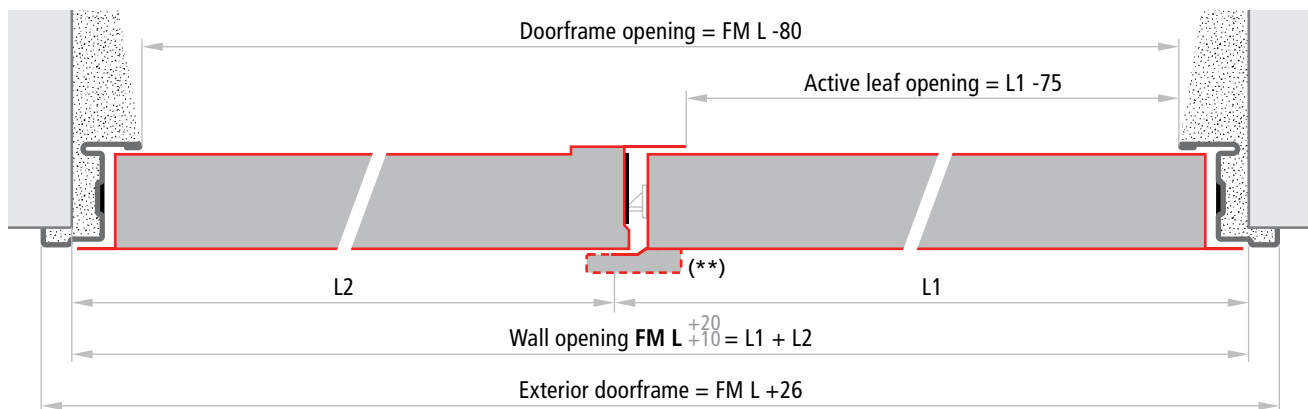
## Doors with internal lower threshold

Vertical cross section



## Two-leaved doors

Horizontal section



## Thicknesses

class	leaves	doorframe
EW 60, EI <sub>2</sub> 30, RE 90, REI 60	50 mm	s = 55 mm
EI <sub>2</sub> 60, EI <sub>2</sub> 90, REI 120	60 mm	s = 65 mm

## NOTE

The tolerances FM L +20, FM H +15 of the indicated measurements make it easier to fill the gap between the wall and the doorframe with cement mortar.

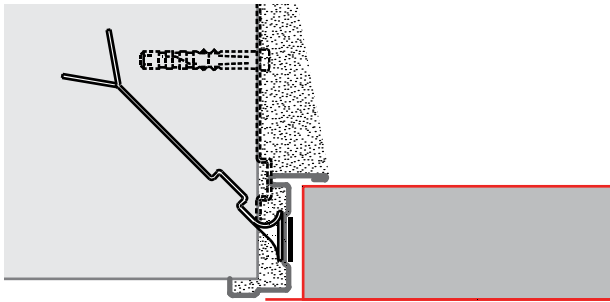
(\*) Shimming to be done, mandatory in case of installation onto emergency exit routes.

(\*\*) Only for EI<sub>2</sub>90 fire rated doors

## INSTALLATION WITH ANCHORS FOR MORTAR FIXING

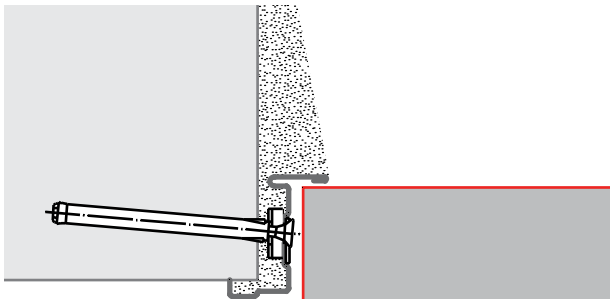


For mortar fixing, appropriate cuts will need to be created in the walls (section 80 x 200 mm). The anchors should be bent and blocked inside the wall. For fire sealing purposes and a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled with concrete mortar.



## INSTALLATION FOR EXPANSION SCREWS FIXING

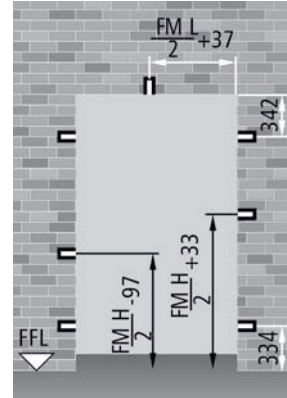
For the installation with expansion screws, the anchors serve as spacers and should not be bent. Using Würth type art. 0910436112 plugs or similar (supplied at the customer's expense), installation requires holes to be drilled through the thermo expansive sealing. The doorframe has pre-drilled holes. For fire sealing purposes and a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled with concrete mortar.



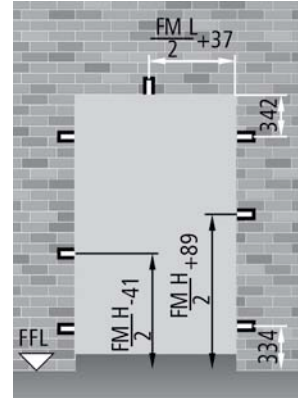
## ANCHOR POSITIONING

### One-leaved doors

Right opening

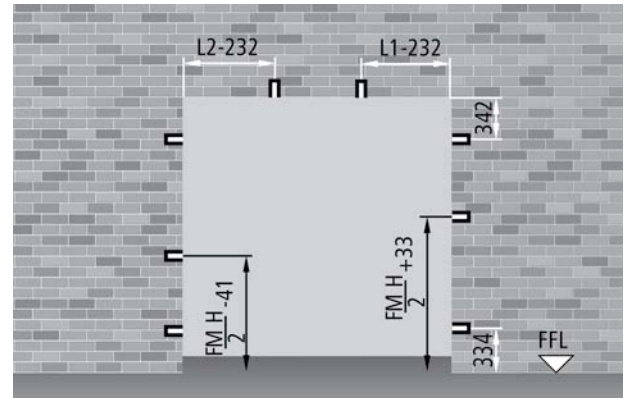


Left opening

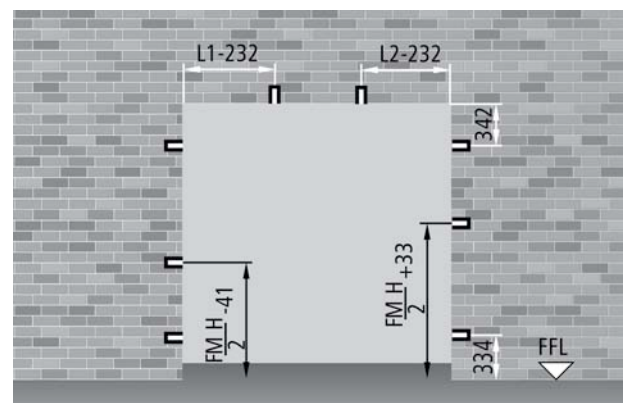


### Two-leaved doors

Right opening



Left opening

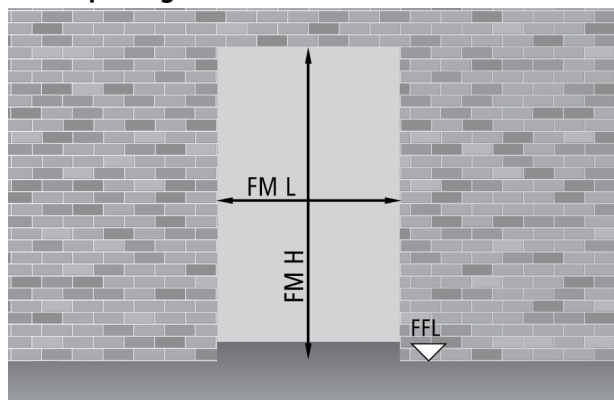


### NOTE

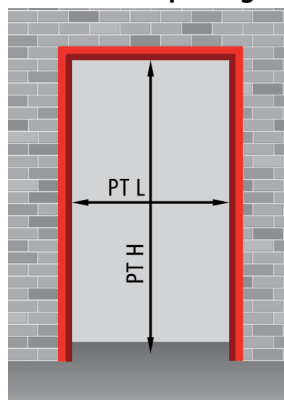
Proper installation requires 80 x 200 mm holes to be dug into the masonry.

## ORDER MEASUREMENTS

### Wall opening



### Doorframe opening



#### One-leaved doors

$$PT L = FM L - 74$$

$$PT H = FM H - 40$$

#### Two-leaved doors

$$PT L = FM L - 80$$

$$PT H = FM H - 40$$

### EW, EI one-leaved doors FM L x FM H

standard dimensions			PT L x PT H doorframe opening		fire-rating class
800	x	2050 / 2100 / 2150	726	x 2010 / 2060 / 2110	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60, EI <sub>2</sub> 90
		2200*	726	x 2160	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60
900	x	2050 / 2100 / 2150	826	x 2010 / 2060 / 2110	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60, EI <sub>2</sub> 90
		2200*	826	x 2160	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60
1000	x	2050 / 2100 / 2150	926	x 2010 / 2060 / 2110	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60, EI <sub>2</sub> 90
		2200*	926	x 2160	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60
1100	x	2050 / 2100* / 2150 / 2200*	1026	x 2010 / 2060 / 2110 / 2160	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60
semi standard dimensions					
from 540 to 1150	x	2050 / 2150	from 466 to 1076	x 2010 / 2110	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60
from 540 to 995	x	2050 / 2150	from 466 to 921	x 2010 / 2110	EI <sub>2</sub> 90
non-standard dimensions					
from 540 to 1150	x	from 1780 to 2150	from 466 to 1076	x from 1740 to 2110	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60
from 540 to 1000	x	from 1780 to 2150	from 466 to 926	x from 1740 to 2110	EI <sub>2</sub> 90

### RE and REI one-leaved doors FM L x FM H

standard dimensions			PT L x PT H doorframe opening		fire-rating class
800	x	2050 / 2100 / 2150	726	x 2010 / 2060 / 2110	RE 90, REI 60, REI 120
900	x	2050 / 2100 / 2150 / 2200*	826	x 2010 / 2060 / 2110 / 2160	RE 90, REI 60, REI 120
1000	x	2050 / 2100 / 2150 / 2200*	926	x 2010 / 2060 / 2110 / 2160	RE 90, REI 60, REI 120
1100	x	2050 / 2100 / 2150 / 2200*	1026	x 2010 / 2060 / 2110 / 2160	RE 90, REI 60, REI 120
1200	x	2050 / 2100 / 2150 / 2200*	1126	x 2010 / 2060 / 2110 / 2160	REI 60, REI 120
1300	x	2050 / 2100* / 2150 / 2200*	1226	x 2010 / 2060 / 2110 / 2160	REI 60, REI 120
1350	x	2050 / 2100* / 2150 / 2200*	1276	x 2010 / 2060 / 2110 / 2160	REI 60, REI 120
semi standard dimensions					
from 540 to 1345	x	2050 / 2150	from 466 to 1271	x 2010 / 2110	REI 60, REI 120
from 540 to 1167	x	2050 / 2150	from 466 to 1093	x 2010 / 2110	RE 90
non-standard dimensions					
from 540 to 1330	x	from 1780 to 2150	from 466 to 1256	x from 1740 to 2110	REI 60, REI 120
from 1331 to 1350	x	from 1938 to 2150	from 1257 to 1276	x from 1898 to 2110	REI 60, REI 120
from 540 to 1167	x	from 1780 to 2150	from 466 to 1093	x from 1740 to 2110	RE 90

\* limited dimensions available - see the price list

EI two-leaved doors FM L x FM H				PT L x PT H	H net passage	fire-rating
standard dimensions				doorframe opening	for RC/STD encumbrance	class
1200	( 600 + 600)	x	2050 / 2100* / 2150	1120 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60
1200	( 700 + 500)	x	2050 / 2100* / 2150	1120 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60
1300	( 650 + 650)	x	2050 / 2100* / 2150	1220 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60
1300	( 800 + 500)	x	2050 / 2100* / 2150	1220 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60
1400	( 700 + 700)	x	2050 / 2100* / 2150	1320 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60
1400	( 900 + 500)	x	2050 / 2100* / 2150	1320 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60
1500	( 750 + 750)	x	2050 / 2100* / 2150	1420 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60
1600	( 800 + 800)	x	2050 / 2100* / 2150	1520 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60, EI,90
1700	( 900 + 800)	x	2050 / 2100* / 2150	1620 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60, EI,90
1800	( 900 + 900)	x	2050 / 2100* / 2150	1720 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60, EI,90
1900	(1000 + 900)	x	2050 / 2100* / 2150	1820 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60, EI,90
2000	(1000 + 1000)	x	2050 / 2100* / 2150	1920 x 2010 / 2060 / 2110	1990 / 2040 / 2090	EI,60, EI,90

#### semi standard dimensions

from 1000 ( 500+ 500)	x	2050 / 2150	from 920	x 2010 / 2110	1990 / 2090	EI,60, EI,90
to 2000 (1000+1000)			to 1920			

#### non-standard dimensions

from 1000 ( 500+ 500)	x	from 1780	from 920	from 1740	from 1720	EI,60, EI,90
to 2000 (1000+1000)		to 2150	to 1920	to 2110	to 2090	

RE and REI two-leaved doors FM L x FM H				PT L x PT H	H net passage	fire-rating
standard dimensions				doorframe opening	for RC/STD encumbrance	class
1150	( 750 + 400)	x	2050 / 2100* / 2150	1070 x 2010 / 2060 / 2110	1990 / 2040 / 2090	RE 90, REI 60, REI 120
1200	( 800 + 400)	x	2050 / 2100* / 2150	1120 x 2010 / 2060 / 2110	1990 / 2040 / 2090	RE 90, REI 60, REI 120
1250	( 800 + 450)	x	2050 / 2100* / 2150	1170 x 2010 / 2060 / 2110	1990 / 2040 / 2090	RE 90, REI 60, REI 120
1300	( 900 + 400)	x	2050 / 2100* / 2150	1220 x 2010 / 2060 / 2110	1990 / 2040 / 2090	RE 90, REI 60, REI 120
1350	( 900 + 450)	x	2050 / 2100* / 2150	1270 x 2010 / 2060 / 2110	1990 / 2040 / 2090	RE 90, REI 60, REI 120
1400	(1000 + 400)	x	2050 / 2100* / 2150	1320 x 2010 / 2060 / 2110	1990 / 2040 / 2090	RE 90, REI 60, REI 120
1450	(1000 + 450)	x	2050 / 2100* / 2150	1370 x 2010 / 2060 / 2110	1990 / 2040 / 2090	RE 90, REI 60, REI 120
1600	( 800 + 800)	x	2050 / 2100 / 2150	1520 x 2010 / 2060 / 2110	1990 / 2040 / 2090	RE 90, REI 60, REI 120
1700	( 900 + 800)	x	2050 / 2100 / 2150	1620 x 2010 / 2060 / 2110	1990 / 2040 / 2090	RE 90, REI 60, REI 120
1800	( 900 + 900)	x	2050 / 2100 / 2150 / 2200*	1720 x 2010 / 2060 / 2110 / 2160	1990 / 2040 / 2090 / 2140	RE 90, REI 60, REI 120
1900	(1000 + 900)	x	2050 / 2100 / 2150 / 2200*	1820 x 2010 / 2060 / 2110 / 2160	1990 / 2040 / 2090 / 2140	RE 90, REI 60, REI 120
2000	(1000 + 1000)	x	2050 / 2100 / 2150 / 2200*	1920 x 2010 / 2060 / 2110 / 2160	1990 / 2040 / 2090 / 2140	RE 90, REI 60, REI 120

#### semi standard dimensions

from 940 ( 540+ 400)	x	2050 / 2150	from 860	x 2010 / 2110	1990 / 2090	RE 90, REI 60, REI 120
to 2000 (1000+1000)			to 1920			

#### non-standard dimensions

from 940 ( 540+ 400)	x	from 1780	from 860	from 1740	from 1720	RE 90, REI 60, REI 120
to 2000 (1000+1000)		to 2150	to 1920	to 2110	to 2090	

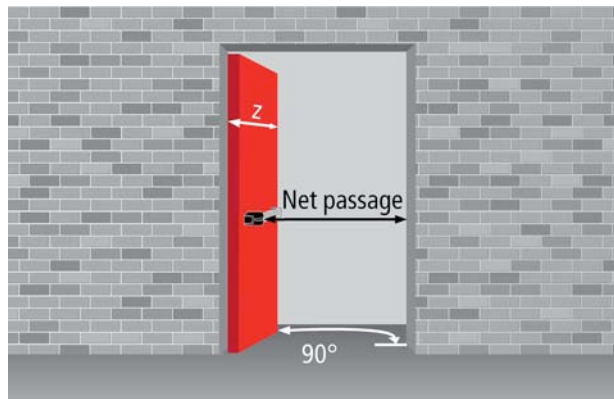
\* limited dimensions available - see the price list

#### NOTE

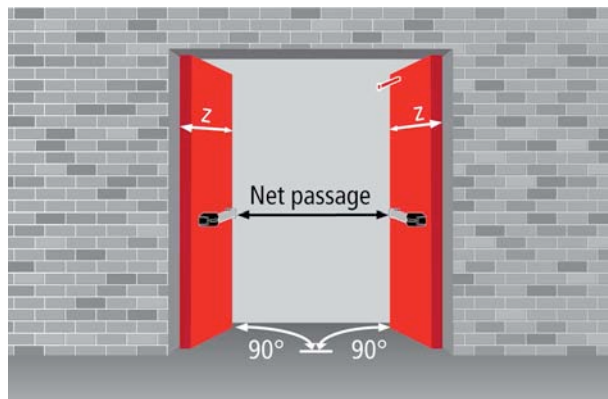
Unless specified otherwise by the customer, two-leaved standard, semi-standard and customized doors are supplied with a right-pull opening direction.

## OPENING MEASUREMENTS AND OVERALL DIMENSIONS WITH 90 DEGREE OPENING

### One-leaved doors with panic bar



### Two-leaved doors with panic bars



### Net passage calculation

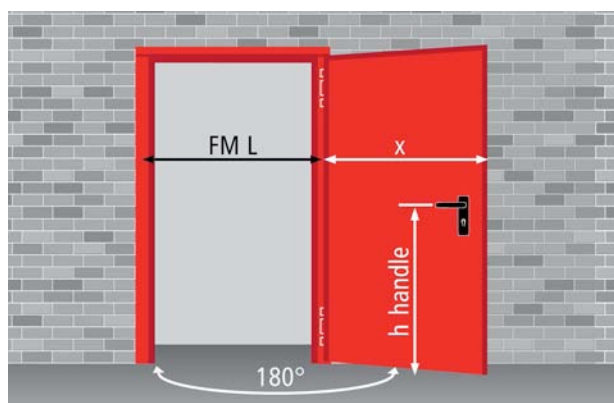
		EW 60 - EI <sub>2</sub> 30 - RE 90 - REI 60	RE 90, REI 60	EI <sub>2</sub> 60 - EI <sub>2</sub> 90 - REI 120	EI <sub>2</sub> 60 - EI <sub>2</sub> 90 - REI 120
panic bar type	protrusion	one-leaved doors	two-leaved doors	one-leaved doors	two-leaved doors
EXUS	125	FML - 226	FML - 384	FML - 236	FML - 404
TWIST	100	FML - 201	FML - 334	FML - 211	FML - 354
SLASH	75	FML - 176	FML - 284	FML - 186	FML - 304
FAST TOUCH	75	FML - 176	FML - 284	FML - 186	FML - 304
without panic bar	-	FML - 101	FML - 134	FML - 111	FML - 154
z = leaf protrusion relative to the wall		FML + 29	L1 + 35 L2 + 64	FML + 29	L1 + 35 L2 + 64

## OVERALL DIMENSIONS WITH 180 DEGREE OPENING - HANDLE HEIGHT

### One-leaved doors

$$x = FML + 5$$

$$h \text{ handle} = FMH/2 + 50$$

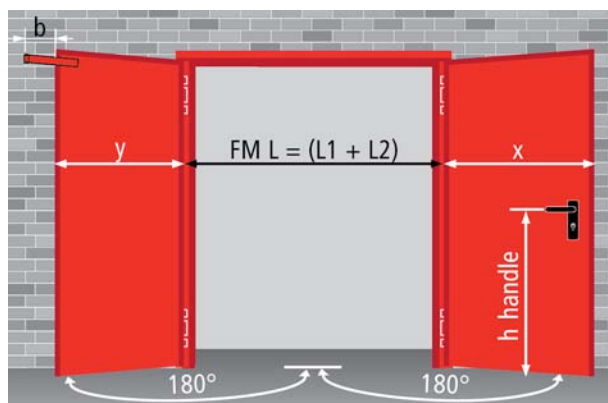


### Two-leaved doors

$$x = L1 + 5 \quad y = L2 + 35$$

$$h \text{ handle} = FMH/2 + 50$$

$$b = 130 \text{ (only in the presence of panic bars or M14 handles)}$$



**"fire protection excellence,  
flexibility custom-made"**



# PROGET NINZ Doors

*FIRE RATED VERSION*

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## THE FIRE DOOR IN A CLASS OF ITS OWN

### "Indisputable quality"

- Especially sturdy door for safe functioning over time
- Ideal for application to uneven or weak walls
- Fully isolated frame for true "dry wall installation"
- Built to order for all kinds of requests
- Fully galvanized door, including the "hidden" parts
- Made of hot-galvanized sheet metal, "Sendzimir" processed
- Corrosion protection also provided along cut edges of the metal sheets
- Painted with epoxy-polyester thermoset powders in a 180 degrees (Celsius) oven
- Substantial paint layer (70 microns plus)
- Optimal corrosion resistance demonstrated by 500 hour salt-fog test
- Unaffected by severe climate changes, demonstrated by 2000 hours with +60° to -10° cycles at 75% humidity
- Finishing with high-quality aesthetics
- Orange skin anti-scratch structured paint
- Customizable with wide selection of RAL colors

### "Practicality of use"

- Truly sturdy frame that facilitates anchoring to the wall
- Suitable for all wall types
- Different installation methods to choose from
- Significantly reduced installation times
- Type approvals for multiple installations to different wall types
- Ample size range
- Wide variety of accessories

### "Conformity to standards"

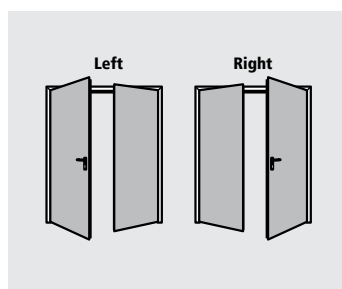
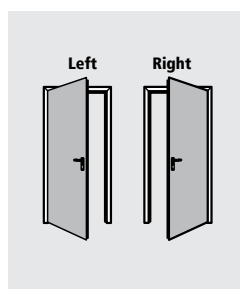
- In-house Ninz R&D with specialized testing equipment
- Fire testing in accordance with UNI 9723 and EN 1634-1
- Mechanical testing for the **CE** marking of accessories
- **CE** marked door accessories studied and sized to meet standard European requirements
- Careful selection of materials and manufacturing methods
- Strict product testing for conformity to declared technical standards
- Absolute functional certainty over time
- Doors "type approved" in compliance with M.D. 21 June 2004
- Products delivered with the documentation required by current regulations

### "Manufacturing technology"

- Manufacturing in modern and functional facilities which employ the latest technologies to maintain high quality levels and product uniformity
- The entire production process - from raw materials to painted and packaged products - takes place inside Ninz's own facilities, ensuring a 360 degree door control

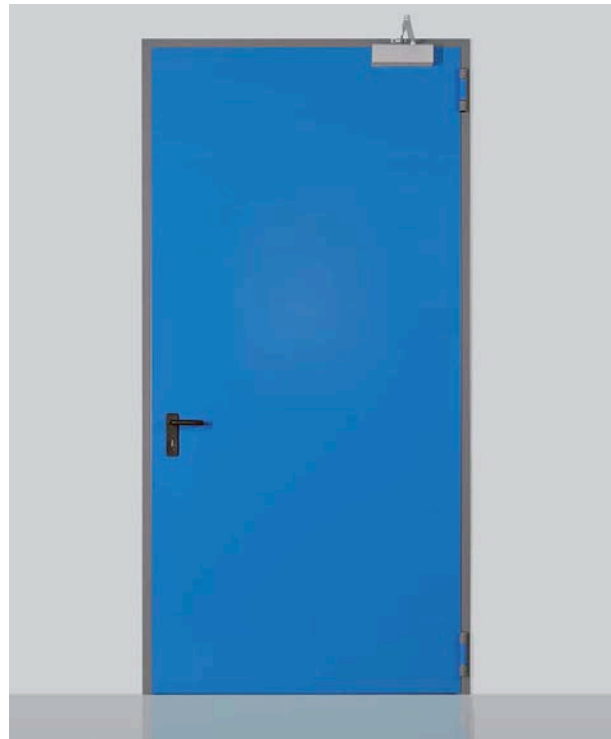
### Opening direction

Opening direction needs to be indicated while ordering



One-leaved doors available in the following classes:

EI<sub>2</sub>60
 EI<sub>2</sub>120
 REI 60
 REI 120



Two-leaved doors available in the following classes:

EI<sub>2</sub>60
 EI<sub>2</sub>90
 REI 60
 REI 120



## STANDARD ELEMENTS

which comprise Proget fire doors:

### Door leaf

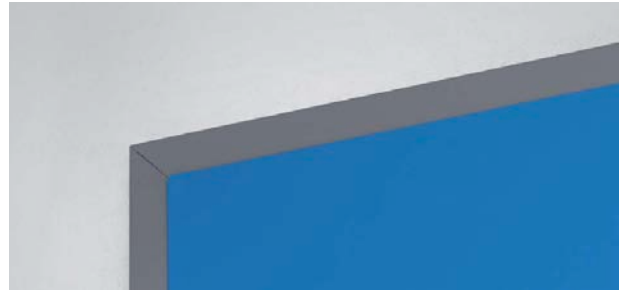
- Made of "Sendzimir" processed hot-galvanized sheet metal, press folded and electro welded
- Perimetral rebate on 3 sides, flat at the bottom
- Internally reinforced with hot-galvanized steel profiles
- Heat-insulated treated mineral wool packing that is rigidly joined to the sheet metal
- Internal stiffeners for overhead door closer and panic bar
- Single thickness of 60 mm

### Standard frame

- Sturdy profile with a sizeable cross section
- Made of "Sendzimir" processed hot-galvanized sheet metal
- Equipped with special assembly brackets
- Grooves for thermo expansive sealing and rebate sealing
- Standard installation via anchors for mortar fixing
- Upon request installation via expansion screws or screws onto the subframe
- Lower spacer, mounting template
- Rests on finished flooring without rebate
- Strike plates in black plastic for lock bolt and safety bolts
- Assembly required for doorframes

### Thermo expansive sealing

- Mounted on vertical doorframe profiles and central vertical profiles (for two-leaved doors)
- Mounted above and below the leaves depending on the certification



### Hinges

- Nr. 2 three-wing hinges for each leaf
- of which one ball-bearing hinge with screws for vertical adjustment of the leaf, **CE** marked as per EN 1935, classified for up to 160 kg load, 200.000 cycles durability, suitable for fire door use
- and one hinge with self-closing spring

### Safety bolts

- Nr. 1 or 2 safety bolts applied on hinge side leaf edge

### Locking mechanism

- Reversible locking mechanism with bolt and central latch for EI<sub>2</sub>60, EI<sub>2</sub>90 and REI 120 doors
- Three locking point mechanism for one-leaved EI<sub>2</sub>120 doors
- **CE** marked in conformity with EN 12209 standard
- Insert with patent key, Euro profile cylinder ready

### Handle

- Fire rated handle in black plastic with steel core
- Steel installation plate with cylinder hole
- Backplate in black plastic
- Fastener screws and patent key insert

## INCLUDED ACCESSORIES

which comprise Proget fire doors:

### Closing regulator

- Standard two-leaved doors include an RC/STD closing regulator to ensure the correct closing sequence of the leaves, except those with environmental characteristics for which the RC2 system is mandatory (to be ordered with the door).
- **CE** marking in conformity with EN 1158 standard

### Locking mechanism for inactive leaf

- "Flush-bolt" automatic locking of the inactive leaf
- Lever control for unlocking

### Upper coupling system for the inactive leaf

- Inactive leaf lock activated device which inserts rod into the upper strike box
- Upper strike box in pierced steel with steel roller

### Lower coupling system for the inactive leaf

- Vertical rod with steel point which inserts into lower strike box
- Lower floor catch (floor-mounted bushing) made of self-extinguishing black plastic with rebate stopper

### Identification plate

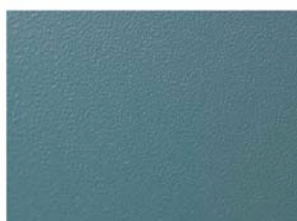
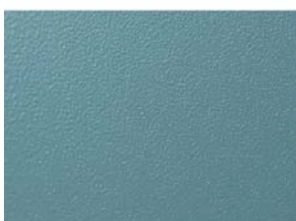
- Metal tag with door identification data, in accordance with current regulations



### Standard paint - group 01:

leaf color NCS 4020-B50G

frame color NCS 5020-B50G



## Finishing

- Standard painted with epoxy-polyester thermoset powders in a 180 degrees oven, orange skin, anti-scratch finishing
- Standard pastel turquoise color, lighter tone for the leaf (NCS4020-B50G), darker tone for the frame (NCS5020-B50G)

## Standard packaging

- Single leaf wrapped into stretchable polyethylene (PE) film
- Single packaging for each doorframe with stretchable polyethylene (PE) film
- Palletized on wooden pallets

Door weight	class	kg/m <sup>2</sup> of wall opening
1 leaf	EI <sub>2</sub> 60, REI 60	37
2 leaves	EI <sub>2</sub> 60, REI 60	35
1 leaf	EI <sub>2</sub> 120, REI 120	42
2 leaves	EI <sub>2</sub> 90, REI 120	40

## NOTE

If the door ever needs to be repainted, follow the precise instructions on the "Painting" section.

## INSTALLATION ONTO OTHER WALL TYPES

Other types of installation are possible, all of which have been rigorously certified and approved

- Frame for dry wall installation with expansion screws
- Frame for dry wall installation with screws onto the subframe
- Block frame for in the reveal application
- Embracing frame for lightweight constructions installation

## OPTIONAL ACCESSORIES

A wide variety of accessories and surface finishes are available on request for maximum value enhancement of Proget doors to your own specific needs. The proper accessories can help resolve:

### Safety-related needs

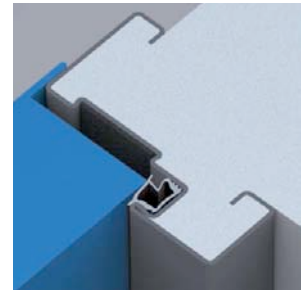
- Doors for panic exits (see panic bars)
- Doors for emergency exits (see emergency exit handles)
- Open doors which must be closed in case of fire (see leaf holding systems)

### Installation and utilization needs

- Frame extensions
- Different kinds of floor mounted catches
- Roofing and drip steel-profile
- Special fastener screws
- Kick and protection plates in stainless steel
- Rectangular windows, standard dimensions or built to order
- Round windows
- One-leaved door with frame on four sides

### Access-related control issues

- Electrically-activated lock mechanisms
- Electric handle mechanisms
- Magnetic blocking mechanisms



## Performance enhancing

- Sealing
- Cylinders
- Door closers
- Special closing regulators
- Special handles

## Customized finishing

- Select finishing from a wide variety of RAL colours
- NDD – Ninz Digital Decor, graphic images applied with special ink jets and protected by a transparent topcoat. Infinite varieties of customizable decorations in harmony with specific door settings
- Stainless steel handles
- Colored handles

## Packaging for maximum protection

Sturdy wooden crates protect all doors and related accessories

- For NDD decorated doors
- On construction sites
- During shipping abroad
- For special transport

## NOTE

Details on the optional accessories may be found in the following chapters of this brochure:

- Painting and NDD decorations
- Accessories for metal doors
- Emergency handles and panic bars



### WINDOW WITH FIRE RATED GLASS

Upon request all one- and two-leaved fire doors may be equipped with round or rectangular windows with fire rated stratified glass and respective window frames fixed with screws. The window frame carters are included for round window and available as an optional accessory for the rectangular one.

#### Limits prescribed by regulations

According to standards UNI 9723 and EN 1634-1, windows may be smaller but not larger than the test sample size, and the reverse holds true for the border strip around the window which may be wider but not thinner. The following limits correspond with these restrictions.

#### Borders, window position

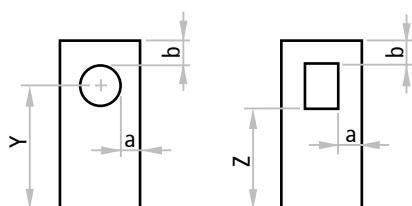
"Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

#### Elevation for round windows

window size	FM H	position
Ø 300	minimum 2050	Y=1600
Ø 300	less than 2050	Y=FM H - 450
Ø 400	minimum 2150	Y=1600
Ø 400	from 2050 to 2149	Y=1550
Ø 400	less than 2050	Y=FM H - 500

#### Elevation for rectangular windows

window dimensions L x H	FM H	position
300 x 400	minimum 2150	Z=1450
300 x 400	from 2050 to 2149	Z=1350
300 x 400	less than 2050	Z=FM H - 700
400 x 600	minimum 2150	Z=1250
400 x 600	from 2050 to 2149	Z=1150
400 x 600	less than 2050	Z=FM H - 900
400 x 1200	minimum 2150	Z=650
400 x 1200	from 2050 to 2149	Z=550
400 x 1200	less than 2050	Z=FM H - 1500



#### NOTE

Position and measurements indicated above are those standard.

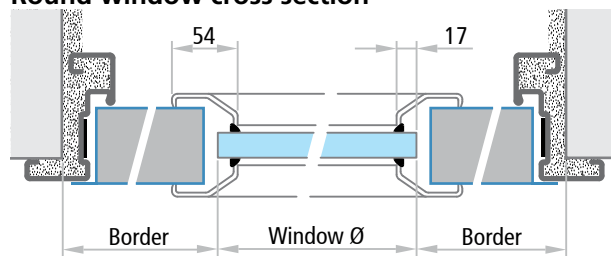
Different positions and measurements may be considered as long as they respect the minimum "a" and "b" border strips and maximal measurements mentioned in the certificate for the window. The window itself may not be supplied separately except for replacements. It is always advisable for doors with windows to be equipped with door closers for controlled closing.



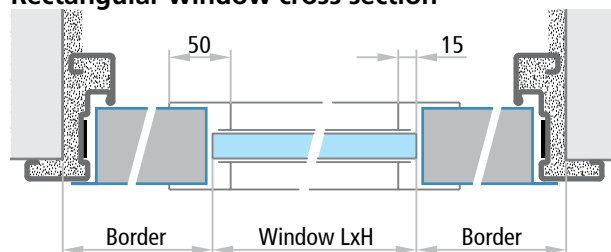
#### NOTE

For the rectangular windows the frame carters are an optional accessory

#### Round window cross section



#### Rectangular window cross section


















#### ATTENTION

In case of external installation use windows designed for this purpose.

For special instructions and recommendations for glazed fire-rated products, see the "Notices" section on the last page of the present brochure.


















## EI WINDOW SPECIFICATIONS BASED ON INSTALLATION METHOD

model	min./max. window			border strip		mortar fixing	expansion screws	lightweight constructions with embracing frame	block frame	EI <sub>60</sub>	EI <sub>90</sub>	EI <sub>120</sub>	dimensions FM L (L1 + L2) x FM H
	L	x	H	a	b								
	Ø 300			300	300	✓	✓	✓	✓	✓			from 900 to 1340 x from 1950 to 2600
	Ø 400			300	300	✓	✓	✓	✓	✓			from 1000 to 1340 x from 1950 to 2600
	Ø 300			300	300	✓	✓		✓			✓	from 900 to 1340 x from 1900 to 2640
	Ø 400			300	300	✓	✓		✓			✓	from 1000 to 1340 x from 1900 to 2640
	from 250 to 700		from 250 to 650	300	300	✓	✓	✓		✓			from 850 to 1340 x from 1950 to 2600
	from 250 to 670		from 250 to 620	300	300				✓	✓			from 850 to 1340 x from 1950 to 2600
	from 250 to 600		from 250 to 400	370	300	✓	✓		✓			✓	from 990 to 1340 x from 1900 to 2640
	Ø 300			300	300	✓	✓	✓	✓	✓			from 1250 ( 900 + 350) to 2540 (1270 + 1270) x from 1775 to 2600
	Ø 400			300	300	✓	✓	✓	✓	✓			from 1350 (1000 + 350) to 2540 (1270 + 1270) x from 1775 to 2600
	Ø 300			300	300	✓	✓		✓		✓		from 1475 ( 900 + 575) to 2270 (1150 + 1120) x from 1775 to 2300
	Ø 400			300	300	✓	✓		✓		✓		from 1575 (1000 + 575) to 2270 (1150 + 1120) x from 1775 to 2300
	Ø 300			300	300	✓	✓	✓	✓	✓			from 1800 ( 900 + 900) to 2540 (1270 + 1270) x from 1775 to 2600
	Ø 400			300	300	✓	✓	✓	✓	✓			from 2000 (1000 + 1000) to 2540 (1270 + 1270) x from 1775 to 2600
	Ø 300			300	300	✓	✓		✓		✓		from 1800 ( 900 + 900) to 2270 (1150 + 1120) x from 1775 to 2300
	Ø 400			300	300	✓	✓		✓		✓		from 2000 (1000 + 1000) to 2270 (1150 + 1120) x from 1775 to 2300
	from 250 to 700		from 250 to 650	300	300	✓	✓	✓		✓			from 1200 ( 850 + 350) to 2540 (1270 + 1270) x from 1775 to 2600
	from 250 to 670		from 250 to 620	300	300				✓	✓			from 1200 ( 850 + 350) to 2540 (1270 + 1270) x from 1775 to 2600
	from 250 to 600		from 250 to 400	300	300	✓	✓		✓		✓		from 1425 ( 850 + 575) to 2270 (1150 + 1120) x from 1775 to 2300
	from 250 to 700		from 250 to 650	300	300	✓	✓	✓		✓			from 1700 ( 850 + 850) to 2540 (1270 + 1270) x from 1775 to 2600
	from 250 to 670		from 250 to 620	300	300				✓	✓			from 1700 ( 850 + 850) to 2540 (1270 + 1270) x from 1775 to 2600
	from 250 to 600		from 250 to 400	300	300	✓	✓		✓		✓		from 1700 ( 850 + 850) to 2270 (1150 + 1120) x from 1775 to 2300

# Specific optional accessories

## PROGET Fire doors

### REI WINDOW SPECIFICATIONS BASED ON INSTALLATION METHOD

BASED ON INSTALLATION METHOD												
model	min./max. window			border strip		mortar fixing	subframe	expansion screws	plasterboard with embracing frame	REI 60	REI 120	dimensions FM L (L1 + L2) x FM H
	L	x	H	a	b							
	Ø 300			300	300		✓	✓	✓	✓	✓	from 900 to 1170 x from 1775 to 2275 from 1004 to 1340 x from 2050 to 2500
	Ø 400			300	300		✓	✓	✓	✓	✓	from 1000 to 1170 x from 1775 to 2275 from 1004 to 1340 x from 2050 to 2500
	from 250 to 400	from 250 to 600		250	300	✓				✓		from 750 to 900 x from 1775 to 2000
	from 250 to 400	from 250 to 600		300	300	✓				✓	✓	from 850 to 1000 x from 1775 to 2150
	from 250 to 620	from 250 to 400		360	300	✓				✓	✓	from 970 to 1340 x from 1775 to 2670
	from 250 to 564	from 250 to 443		300	300		✓	✓	✓	✓	✓	from 850 to 1170 x from 1775 to 2275 from 1004 to 1340 x from 2050 to 2500
 (*)	from 250 to 400	from 630 to 1400		250	300	✓				✓	✓	from 750 to 900 x from 1775 to 2000 from 779 to 1037 x from 1803 to 2197
 (*)	from 250 to 522	from 500 to 1460		320	300	✓					✓	from 890 to 1162 x from 1775 to 2620 from 997 to 1332 x from 2361 to 2670
	Ø 300			300	300		✓	✓	✓	✓	✓	from 1250 ( 900 + 350) to 2252 (1126 + 1126) x from 1775 to 2275** from 1962 ( 996 + 966) to 2540 (1270 + 1270) x from 2050 to 2500**
	Ø 400			300	300		✓	✓	✓	✓	✓	from 1350 (1000 + 350) to 2252 (1126 + 1126) x from 1775 to 2275** from 1966 (1000 + 966) to 2540 (1270 + 1270) x from 2050 to 2500**
	Ø 300			300	300		✓	✓	✓	✓	✓	from 1800 ( 900 + 900) to 2252 (1126 + 1126) x from 1775 to 2275** from 1962 ( 996 + 966) to 2540 (1270 + 1270) x from 2050 to 2500**
	Ø 400			300	300		✓	✓	✓	✓	✓	from 2000 (1000 + 1000) to 2252 (1126 + 1126) x from 1775 to 2275** from 2000 (1000 + 1000) to 2540 (1270 + 1270) x from 2050 to 2500**
	from 250 to 400	from 250 to 600		300	300	✓				✓	✓	from 1200 ( 850 + 350) to 2000 (1000 + 1000) x from 1775 to 2150**
	from 250 to 400	from 250 to 600		300	300	✓				✓	✓	from 1700 ( 850 + 850) to 2000 (1000 + 1000) x from 1775 to 2150**
	from 250 to 620	from 250 to 400		325	300	✓				✓	✓	from 1250 ( 900 + 350) to 2540 (1270 + 1270) x from 1775 to 2670**
	from 250 to 620	from 250 to 400		325	300	✓				✓	✓	from 1800 ( 900 + 900) to 2540 (1270 + 1270) x from 1775 to 2670**
	from 250 to 564	from 250 to 443		300	300		✓	✓	✓	✓	✓	from 1200 ( 850 + 350) to 2252 (1126 + 1126) x from 1775 to 2275** from 1962 ( 996 + 966) to 2540 (1270 + 1270) x from 2050 to 2500**
	from 250 to 564	from 250 to 443		300	300		✓	✓	✓	✓	✓	from 1700 ( 850 + 850) to 2252 (1126 + 1126) x from 1775 to 2275** from 1962 ( 996 + 966) to 2540 (1270 + 1270) x from 2050 to 2500**
 (*)	from 250 to 400	from 630 to 1400		250	300	✓				✓	✓	from 1100 ( 750 + 350) to 1800 ( 900 + 900) x from 1775 to 2000 from 1539 ( 772 + 767) to 2061 (1028 + 1033) x from 1803 to 2197
 (*)	from 250 to 515	from 500 to 1460		320	300	✓					✓	from 1240 ( 890 + 350) to 2315 (1155 + 1160) x from 1775 to 2620 from 1975 ( 989 + 986) to 2540 (1268 + 1272) x from 2361 to 2670

#### NOTE

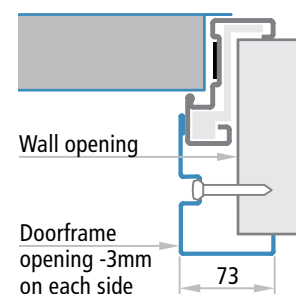
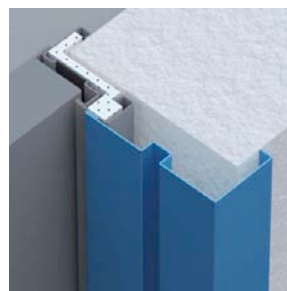
(\*) Windows only possible for the minimum size of 0,25m<sup>2</sup>, and only on one-leaved doors or the active leaf of two-leaved doors.

(\*\*) FM inactive leaf minimum without window with RC/STD =350mm. FM inactive leaf minimum without window but with RC2=370mm.

### FRAME EXTENSIONS FOR PROGET DOORS

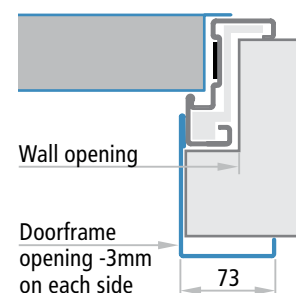
#### IM 1

Frame extension to be mounted in addition to the Proget frame to serve as embracing frame made of "Sendzimir" processed hot-galvanized sheet metal and painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 45 degree joint, fixing with screws and plugs in groove (screws and plugs not included).



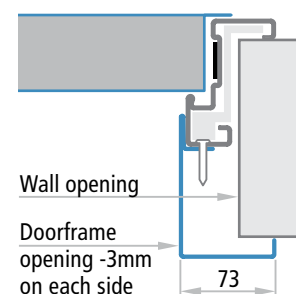
#### IM 3

Frame extension to be mounted in addition to the Proget frame to serve as embracing frame, especially for EI<sub>2</sub>90, EI<sub>2</sub>120 with installation for expansion screws fixing. Made of "Sendzimir" processed hot-galvanized sheet metal and painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 45 degree joint, fixing with screws and plugs (screws and plugs not included).



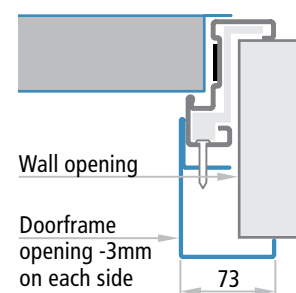
#### IM 4

Frame extension to be screwed to the Proget doorframe acting as a wall cladding. Made of "Sendzimir" processed hot-galvanized sheet metal painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint. Complete with fastener screws. To mount the frame extension, pre-drilled holes are available on the frame. Combine with sealing to conceal the screw heads.



#### IM 5

Telescopic frame extension to be screwed to the Proget doorframe acting as a wall cladding for expansion screw fixing. Consists of two overlapping profiles with a 25mm adjustable range. Made of "Sendzimir" processed hot-galvanized sheet metal painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint. Complete with fastener screws. To mount the frame extension, pre-drilled holes are available on the frame. Combine with sealing to conceal the screw heads.



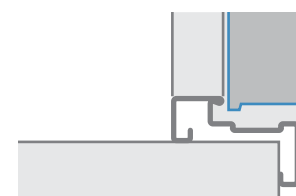
### FRAME ON FOUR SIDES

Upon request one-leaved Proget doors may be supplied with frames on four sides and leaves with or without lower rebate. These type of doors are used mainly for technical rooms or shafts.

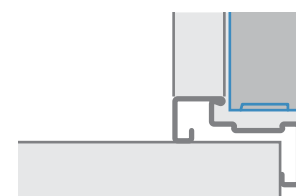
The frame on four sides is not available for the following applications: doors installed onto escape routes, two-leaved doors, doors with environmental characteristics, application on lightweight constructions, in combination with frame extensions.

#### ATTENTION

With the frame on four sides, the center of the handle will be 15 mm higher than the standard position. For more details, see the page "Door cross section - Measurements".



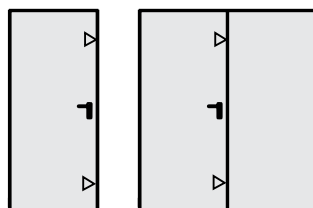
Leaf with lower rebate



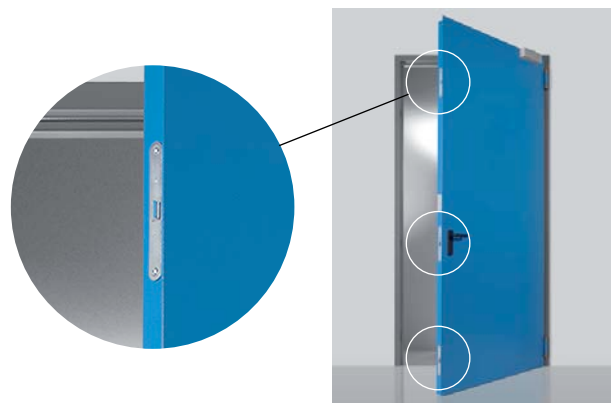
Leaf without lower rebate

## THREE-POINT LOCKING MECHANISM

Mandatory for one-leaved EI<sub>2</sub>120 doors and upon request for a more reliable closure of one- and two-leaved EI<sub>2</sub>60 and two-leaved EI<sub>2</sub>90 doors. In combination with double M1 handle and cylinder. The lock is also available for anti-panic and emergency push versions. Thus the three-point locking mechanism can be combined with emergency handles or with EXUS, TWIST, SLASH type BM panic bars in conformity with CE marking.



▷ Additional closure points



### NOTE

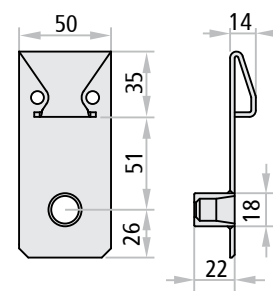
Three point locking mechanism can be combined with M1, M1C, M1X, M11 and M11X handles only.

## STEEL FLOOR CATCH

Floor-mounted steel floor catch for two-leaved Proget doors. Made of pierced and successively galvanized steel. Includes rebate stop for the inactive leaf, the strike box for insertion of the rod, Nr. 3 screws and Nr. 3 plugs. To be used in place of the plastic floor catch for doors that usually remain open and where carts and heavy equipment pass on a regular basis.



Lower PROGET steel floor catch



## RETREATING FLOOR CATCH „N626“

To be applied in combination with two-leaved PROGET doors, which are usually to be kept open, in substitution of the standard floor catch. The N626's advantage is the embedding of the floor catch into the floor which is activated only by the closing of the inactive leaf. Thus when the doors are open protrusions are avoided guaranteeing nevertheless a correct closing.

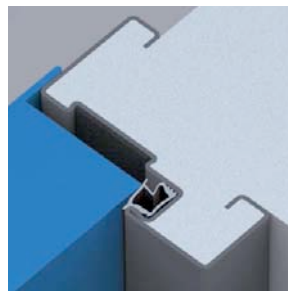


### NOTE

For the passing of the cable of the command function the installation into the floor of a wrinkled cable sleeve is necessary. The installation of the N626 requires trained personnel.

### FF REBATE SEALING

FF/CR sealing (for EI<sub>2</sub> doors) and FF sealing (for REI doors) in black extruded profile to cut and to be pressed into the dedicated groove in the perimetral frame and on the central joint of two-leaved doors.

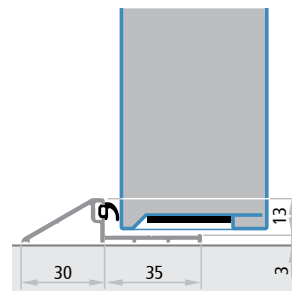


### THRESHOLD

Fixed threshold in anodized aluminium supplied with relative rebate sealing. To be installed for single and double leaved doors onto the floor with screws and plugs (not supplied).

#### NOTE

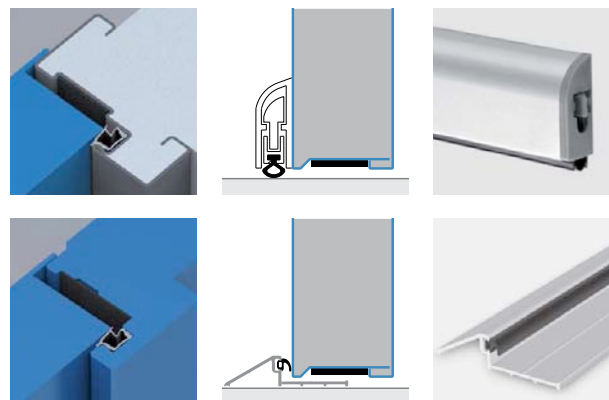
This device is delivered only when the door has been ordered with thermal insulating characteristics. For the installation it is necessary to adapt the threshold to the frame of the door and to drill a hole for its fixing. Further it is necessary to finish up the threshold with silicone.



### ENVIRONMENTAL CHARACTERISTICS OF FIRE DOORS

The norms EN 14351-1 (external doors) and EN 14351-2 (internal doors) are not applicable for fire rated doors, nevertheless they may be taken as a reference to determine the environmental characteristics of the latter. **CE** marking is not mandatory, tests for their classification are purely provided on a voluntarily basis.

The Proget pricelist lists Kits which add this environmental characteristic to the door.



Test Report Summary & Expert Statement		ift ROSENHEIM
Airborne sound insulation of building components		
Report-No. 12-001195-PR01 (GAS-C02-04-en-01)		
Client	NINZ s.p.a. Corso Trento 2/A 38061 ALA Italy	
Product	Fire door, single and double leaf	
Designation	PROGET REI 120 - PROGET EP 90 / 120	
Door frame	Steel frame variants with infill panel	
Coordinating dimensions	Width 0.80 m ... 1.34 m (single leaf)/1.00 m ... 2.66 m (double leaf), height: 2.00 m ... 2.67 m	
Door leaf	Steel door with insulating insert and optional glazed panel	
Door leaf dimensions	Width 0.40 m ... 1.327 m, Height: 1.99 m ... 2.66 m	
Glazing	Variants: single, laminated or insulating glass unit	
Rebate seats	1 frame rebate seat	
Floor seats	1 automatic floor seal (drop seal)	
<p>Weighted sound reduction index <math>R_w</math> Spectrum adaptation terms C and <math>C_w</math></p> <p>Design variants up to  <math>R_w (C; C_w) = 36 (-1, -3) \text{ dB}</math>  as per Section 4.2</p>		
<p>ift Rosenheim 10.05.2012</p> <p><i>J. Keminger</i> Dr. Joachim Hessinger, Dipl.-Phys. Head of Testing Department Building Physics</p> <p><i>H. Baume</i> Johann Baume, Dipl.-Ing. (FH) Operating Testing Officer Building Acoustics</p>		

### ATTENTION

For the dimensional limits according to the certificates and homologations of the fire rated doors and regarding the minimum borders please refer to the specific pages of this brochure.

The values for the thermal transmittance  $W/m^2K$  shown in the table on the next page are given by the calculation according to the norm EN ISO 10077-1 done on samples of the dimensions 1,23x2,18 for areas  $\leq 3,6m^2$  and on samples of the dimensions 2,00x2,18 for areas  $> 3,6m^2$ .

All performance values indicated in the table are valid only in presence of the following accessories or enhancements:

- standard frame to be installed with wall anchors and mortar or with screws and plugs
- embracing frame prepared for the installation onto lightweight constructions
- isolation of the frame with the filling of cement or plasterboard
- installation of rubber seals FF along the entire perimeter of the door frame including the central rebate for double leaved doors
- RC2 closing regulator (instead of RC/STD) for two leaved doors
- presence of the automatic door sweep or the fixed lower threshold depending upon selected solution.

In case of windows with dimensions larger than those tested (300x400mm), up to a maximum size of 400x600mm the differing performance value for the thermal transmittance needs to be asked, the performance value for acoustic isolation remains unchanged.

For the acoustic isolation performance values, in case of asymmetric double leaved doors ( $L1 \neq L2$ ), select the minor  $R_w$  value of the two (example 1: leaf without windows and  $H=2150$ ,  $L1=1000$ ,  $L2=500$  select 32 dB; example 2: leaf without windows and  $H=2150$ ,  $L1=1200$ ,  $L2=1000$  select 35 dB).

## Performance requirements and classification

Performance requirements and classification			standard angular frame	embracing frame	block frame for in the reveal applic.	reached class with FF or FF/CR rebate sealing and automatic door sweep		reached class with FF or FF/CR rebate sealing and fix threshold		
	FM L x H dimensions	class				air permeability class according to EN 1026:2001	thermal transmittance (W/m²K) according to EN 10077-1:2007	acoustic performance according to EN 14351-1:2006	air permeability class according to EN 1026:2001	thermal transmittance (W/m²K) according to EN 10077-1:2007
<div><div>without window</div><div>-</div></div>	≤ 3,6 m²	EI₂60, REI 60	✓			2	1,37	2	1,35	1A
	≤ 3,6 m²	EI₂60, REI 60		✓		2	1,51	2	1,50	1A
	≤ 3,6 m²	EI₂60			✓	2	1,52	2	1,51	1A
	≤ 3,6 m²	EI₂120, REI 120	✓			2	1,39	2	1,38	1A
	≤ 3,6 m²	EI₂120			✓	2	1,54	2	1,53	1A
	≤ 3,6 m²	REI 120		✓		2	1,53	2	1,52	1A
	800 - 1100 x 2000 - 2250	EI₂90/120, REI 120	✓	✓			Rw = 36 dB			
	1101 - 1340 x 2000 - 2250	EI₂90/120, REI 120	✓	✓			Rw = 35 dB			
	800 - 1340 x 2251 - 2670	EI₂90/120, REI 120	✓	✓			Rw = 34 dB			
	546 - 1150 x 1775 - 2150	ALL	✓	✓	✓					C1
<div><div>with window 300x400</div><div></div></div>	≤ 3,6 m²	EI₂60, REI 60	✓			2	1,89	2	1,88	1A
	≤ 3,6 m²	EI₂60, REI 60		✓		2	2,02	2	2,01	1A
	≤ 3,6 m²	EI₂60			✓	2	2,03	2	2,02	1A
	≤ 3,6 m²	EI₂120, REI 120	✓			2	1,84	2	1,83	1A
	≤ 3,6 m²	EI₂120			✓	2	1,98	2	1,97	1A
	≤ 3,6 m²	REI 120		✓		2	1,97	2	1,96	1A
	800 - 1100 x 2000 - 2250	EI₂90/120, REI 120	✓	✓			Rw = 36 dB			
	1101 - 1340 x 2000 - 2250	EI₂90/120, REI 120	✓	✓			Rw = 35 dB			
	800 - 1340 x 2251 - 2670	EI₂90/120, REI 120	✓	✓			Rw = 34 dB			
	900 - 1150 x 1775 - 2150	ALL	✓	✓	✓					C1
<div><div>without windows</div><div>-</div><div></div></div>	≤ 3,6 m²	EI₂60, REI 60	✓			3	1,80	3	1,78	2A, 4B
	> 3,6 m²	EI₂60, REI 60	✓			3	1,45	3	1,44	2A, 4B
	≤ 3,6 m²	EI₂60, REI 60		✓		3	1,93	3	1,91	2A, 4B
	> 3,6 m²	EI₂60, REI 60		✓		3	1,55	3	1,54	2A, 4B
	≤ 3,6 m²	EI₂60			✓	3	1,94	3	1,92	2A, 4B
	> 3,6 m²	EI₂60			✓	3	1,56	3	1,55	2A, 4B
	≤ 3,6 m²	EI₂90			✓	3	1,95	3	1,94	2A, 4B
	> 3,6 m²	EI₂90			✓	3	1,58	3	1,56	2A, 4B
	≤ 3,6 m²	EI₂90, REI 120	✓			3	1,80	3	1,79	2A, 4B
	> 3,6 m²	EI₂90, REI 120	✓			3	1,47	3	1,46	2A, 4B
	≤ 3,6 m²	REI 120		✓		3	1,93	3	1,92	2A, 4B
	> 3,6 m²	REI 120		✓		3	1,56	3	1,55	2A, 4B
	(L1 o L2) 500 - 799 x 2000 - 2670	EI₂90/120, REI 120	✓	✓			Rw = 32 dB			
	(L1 o L2) 800 - 1100 x 2000 - 2250	EI₂90/120, REI 120	✓	✓			Rw = 36 dB			
	(L1 o L2) 1101 - 1330 x 2000 - 2250	EI₂90/120, REI 120	✓	✓			Rw = 35 dB			
	(L1 o L2) 800 - 1330 x 2251 - 2670	EI₂90/120, REI 120	✓	✓			Rw = 34 dB			
	890 - 2300 x 1775 - 2150	ALL	✓	✓	✓					C1
<div><div>with windows 300x400</div><div></div><div></div><div></div></div>	≤ 3,6 m²	EI₂60, REI 60	✓			3	2,91	3	2,80	2A, 4B
	> 3,6 m²	EI₂60, REI 60	✓			3	2,14	3	2,08	2A, 4B
	≤ 3,6 m²	EI₂60, REI 60		✓		3	3,04	3	2,94	2A, 4B
	> 3,6 m²	EI₂60, REI 60		✓		3	2,24	3	2,17	2A, 4B
	≤ 3,6 m²	EI₂60			✓	3	3,06	3	2,95	2A, 4B
	> 3,6 m²	EI₂60			✓	3	2,25	3	2,18	2A, 4B
	≤ 3,6 m²	EI₂90			✓	3	2,85	3	2,84	2A, 4B
	> 3,6 m²	EI₂90			✓	3	2,13	3	2,12	2A, 4B
	≤ 3,6 m²	EI₂90, REI 120	✓			3	2,70	3	2,69	2A, 4B
	> 3,6 m²	EI₂90, REI 120	✓			3	2,03	3	2,02	2A, 4B
	≤ 3,6 m²	REI 120		✓		3	2,83	3	2,82	2A, 4B
	> 3,6 m²	REI 120		✓		3	2,12	3	2,11	2A, 4B
	(L1 o L2) 500 - 799 x 2000 - 2670	EI₂90/120, REI 120	✓	✓			Rw = 32 dB			
	(L1 o L2) 800 - 1100 x 2000 - 2250	EI₂90/120, REI 120	✓	✓			Rw = 36 dB			
	(L1 o L2) 1101 - 1330 x 2000 - 2250	EI₂90/120, REI 120	✓	✓			Rw = 35 dB			
	(L1 o L2) 800 - 1330 x 2251 - 2670	EI₂90/120, REI 120	✓	✓			Rw = 34 dB			
	1250 * - 2300 x 1775 - 2150	ALL	✓	✓	✓					C1

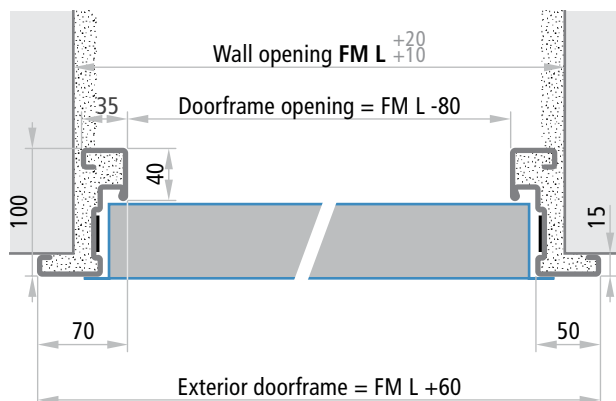
\* = only for single leaf with window

# Door cross sections - Measurements

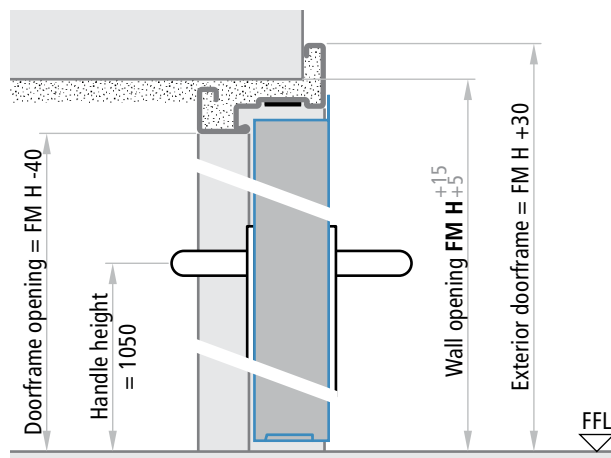
PROGET Fire doors

**NINZ**<sup>®</sup>  
FIREDOORS

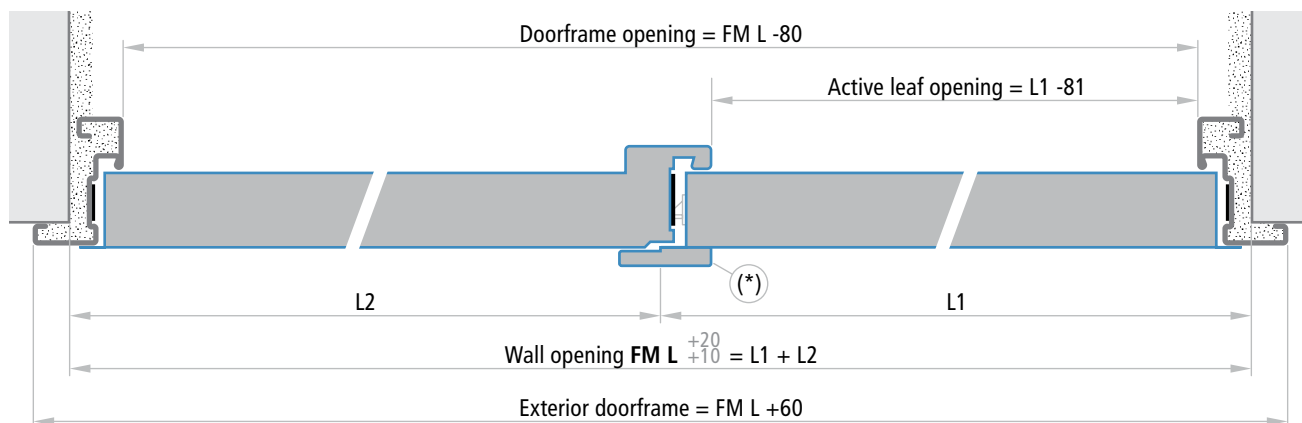
**One-leaved doors - Horizontal cross section**



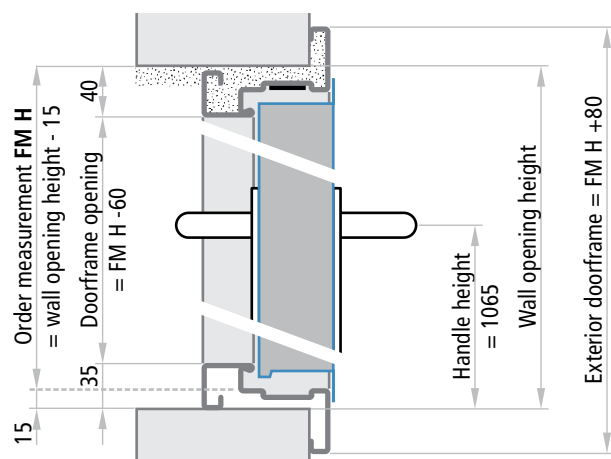
**Doors without lower threshold - Vertical cross section**



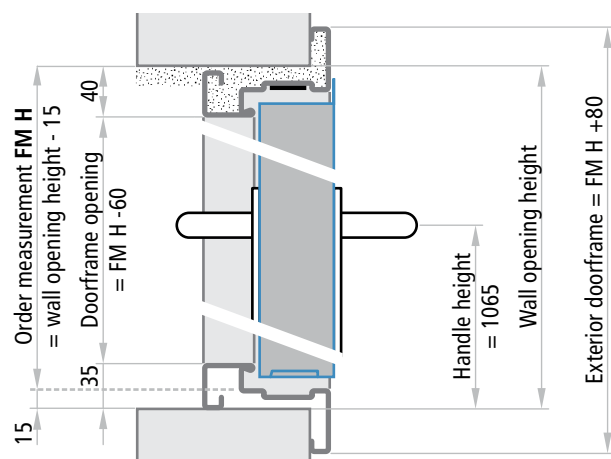
**Two-leaved doors - Horizontal cross section**



**One-leaved doors with frame on 4 sides and leaf with lower rebate - Vertical cross section**



**One-leaved doors with frame on 4 sides and leaf without lower rebate - Vertical cross section**



## Leaf thickness

El<sub>2</sub>60, El<sub>2</sub>90, El<sub>2</sub>120, REI 60, REI 120 60 mm

## NOTE

The tolerances FM L +20/-10, FM H +15/-5 of the indicated measurements make it easier to fill the gap between the wall and the doorframe with cement mortar.

For dry wall installation, the holes must be precise and greater tolerance ranges should not be employed.

(\*) Proget El<sub>2</sub>90 two leaved doors feature an additional central rebate profile, which is applied onto the active leaf.

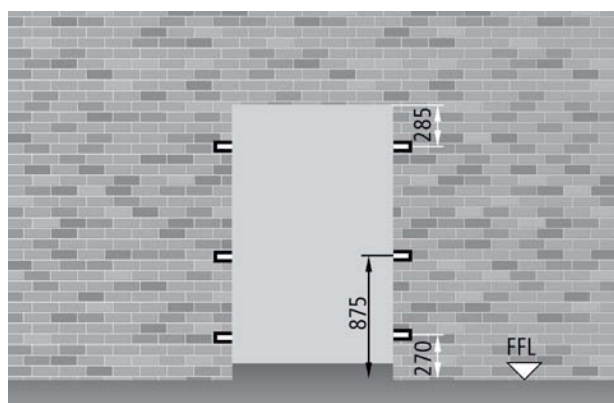
## INSTALLATION WITH ANCHORS FOR MORTAR FIXING

The standard installation method for Proget doors is to use the anchors for mortar fixing. Appropriate cuts will need to be created in the walls (section 80 x 200 mm). The anchors should be bent and blocked inside the wall. For fire sealing purposes and a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled with concrete mortar.

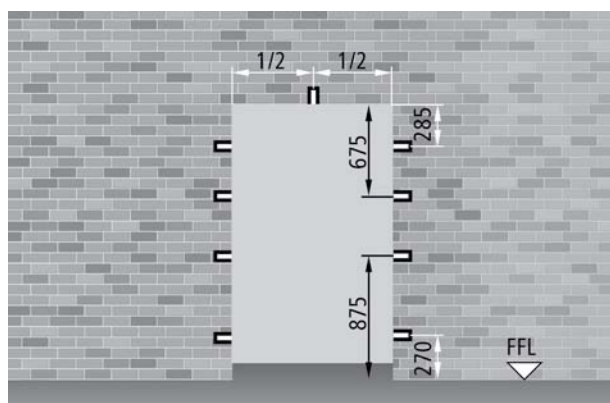


### One-leaved doors

FM L = from 500 to 1035 x FM H = from 1775 to 2200

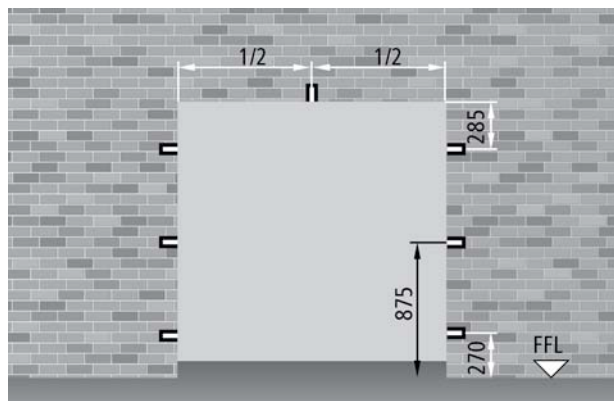


FM L greater than 1035 and/or FM H greater than 2200

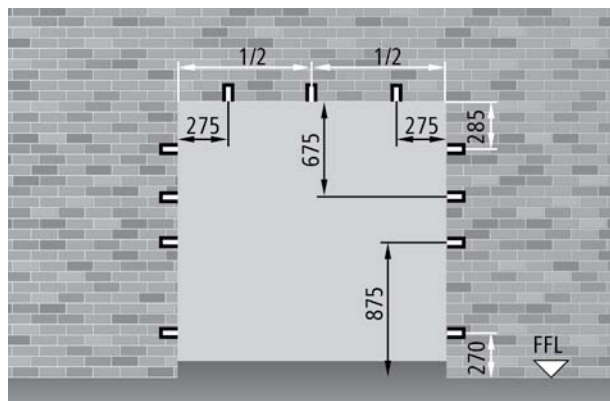


### Two-leaved doors

FM L = from 850 to 2070 x FM H = from 1775 to 2200



FM L greater than 2070 and/or FM H greater than 2200



#### NOTE

For proper installation, the cuts for the anchors should be 80 x 200 mm in size.

## DRY WALL INSTALLATION ONTO THE SUBFRAME WITH SCREWS

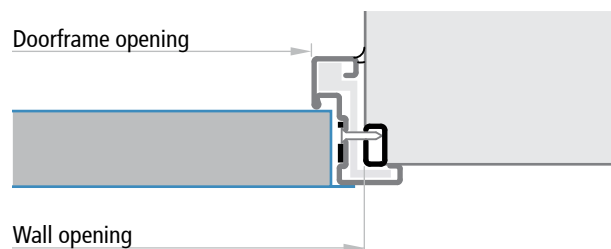
Installation method certified for one- or two-leaved REI 60 and REI 120 doors, in conformity with UNI 9723 standard, for screw fixing onto metal subframes in the walls.

Subframes need to be ordered separately from the door. Make sure measurements correspond to the door's FM L x FM H measurements.

For the technical characteristics of the subframe, see the specific page of the section "accessories doors".

The supplied doorframe comes factory heat-insulated with special materials and includes corner joints and a lower spacer (except for one-leaved doors with frame on four sides) to be added on site.

The subframe method allows a "dry wall" installation of the doors, making an installation onto finished masonry possible.



## INSTALLATION FOR EXPANSION SCREWS FIXING

Installation method certified for: one- or two-leaved EI<sub>2</sub>60, REI 60, REI 120, EI<sub>2</sub>90 two-leaved and EI<sub>2</sub>120 one-leaved doors, for expansion screws. Designed for installations onto blockwork, masonry or homogenous concrete wall, with density of (1200±400)kg/m<sup>3</sup> and a thickness of (200±50)mm.

The supplied doorframe comes factory heat-insulated with special materials and includes corner joints and a lower spacer (except for one-leaved doors with frame on four sides) to be added on site.

This method allows for "dry wall" installation of the doors without requiring any additional masonry work. Installation of the door, therefore, becomes a simple mechanical operation plus the final adjustments.

### NOTE

Please specify clearly whether the door is for subframe installation or for direct wall installation with expansion screws.

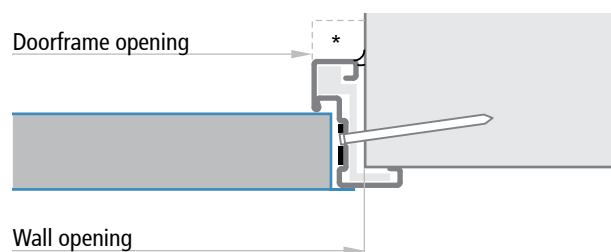
\* concealing with concrete mandatory for EI<sub>2</sub>90 and EI<sub>2</sub>120 fire-rated doors.



EI<sub>2</sub>60, REI 60 and REI 120 doors



EI<sub>2</sub>90, EI<sub>2</sub>120 doors



## WALL SCREWS

For direct wall installations or installation onto subframes, special expansion screws should be used without plugs. Please see the "door accessories" pages for more details.



## BLOCK FRAME FOR IN THE REVEAL APPLICATION

Installation method certified for one- and two-leaved EI<sub>2</sub>60, one-leaved EI<sub>2</sub>120 or two-leaved EI<sub>2</sub>90 doors.

The supplied frame comes factory heat-insulated with special materials and includes corner joints and pre-drilled screw holes on the rebate. Installation for expansion screws (not supplied).

This method allows for "dry wall" installation of the doors without requiring any additional masonry work. Installation of the door, therefore, becomes a simple mechanical operation plus the final adjustments.



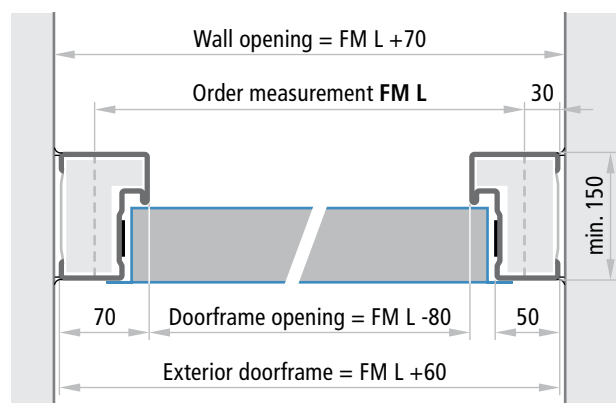
### ATTENTION

Acoustic performance values are not valid in case of block frame for in the reveal application.

## DOOR CROSS SECTIONS - MEASUREMENTS

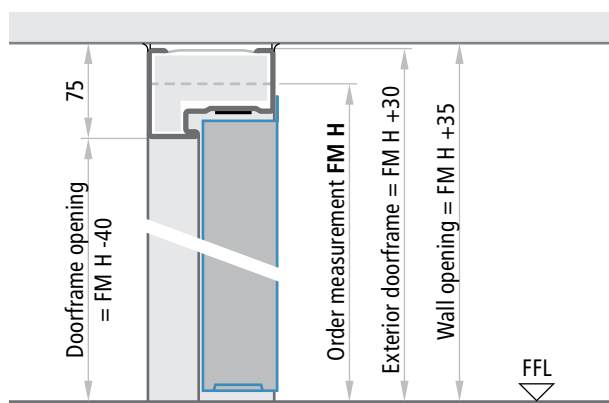
### One-leaved doors

Horizontal cross section



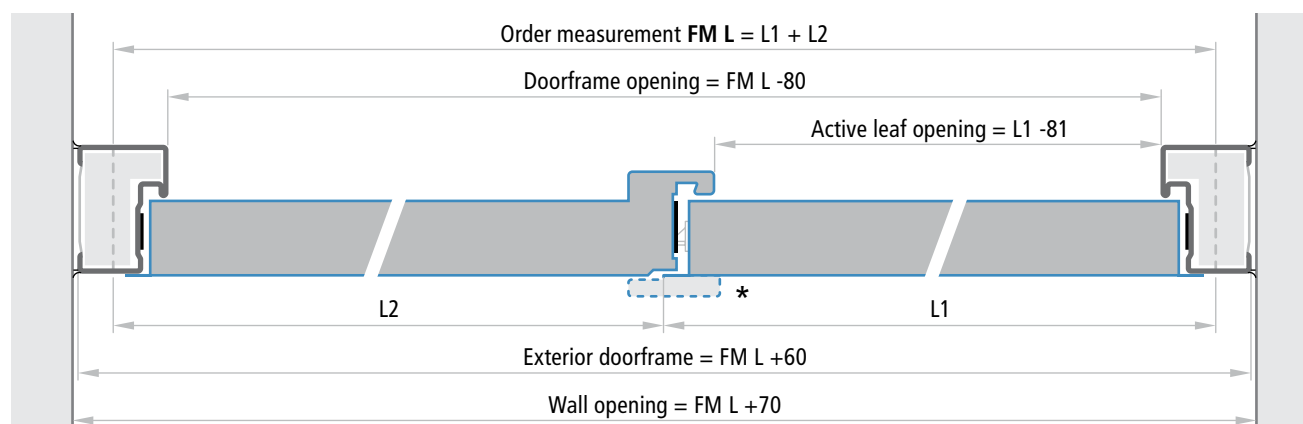
### Doors without lower threshold

Vertical cross section



### Two-leaved doors

Horizontal cross section



### NOTE

Expansion screws recommended:

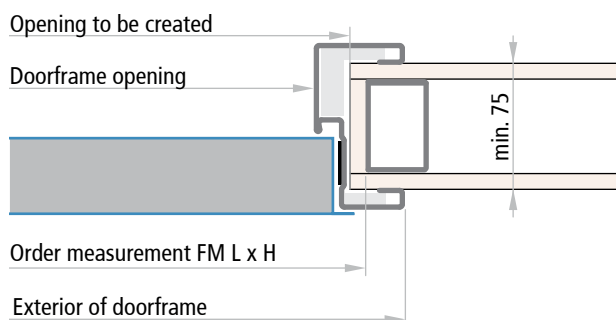
- for light wall Würth type DBL-(WUS-SK)-Z3-180-10x202
- for heavy wall Spit type L 10 - 102/152


(\*) Proget EI<sub>2</sub>90 two leaved doors feature an additional isolated central rebate profile, which is applied onto the active leaf.

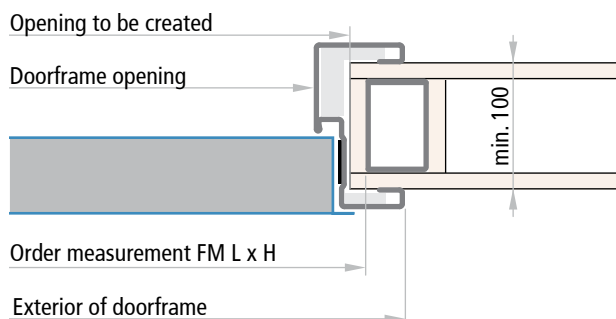
## LIGHTWEIGHT CONSTRUCTION INSTALLATION WITH EMBRACING FRAME


Installation method onto lightweight constructions certified for one- or two-leaved EI<sub>2</sub>60, REI 60 and REI 120 doors. The supplied frame comes factory heat-insulated with special materials and includes corner joints and pre-drilled screw holes with cover caps.

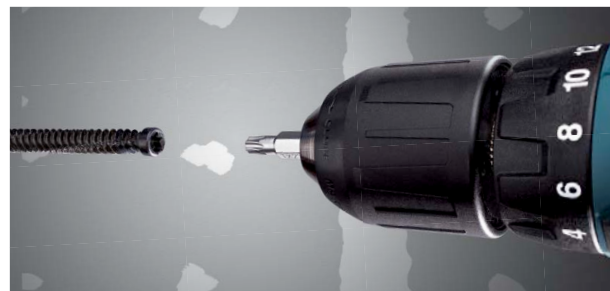
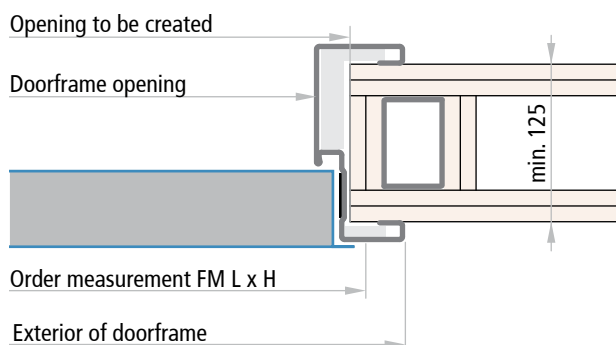
Door cross section and lightweight construction version:  EI<sub>2</sub>60



Door cross section and plasterboard version:  REI 60



Door cross section and plasterboard version:  REI 120



### Lightweight constructions EI<sub>2</sub>60

EI<sub>2</sub>60 fire-rated doorsets can be installed onto every wall or partition which is of the board covered type with studs made from metal or timber with a fire resistance equal to or greater than the EI60 supporting construction.

Order measurement	required wall opening	doorframe opening	exterior of doorframe
FM L (width)	FM L - 25 mm	FM L - 80 mm	FM L + 60 mm
FM H (height)	FM H - 12 mm	FM H - 40 mm	FM H + 30 mm

#### NOTE

Lightweight constructions should be done following the specific door installation instructions.

### Plasterboard walls REI 60

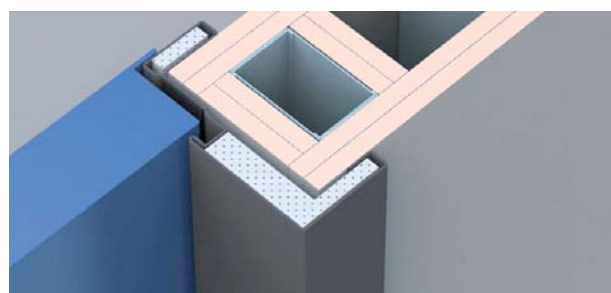
Made using galvanized steel frames with "U"-shaped 75x40mm min. guide profiles, "C"-shaped 75x47mm min. vertical profiles (doubled next to the doorframe), with a single layer of 12,5mm min. thick fire rated plasterboard used as finishing on both sides and on the profiles around the doorframe.

Order measurement	Required wall opening	Doorframe opening	Exterior of doorframe
FM L (width)	FM L - 25 mm	FM L - 80 mm	FM L + 60 mm
FM H (height)	FM H - 12 mm	FM H - 40 mm	FM H + 30 mm

### Plasterboard walls REI 120

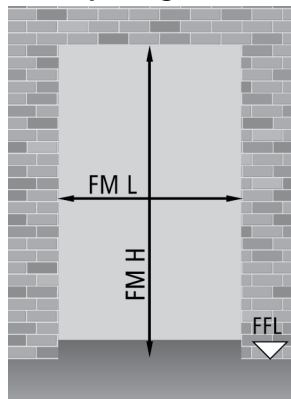
Made using galvanized steel framing with "U"-shaped 75x40mm min. guide profiles, "C"-shaped 75x47mm min. vertical profiles (doubled next to the doorframe), with a double layer of 12,5mm min. thick fire rated plasterboard used as finishing on both sides and on the profiles around the doorframe.

Order measurement	required wall opening	doorframe opening	exterior of doorframe
FM L (width)	FM L - 25 mm	FM L - 80 mm	FM L + 60 mm
FM H (height)	FM H - 12 mm	FM H - 40 mm	FM H + 30 mm

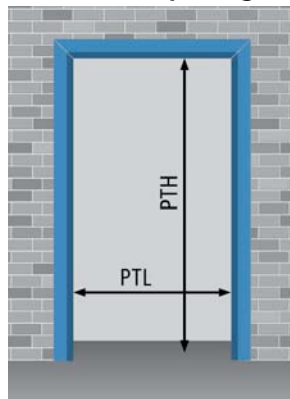


## ORDER MEASUREMENTS

### Wall opening

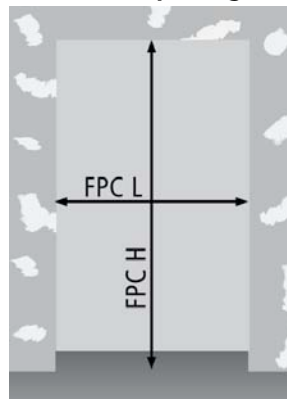


### Doorframe opening



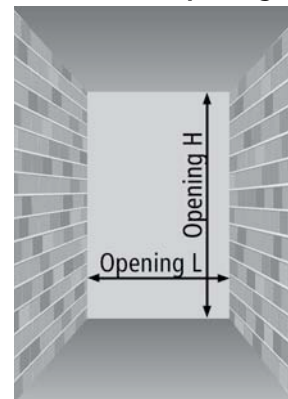
$$\begin{aligned} PTL &= FM L - 80 \\ PTH &= FM H - 40 \end{aligned}$$

### Lightweight constructions wall opening



$$\begin{aligned} FPC L &= FM L - 25 \\ FPC H &= FM H - 12 \end{aligned}$$

### Block frame opening



$$\begin{aligned} \text{Opening L} &= FM L + 70 \\ \text{Opening H} &= FM H + 35 \end{aligned}$$

#### NOTE

The wall openings to be created for the embracing frame or the block frame for in the reveal application, do not correspond to the order measurement and therefore should follow the above specifications.

### One-leaved doors

FM L x FM H	PT L x PT H (doorframe opening)		fire-rating
standard dimensions	frame on 3 sides	frame on 4 sides	class
800 x 2000 / 2050 / 2100 / 2150 / 2200	720 x 1960 / 2010 / 2060 / 2110 / 2160	720 x 1940 / 1990 / 2040 / 2090 / 2140	EI <sub>2</sub> 60, EI <sub>2</sub> 120, REI 60, REI 120
900 x 2000 / 2050 / 2100 / 2150 / 2200	820 x 1960 / 2010 / 2060 / 2110 / 2160	820 x 1940 / 1990 / 2040 / 2090 / 2140	EI <sub>2</sub> 60, EI <sub>2</sub> 120, REI 60, REI 120
1000 x 2000 / 2050 / 2100 / 2150 / 2200	920 x 1960 / 2010 / 2060 / 2110 / 2160	920 x 1940 / 1990 / 2040 / 2090 / 2140	EI <sub>2</sub> 60, EI <sub>2</sub> 120, REI 60, REI 120
1100 x 2050 / 2100 / 2150 / 2200	1020 x 2010 / 2060 / 2110 / 2160	1020 x 1990 / 2040 / 2090 / 2140	EI <sub>2</sub> 60, EI <sub>2</sub> 120, REI 120
1200 x 2050 / 2100 / 2150 / 2200	1120 x 2010 / 2060 / 2110 / 2160	1120 x 1990 / 2040 / 2090 / 2140	EI <sub>2</sub> 60, EI <sub>2</sub> 120, REI 120
1300 x 2000 / 2050 / 2100 / 2150 / 2200	1220 x 1960 / 2010 / 2060 / 2110 / 2160	1220 x 1940 / 1990 / 2040 / 2090 / 2140	EI <sub>2</sub> 60, EI <sub>2</sub> 120, REI 60, REI 120
1340 x 2050 / 2100 / 2150 / 2200	1260 x 2010 / 2060 / 2110 / 2160	1260 x 1990 / 2040 / 2090 / 2140	EI <sub>2</sub> 60, EI <sub>2</sub> 120, REI 120
<b>semi-standard dimensions</b>			
from 670 to 995 x 2000 / 2050 / 2150	from 590 to 915 x 1960 / 2010 / 2110	from 590 to 915 x 1940 / 1990 / 2090	EI <sub>2</sub> 60
from 710 to 995 x 2000 / 2050 / 2150	from 630 to 915 x 1960 / 2010 / 2110	from 630 to 915 x 1940 / 1990 / 2090	EI <sub>2</sub> 120
from 546 to 995 x 2000 / 2050 / 2150	from 466 to 915 x 1960 / 2010 / 2110	from 466 to 915 x 1940 / 1990 / 2090	REI 60, REI 120
<b>non standard dimensions</b>			
from 670 to 1340 x from 1950 to 2600	from 590 to 1260 x from 1910 to 2560	from 590 to 1260 x from 1890 to 2540	EI <sub>2</sub> 60
from 710 to 1340 x from 1900 to 2640	from 630 to 1260 x from 1860 to 2600	from 630 to 1260 x from 1840 to 2580	EI <sub>2</sub> 120
from 546 to 1340 x from 1775 to 2670	from 466 to 1260 x from 1735 to 2630	from 466 to 1260 x from 1715 to 2610	REI 60, REI 120 anchor fixing
from 600 to 1170 x from 1775 to 2275	from 520 to 1090 x from 1735 to 2235	from 520 to 1090 x from 1715 to 2215	REI 60, REI 120 embracing frame
from 1004 to 1340 x from 2050 to 2500	from 924 to 1260 x from 2010 to 2460	from 924 to 1260 x from 1990 to 2440	REI 60, REI 120 embracing frame
from 600 to 1170 x from 1775 to 2275	from 520 to 1090 x from 1735 to 2235	from 520 to 1090 x from 1715 to 2215	REI 60, REI 120 subframe or expansion screw
from 1004 to 1340 x from 2050 to 2500	from 924 to 1260 x from 2010 to 2460	from 924 to 1260 x from 1990 to 2440	REI 60, REI 120 subframe or expansion screw

# Order measurements - Handle height

## PROGET Fire doors



### Two-leaved doors FM L x FM H

#### standard dimensions

standard dimensions	PT L x PT H	fire-rating
1150 ( 800 + 350) x 2000 / 2050 / 2100 / 2150 / 2200	1070 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, REI 60, REI 120
1200 ( 800 + 400) x 2000 / 2050 / 2100 / 2150 / 2200	1120 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, REI 60, REI 120
1250 ( 800 + 450) x 2000 / 2050 / 2100 / 2150 / 2200	1170 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, REI 60, REI 120
1250 ( 900 + 350) x 2000 / 2050 / 2100 / 2150 / 2200	1170 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, REI 60, REI 120
1300 ( 900 + 400) x 2000 / 2050 / 2100 / 2150 / 2200	1220 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, REI 60, REI 120
1350 ( 900 + 450) x 2000 / 2050 / 2100 / 2150 / 2200	1270 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, REI 60, REI 120
1350 (1000 + 350) x 2000 / 2050 / 2100 / 2150 / 2200	1270 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, REI 60, REI 120
1400 (1000 + 400) x 2000 / 2050 / 2100 / 2150 / 2200	1320 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, REI 60, REI 120
1450 (1000 + 450) x 2000 / 2050 / 2100 / 2150 / 2200	1370 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, REI 60, REI 120
1600 ( 800 + 800) x 2000 / 2050 / 2100 / 2150 / 2200	1520 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, El <sub>2</sub> 90, REI 60, REI 120
1700 ( 900 + 800) x 2000 / 2050 / 2100 / 2150 / 2200	1620 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, El <sub>2</sub> 90, REI 60, REI 120
1800 ( 900 + 900) x 2000 / 2050 / 2100 / 2150 / 2200	1720 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, El <sub>2</sub> 90, REI 60, REI 120
1800 (1000 + 800) x 2000 / 2050 / 2100 / 2150 / 2200	1720 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, El <sub>2</sub> 90, REI 60, REI 120
1900 (1000 + 900) x 2000 / 2050 / 2100 / 2150 / 2200	1820 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, El <sub>2</sub> 90, REI 60, REI 120
2000 (1000 + 1000) x 2000 / 2050 / 2100 / 2150 / 2200	1920 x 1960 / 2010 / 2060 / 2110 / 2160	El <sub>2</sub> 60, El <sub>2</sub> 90, REI 60, REI 120

#### semi-standard dimensions

from 890 (540 + 350) to 2000 (1000 + 1000) x 2000 / 2050 / 2150	from 810 to 1920 x 1960 / 2010 / 2110	El <sub>2</sub> 60, REI 60, REI 120
from 1175 (600 + 575) to 2000 (1000 + 1000) x 2000 / 2050 / 2150	from 1095 to 1920 x 1960 / 2010 / 2110	El <sub>2</sub> 90

#### non standard dimensions

from 890 (540 + 350) to 2540 (1270 + 1270) x from 1775 to 2600	from 810 to 2460 x from 1735 to 2560	El <sub>2</sub> 60
from 1175 (600 + 575) to 2540 (1270 + 1270) x from 1775 to 2300	from 1095 to 2460 x from 1735 to 2260	El <sub>2</sub> 90
from 1175 (600 + 575) to 2500 (1250 + 1250) x from 2301 to 2500	from 1095 to 2420 x from 2261 to 2460	El <sub>2</sub> 90
from 1175 (600 + 575) to 2380 (1200 + 1180) x from 2501 to 2630	from 1095 to 2300 x from 2461 to 2590	El <sub>2</sub> 90
from 890 (540 + 350) to 2540 (1270 + 1270) x from 1775 to 2670	from 810 to 2460 x from 1735 to 2630	REI 60, REI 120 anchor fixing
from 890 (540 + 350) to 2298 (1164 + 1134) x from 1775 to 2275	from 810 to 2218 x from 1735 to 2235	REI 60, REI 120 embracing frame
from 1962 (996 + 966) to 2540 (1270 + 1270) x from 2050 to 2500	from 1882 to 2460 x from 2010 to 2460	REI 60, REI 120 embracing frame
from 890 (540 + 350) to 2298 (1164 + 1134) x from 1775 to 2275	from 810 to 2218 x from 1735 to 2235	REI 60, REI 120 subframe or expansion screw
from 1962 (996 + 966) to 2540 (1270 + 1270) x from 2050 to 2500	from 1882 to 2460 x from 2010 to 2460	REI 60, REI 120 subframe or expansion screw

### NOTE

The following doors with standard measurements are equipped with a CP1 door closer:

El<sub>2</sub>90 2 leaves: from 2271 to 2540 x from 2151 to 2300  
from 1801 to 2500 x from 2301 to 2500  
from 1801 to 2380 x from 2501 to 2630

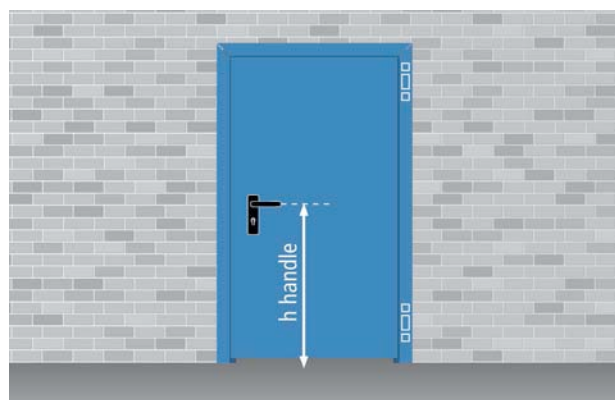
El<sub>2</sub>120 1 leaf: from 1126 to 1340 x from 2301 to 2500  
from 901 to 1340 x from 2501 to 2640  
REI 120 1 leaf: from 1126 to 1340 x from 2301 to 2500  
from 901 to 1340 x from 2501 to 2670  
2 leaves: from 2251 to 2540 x from 2151 to 2300  
from 1801 to 2540 x from 2301 to 2670

## HANDLE HEIGHT

### One-leaved door

h = 1050 (FM H ≥ 1750).

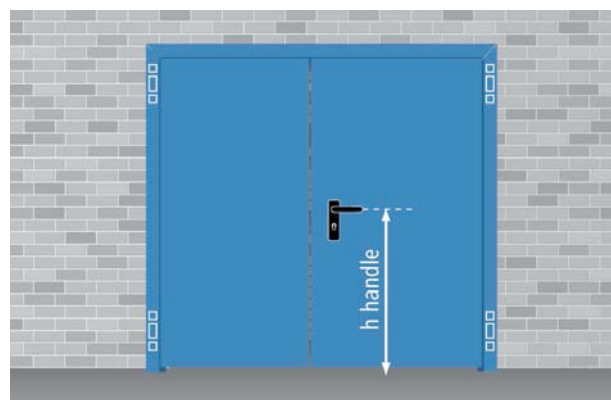
Different heights available upon request only



### Two-leaved door

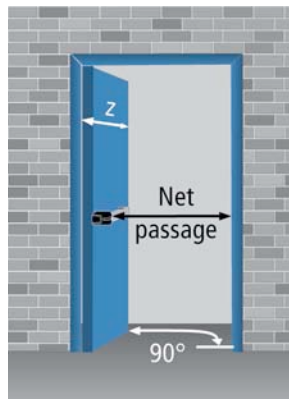
h = 1050 (FM H ≥ 1750)

Different heights available upon request only

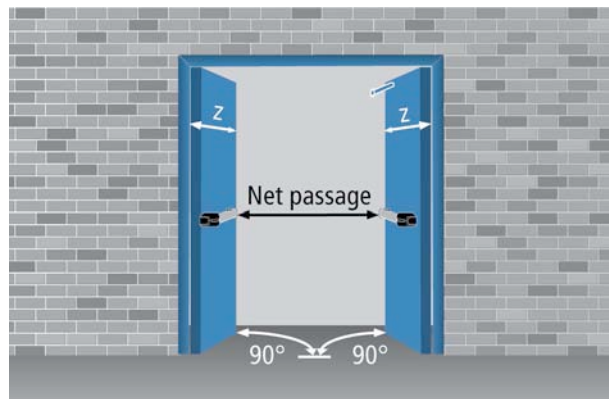


## OPENING MEASUREMENTS AND OVERALL DIMENSIONS WITH 90 DEGREE OPENING

### One-leaved doors with panic bar



### Two-leaved doors with panic bars



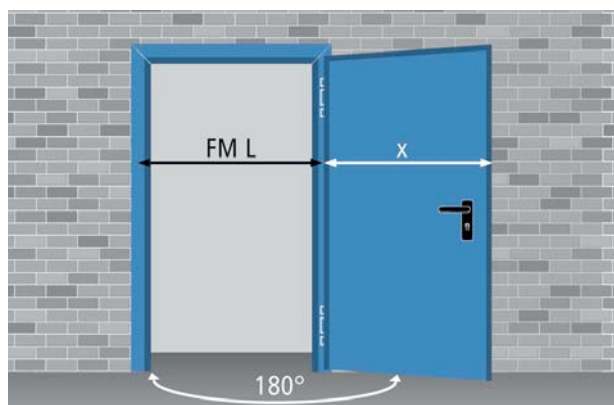
### Net passage calculation

panic bar type	protrusion	one-leaved door	two-leaved door	one-leaved door with block frame	two-leaved door with block frame
EXUS	125	FML - 245	FML - 410	Opening - 315	Opening - 480
TWIST	100	FML - 220	FML - 360	Opening - 290	Opening - 430
SLASH	75	FML - 195	FML - 310	Opening - 265	Opening - 380
FAST TOUCH	75	FML - 195	FML - 310	Opening - 265	Opening - 380
without panic bar	-	FML - 120	FML - 160	Opening - 190	Opening - 230
$z = \text{leaf protrusion relative to the wall}$		FML + 27	El <sub>2</sub> 60, REI 60, REI 120 = L1 + 35, L2 + 75; El <sub>2</sub> 90 = L1 + 67, L2 + 75		

## OVERALL DIMENSIONS WITH 180 DEGREE OPENING

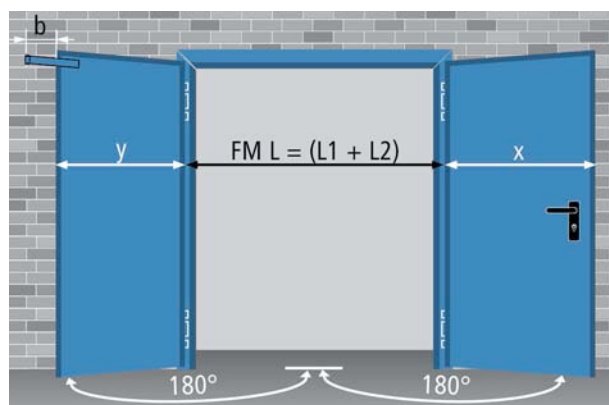
### One-leaved door

$x = \text{FML} - 7$



### Two-leaved door

El<sub>2</sub>60, REI 60, REI 120:  $x = L1 + 1$ ; El<sub>2</sub>90:  $x = L1 + 33$ ;  $y = L2 + 42$   
 $b = \text{max. } 130$  (only in the presence of a panic bar or M14 handle)



**"bare minimum, maximum performance!"**





## **NINZ REVER multipurpose doors**

FEATURES	44 - 47
SPECIFIC OPTIONAL ACCESSORIES	48 - 51
DOOR CROSS SECTIONS - MEASUREMENTS	52
INSTALLATION METHODS	53
ORDER MEASUREMENTS	54
OPENING MEASUREMENTS - OVERALL DIMENSIONS	55

# Features

## REVER multipurpose doors

### THE ECONOMICAL MULTIPURPOSE YOU ALWAYS WISHED FOR

#### "Quality first"

- Fully galvanized, including the "hidden" parts
- Made of "Sendzimir" processed hot-galvanized sheet metal
- Corrosion protection also provided along the cut edges of the metal
- Painted with epoxy-polyester thermoset powders in a 180 degree (Celsius) oven
- Extra-thick paint layer (over 70 microns)
- Optimal corrosion resistance as demonstrated by 500 hour salt-fog testing
- Finishing with high-quality aesthetics
- Orange skin anti-scratch structured paint
- Customizable with wide selection of RAL colors

#### "Practicality of use"

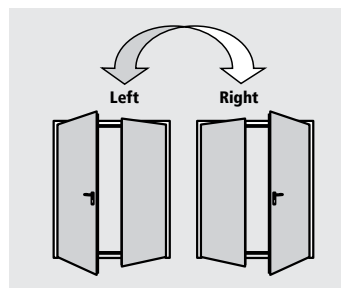
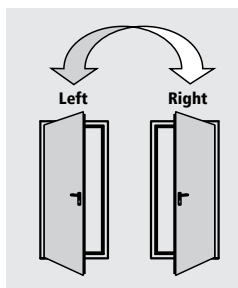
- Door reversibility\*
- Indication of door opening direction not necessary
- Reduction of stock for retailers
- Simplifies choices for end customers
- Especially well-suited for indoor use
- Light but still sturdy
- Easy installation

#### "Versatility"

- Very wide field of application
- Can be combined with various frame types
- Installable onto any wall type
- Application with a block frame
- Can be combined with over-head frame panel with or without ventilating perforation
- Available with upper/lower crack enlargement
- Vast assortment of accessories
- Customized measurements also available

#### "Manufacturing technology"

- Manufacturing in modern and functional facilities which employ the latest technologies to maintain high quality levels and product uniformity
- The entire production process - from raw materials to painted and packaged products - takes place inside Ninz's own facilities, ensuring a 360 degree door control



\*except in combination with certain optional accessories



One-leaved doors



Two-leaved doors

### STANDARD ELEMENTS

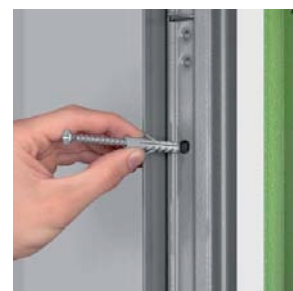
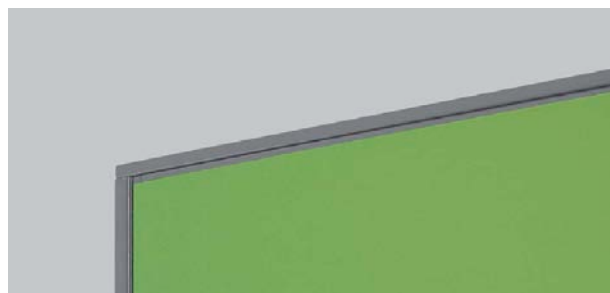
which comprise Rever multipurpose doors:

#### Door

- Made of "Sendzimir" processed hot-galvanized sheet metal, press folded
- Perimetral rebate on 4 sides
- Internal corrugated honeycomb fiber structure fixed firmly to the sheet metal
- Thickness of 40 mm

#### Doorframe

- Made of "Sendzimir" processed hot-galvanized sheet metal
- Grooves for rebate sealing
- Suitable for anchors for mortar fixing or expansion screws
- Detachable rebate for application on finished flooring
- Removable threshold for thresholdless installation
- Strike plates in black plastic for lock bolt
- Assembled doorframes for one-leaved doors
- Assembly required for two-leaved doorframes



#### Hinges

- Nr. 2 three-wing hinges for each leaf

#### Locking mechanism

- Reversible locking mechanism with bolt and central latch
- Insert with patent key, Euro profile cylinder ready

#### Handle

- Black plastic handle
- Fastener screws to pass
- Insert for patent-type key

#### Safety bolts

- Nr. 3 safety bolts applied on hinge side doorframe edge

# Features

## REVER multipurpose doors



### INCLUDED ACCESSORIES

which comprise Rever multipurpose doors:

#### Safety lock

- Central latch for blocking and unblocking the inactive leaf
- Lever control for unlocking vertical rods

#### Upper coupling system for the inactive leaf

- Vertical rod with steel point which inserts into the upper strike box
- Upper strike box in black plastic with steel roller

#### Lower coupling system for the inactive leaf

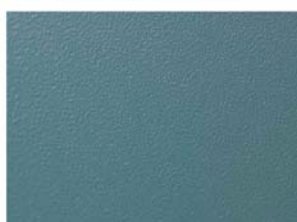
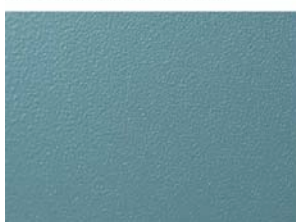
- Vertical rod with steel point which inserts into lower strike box
- Floor catch (floor-mounted bushing) in black plastic, for doors without threshold
- Floor catch in black plastic with a steel roller, for doors with threshold



#### Standard paint - group 01:

leaf color NCS 4020-B50G

frame color NCS 5020-B50G



### Finishing

- Standard painted with epoxy-polyester thermoset powders in a 180 degrees oven, orange skin, anti-scratch finishing
- Standard pastel turquoise color, lighter tone for the leaf (NCS4020-B50G), darker tone for the frame (NCS5020-B50G)

### Standard packaging

- Single door wrapped into stretchable polyethylene (PE) film
- Assembled doorframes for one-leaved doors
- Assembly required for doorframes for two-leaved doors
- Palletized on wooden pallets

### Pre-settings

- Each door is ready for the installation of a three-point SECUR lock
- The main lock and upper rod housing on the inactive leaf are ready for installation of the latching mechanism for panic bars

### Door weight

	kg/m <sup>2</sup> of wall opening
1 leaf	15
2 leaves	14

### NOTE

If the door ever needs to be repainted, follow the precise instructions on the "Painting" page.

# Features

## REVER multipurpose doors



### OPTIONAL ACCESSORIES

A wide variety of accessories and surface finishes are available on request for maximum value enhancement of Rever doors to your own specific needs.

The proper accessories can help resolve:

#### Safety-related needs

- Doors for panic exits (see panic bars)
- Doors for emergency exits (see emergency exit handles)
- Three-point Rever SECUR lock

#### Installation and utilization needs

- Embracing or telescopic frames
- Frame extensions
- Drip steel-profile
- Kick and protection plates in stainless steel
- Windows
- Ventilating perforation
- Overhead frame panel
- Available with upper/lower crack enlargement

#### Access-related control issues

- Electrically-activated lock mechanisms
- Electric handle mechanisms
- Magnetic blocking mechanisms

#### Performance enhancing

- Rebate sealings
- Cylinders
- Door closers
- Special handles



#### NOTE

Details about optional accessories may be found in the following chapters of this brochure:

- Painting and NDD decorations
- Accessories for metal doors
- Emergency handles and panic bars

Right-opening doors are the default selection if opening direction is not specified.

#### Customized finishing

- Select finishing from a wide variety of RAL colours
- NDD – Ninz Digital Decor, graphic images applied with special ink jets and protected by a transparent topcoat. Infinite varieties of customizable decorations in harmony with specific door settings
- Stainless steel handles
- Colored handles

#### Packaging for maximum protection

Sturdy wooden crates protect all doors and related accessories

- For NDD decorated doors
- On construction sites
- During shipping abroad
- For special transport

The following optional accessories make Rever doors irreversible, requiring the indication of the door opening direction when the order is placed:

- SLASH panic bar
- Panic bar for inactive leaves
- Windows and ventilation grills
- MAC locks
- ELM/cisa and ELM/mt electric handle
- Special locks (016 tir- Stel 15)
- Overhead frame panels and prolonged frames
- Special doorframes (SPEED, SOLID, TESCO)

# Specific optional accessories

## REVER multipurpose doors



### MULTIPURPOSE WINDOW

On request, the one- and two-leaved doors may be equipped with round or rectangular windows, with stratified 3 + 3 mm glass, 2B2 rated, framed with a black rubber EPDM profile. The corners of rectangular windows are rounded (radius of approx. 100 mm).

#### Production limits

Window sizes are standard and the minimum border strips around the window may not be reduced.

#### Borders, window position

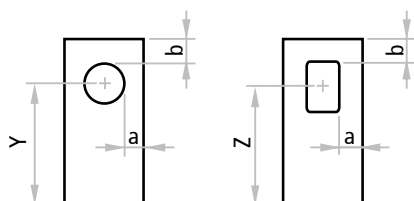
"Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

#### Elevation for round windows

window size	FM H	position
Ø 300	minimum 1950	Y=1600
Ø 300	less than 1950	Y=FM H - 350
Ø 400	minimum 2000	Y=1600
Ø 400	less than 2000	Y=FM H - 400

#### Elevation for rectangular windows

window dimensions L x H	FM H	position
300 x 500	minimum 1950	Z=1500
300 x 500	less than 1950	Z=FM H - 450
400 x 700	minimum 2050	Z=1500
400 x 700	less than 2050	Z=FM H - 550



#### KIT window

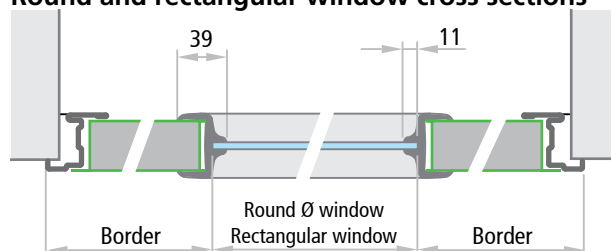
The windows for Rever doors are also available as a KIT for later installation directly by the customer.

#### NOTE

The positions indicated above are those standard. Different positions may be considered as long as they respect the minimum "a" and "b" border strips.



#### Round and rectangular window cross sections



#### Window dimensions

		minimum border		FM L min. dimensions
		a	b	
	Ø 300	200	200	700
	Ø 400	200	200	800
	Ø 300	200	200	L1 700 + L2 400
	Ø 400	200	200	L1 800 + L2 400
	Ø 300	200	200	L1 700 + L2 700
	Ø 400	200	200	L1 800 + L2 800
	300 x 500	200	200	700
	400 x 700	200	200	800
	300 x 500	200	200	L1 700 + L2 400
	400 x 700	200	200	L1 800 + L2 400
	300 x 500	200	200	L1 700 + L2 700
	400 x 700	200	200	L1 800 + L2 800

# Specific optional accessories

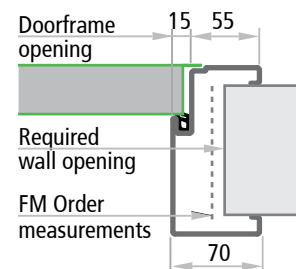
## REVER multipurpose doors



### SPECIAL „SPEED‘ DOORFRAME FOR REVER DOORS

SPEED on three sides embracing doorframe with 45 deg. joints, made of 1,25 mm thick galvanized „Sendzimir“ processed sheet metal, assembly required. For installation onto finished walls using 6 integrated clamps and two adjustable spacers with plugs or screws. Includes rebate sealing and RAL painting with thermoset epoxy-polyester powders. Minimum 75mm wall thickness, 55/70 frames.

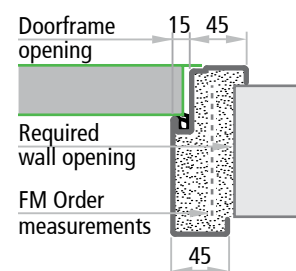
Order measurements	required wall opening	doorframe opening
FM L (width)	FM L + 20	FM L - 64
FM H (height)	FM H + 10	FM H - 34



### SPECIAL „SOLID‘ DOORFRAME FOR REVER DOORS

SOLID on three sides embracing doorframe with 45 deg. joints, made of 1,25 mm thick galvanized „Sendzimir“ processed sheet metal, assembly required. For installation with anchors for mortar fixing or with fastening profiles to fix with plugs or screw on, including removable threshold spacer, sealing and RAL painting with thermoset epoxy-polyester powders. Minimum 50mm wall thickness, 45/45 frames.

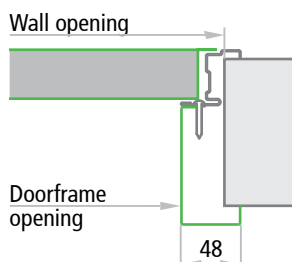
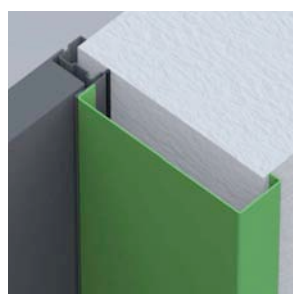
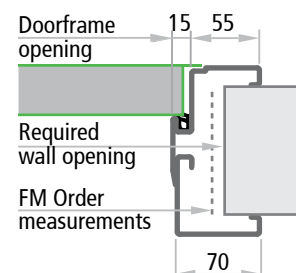
Order measurements	required wall opening	doorframe opening
FM L (width)	FM L + 40	FM L - 64
FM H (height)	FM H + 20	FM H - 34



### SPECIAL „TESCOP‘ DOORFRAME FOR REVER DOORS

Two-pieced TESCOP on three sides embracing doorframe with 45 deg. joints, made of 1,25 mm thick galvanized „Sendzimir“ processed sheet metal, assembly required. To be fixed to finished wall with screws, including removable threshold spacer, sealing and RAL painting with thermoset epoxy-polyester powders. Minimum 70mm wall thickness, adjustment range of +25mm, frames 55/70.

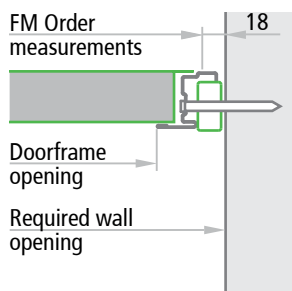
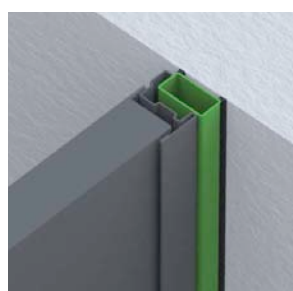
Order measurements	required wall opening	doorframe opening
FM L (width)	FM L + 20	FM L - 64
FM H (height)	FM H + 10	FM H - 34



### IM21 FRAME EXTENSION FOR REVER DOORS

Frame extension to be screwed to the Rever doorframe acting as a wall cladding. Made of „Sendzimir“ processed hot-galvanized sheet metal painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 45 degree joint. To mount the frame extension, fixing holes need to be drilled into doorframe on site. Combine with sealing to conceal the screw heads.

Minimum 60mm wall thickness.



### INSTALLATION „IN THE REVEAL“ WITH BLOCK FRAME

On request additional block profiles for one- and two-leaved multipurpose Rever doors. Consists of 3 sections of hollow 40x20x1,5mm metal profiles painted the same color as the doorframe using thermoset epoxy-polyester powders. Installation with screws and plugs (screws and plugs not included).

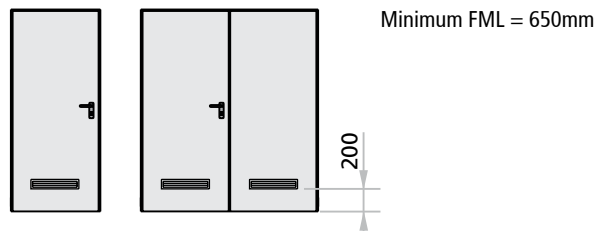
Required wall opening = FM L + 36, FM H + 18

# Specific optional accessories

## REVER multipurpose doors

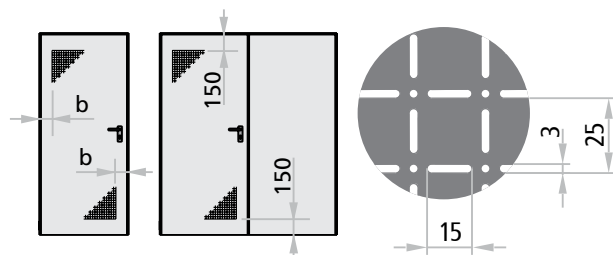
### VENTILATION LOUVER

Ventilation louver made of either black or white PVC, 482x99mm (air passage approx. 150cm<sup>2</sup>). The opening direction of the door needs to be specified.



### VENTILATING PERFORATIONS

Ventilating perforation for one- and two-leaved Rever doors and for the active leaf of two-leaved doors; made by perforating the illustrated pattern into the sheet metal. Rever doors with ventilating perforations remain reversible.

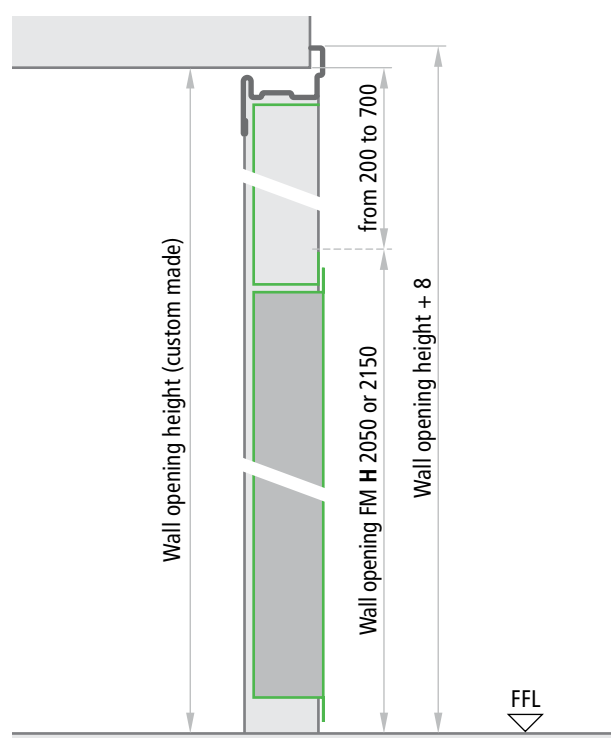
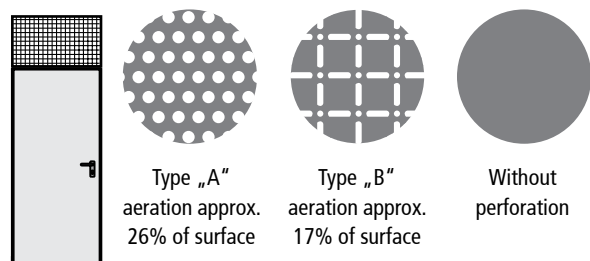


**NOTE**  
Ventilating perforations are only provided on the active leaf of two-leaved doors.

FM L / FM L1	perforation	aeration	borders (b)
< 560 mm	not possible	-	-
from 560 to 700 mm	300 x 300 mm	156 cm <sup>2</sup>	100 mm
from 701 to 1000 mm	350 x 350 mm	208 cm <sup>2</sup>	100 mm
> 1000 mm	350 x 350 mm	208 cm <sup>2</sup>	150 mm

### OVERHEAD FRAME PANEL

A prolonged frame with a galvanized, eventually perforated 12/10 mm thick piece of sheet metal to serve as the overhead frame panel with ventilating perforation, which also functions as the upper rebate for the leaf. Painted the same color as the leaf using thermoset epoxy-polyester powders. Also available for Speed, Solid and Tescop door-frames. Overhead panel delivered not mounted.



**NOTE**  
The direction of panel's installation can be chosen by the customer.

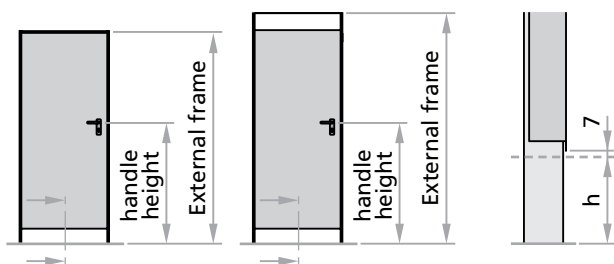
# Specific optional accessories

## REVER multipurpose doors



### DOOR WITH EXTENDED FRAME

Frame extends beyond the door leaf to create a gap of height (h) varying of between 50 to 150 mm, either below or both above and below. When using the standard Rever door leaf and an extended frame, the positioning of the handle is higher as a consequence.



	Handle height	external frame	required wall opening
crack below	$FM H / 2 + 50 + h$	$FM H + h + 8$	$FM H + h$
crack below and above	$FM H / 2 + 50 + h$	$FM H + 2 \times h + 8$	$FM H + 2 \times h$

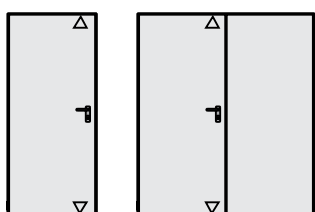
#### NOTE

The extended frame is also available as SPEED, SOLID or TESCO version.

### THREE-POINT SECUR LOCK FOR REVER DOOR

The SECUR version of Rever provides a more reliable door closure. Activating the lock with a key blocks the leaf in the frame at three points: in the center with the latch bolt, above with the rod that inserts into the upper strike box and below with the rod that inserts into the lower strike box.

Also available as a KIT for on-site installation. SECUR Rever doors remain reversible.



▷ Additional locking points



upper strike box



lower strike box (bushing)

#### NOTE

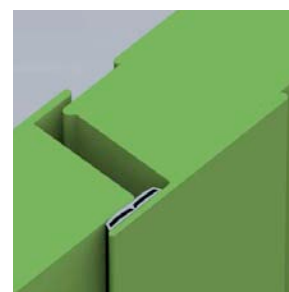
Not available in the following versions: anti-panic, with overhead panel or with extended frame.  
In case of SECUR version, the standard cylinder is supplied.

### FF REBATE SEALING

FF sealing in black extruded profile to cut and to be pressed into the dedicated groove of the perimetral frame.  
FF sealing in black extruded profile self-adhesive to cut for application to the central joint of two-leaved doors.



perimetral frame



central joint for two-leaved doors

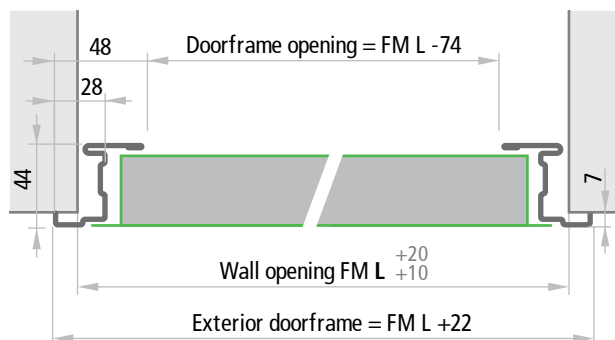
# Door cross sections - Measurements

REVER multipurpose doors



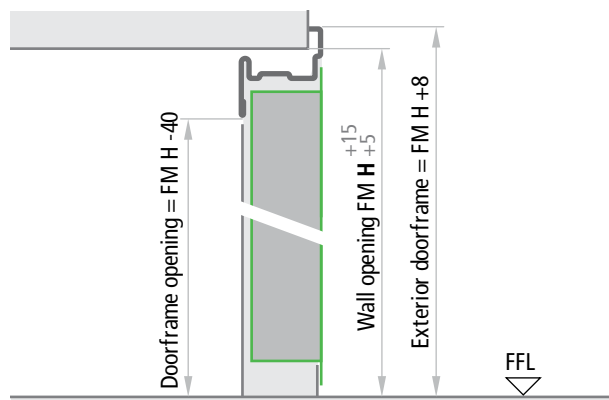
## One-leaved doors

Horizontal cross section



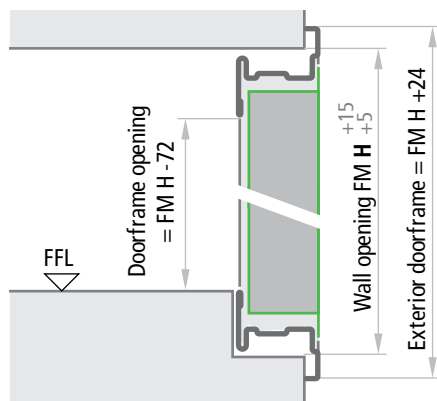
## Doors without lower threshold

Vertical cross section



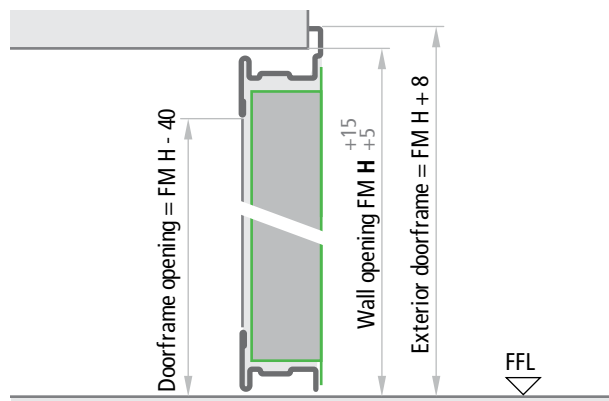
## Doors with internal and external lower threshold

Vertical cross section



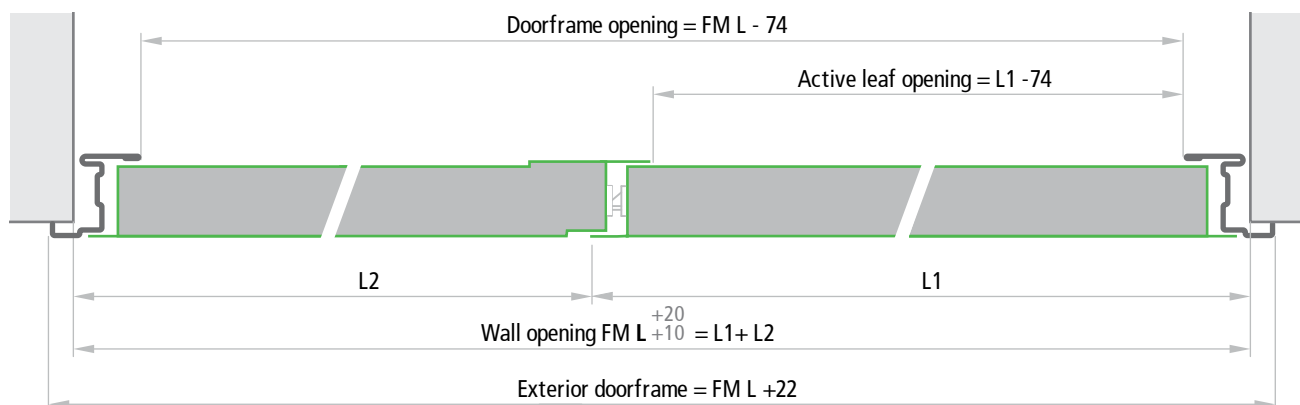
## Doors with internal lower threshold

Vertical cross section



## Two-leaved doors

Horizontal cross section



## Leaf thickness

MULTIPURPOSE 40 mm

## NOTE

The tolerances  $FM L +20$ ,  $FM H +15$  of the indicated measurements make it easier to fill the gap between the wall and the doorframe with cement mortar. For dry wall installation, the holes must be precise and greater tolerance ranges should not be employed.

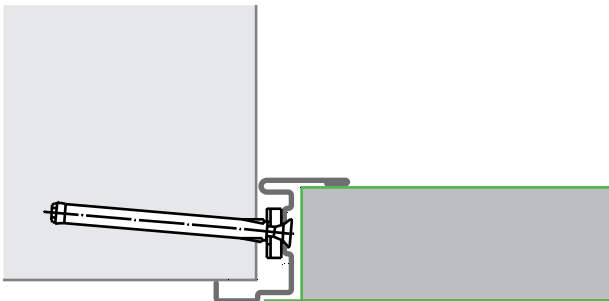
### INSTALLATION WITH ANCHORS FOR MORTAR FIXING

For mortar fixing, appropriate cuts will need to be created in the walls (section 80 x 160 mm) or the anchors should be fixed with expansion screws. The anchors should be bent and blocked inside the wall. For a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled with concrete mortar or polyurethane foam.



### INSTALLATION FOR EXPANSION SCREWS FIXING

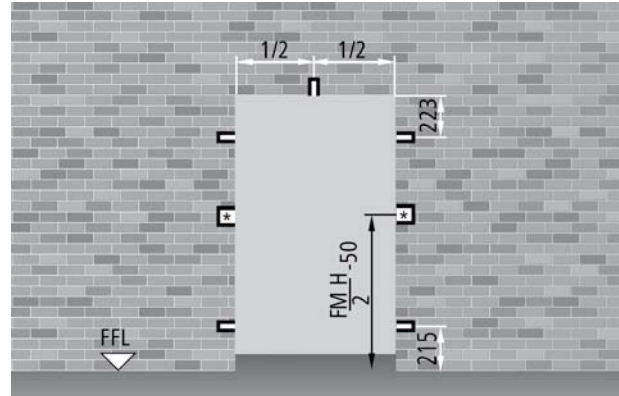
For the installation with expansion screws, the anchors serve as spacers and should not be bent. Using Würth type art. 0910436112 plugs or similar (supplied at the customer's expense), installation is done with expansion screws into the pre-drilled holes present on the frame. For a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled with concrete mortar or polyurethane foam.



### ANCHOR POSITIONING

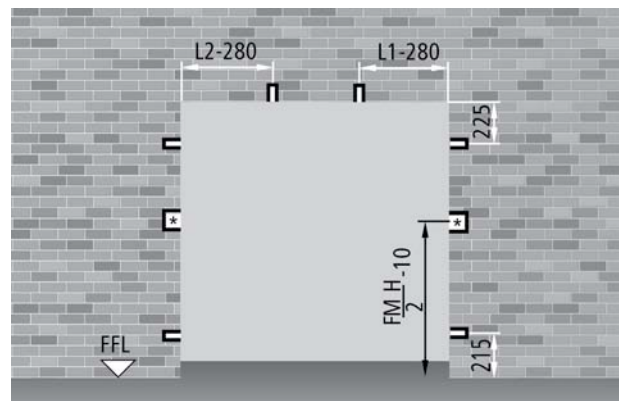
#### One-leaved doors

Right opening and Left opening

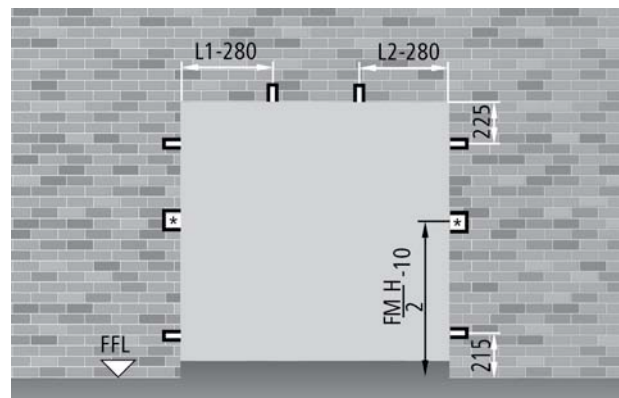


#### Two-leaved doors

Right opening



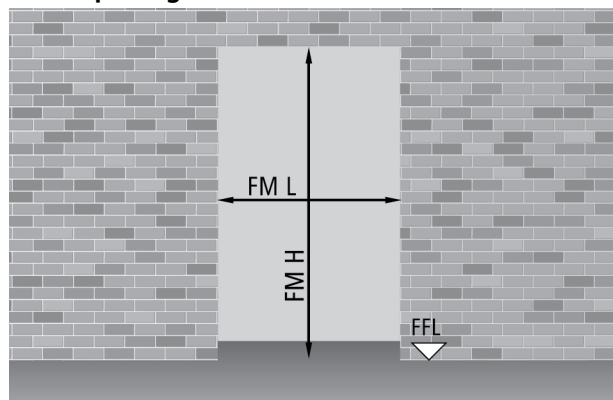
Left opening



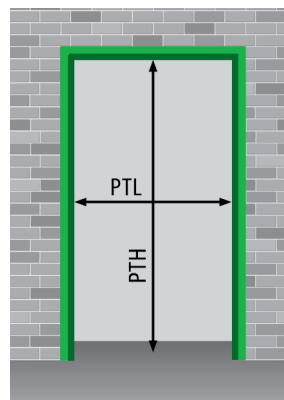
(\*) For proper installation, the cuts for the anchors should be 200 x 160 mm in size.

## ORDER MEASUREMENTS

### Wall Opening



### Doorframe opening



#### One-leaved doors

$$PTL = FML - 74$$

$$PTH = FMH - 40$$

#### Two-leaved doors

$$PTL = FML - 74$$

$$PTH = FMH - 40$$

### One-leaved door FM L x FM H

#### standard dimensions

700	x	2050 / 2100 / 2150 / 2200*
800	x	2050 / 2100 / 2150 / 2200*
900	x	2050 / 2100 / 2150 / 2200*
1000	x	2050 / 2100 / 2150 / 2200*
1100	x	2050 / 2100* / 2150 / 2200*
1200	x	2050 / 2100* / 2150 / 2200*
1300	x	2050 / 2100* / 2150 / 2200*
1350	x	2050 / 2100* / 2150 / 2200*

### PT L x PT H

#### doorframe opening

626	x	2010 / 2060 / 2110 / 2160
726	x	2010 / 2060 / 2110 / 2160
826	x	2010 / 2060 / 2110 / 2160
926	x	2010 / 2060 / 2110 / 2160
1026	x	2010 / 2060 / 2110 / 2160
1126	x	2010 / 2060 / 2110 / 2160
1226	x	2010 / 2060 / 2110 / 2160
1276	x	2010 / 2060 / 2110 / 2160

#### semi-standard dimensions

from 500 to 1345 x 2050 / 2150

from 526 to 1271 x 2010 / 2110

#### non-standard dimensions

from 500 to 1350 x from 1780 to 2150

from 526 to 1276 x from 1740 to 2110

### Two-leaved doors FM L (L1+L2) x FM H

#### standard dimensions

1200	( 800 + 400)	x 2050 / 2100* / 2150 / 2200*
1300	( 900 + 400)	x 2050 / 2100* / 2150 / 2200*
1400	( 700 + 700)	x 2050 / 2100 / 2150 / 2200*
1600	( 800 + 800)	x 2050 / 2100 / 2150 / 2200*
1800	( 900 + 900)	x 2050 / 2100 / 2150 / 2200*
2000	(1000 + 1000)	x 2050 / 2100 / 2150 / 2200*

### PT L x PT H

#### doorframe opening

1126	x	2010 / 2060 / 2110 / 2160
1226	x	2010 / 2060 / 2110 / 2160
1326	x	2010 / 2060 / 2110 / 2160
1526	x	2010 / 2060 / 2110 / 2160
1726	x	2010 / 2060 / 2110 / 2160
1926	x	2010 / 2060 / 2110 / 2160

#### semi-standard dimensions

from 900 (500+400) to 2000 (1000 + 1000) x 2050 / 2150

from 826 to 1926 x 2010 / 2110

#### non-standard dimensions

from 900 (500+400) to 2000 (1000 + 1000) x from 1780 to 2150

from 826 to 1926 x 1740 / 2110

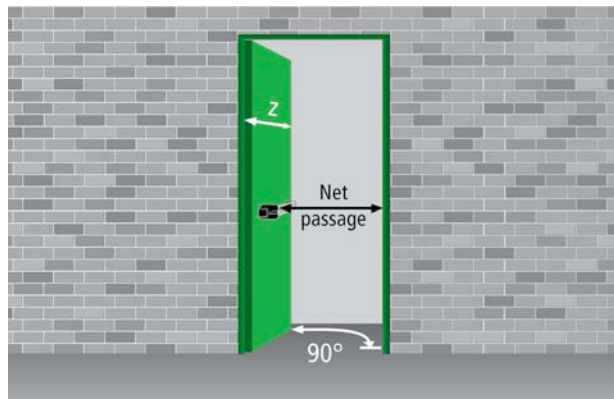
\* limited dimensions available - see the price list

#### NOTE

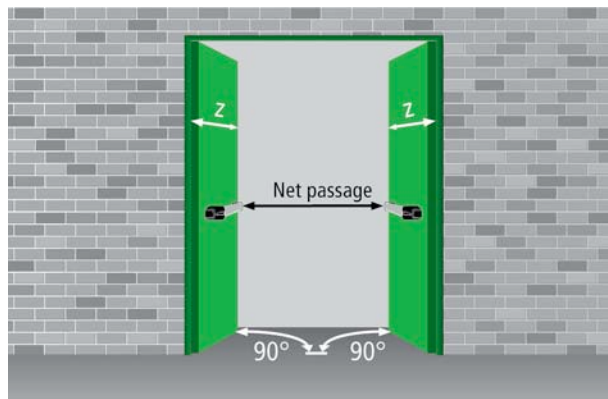
Unless specified otherwise by the customer, two-leaved standard, semi-standard and customized doors are supplied with a right-pull opening direction.

## OPENING MEASUREMENTS AND OVERALL DIMENSIONS WITH 90 DEGREE OPENING

### One-leaved doors with panic bar



### Two-leaved doors with panic bars



### Net passage calculation

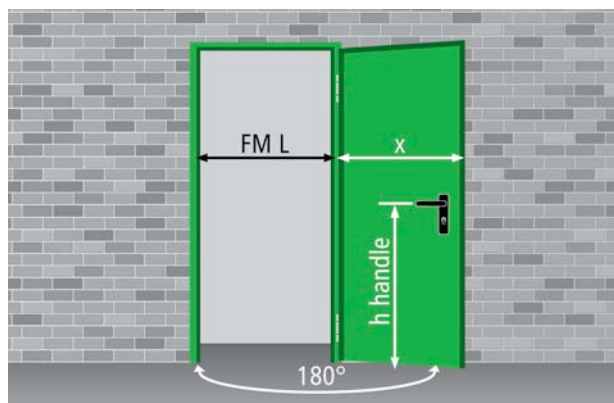
panic bar type	protrusion	one-leaved door	two-leaved door
EXUS	125	FML - 209	FML - 344
TWIST	100	FML - 184	FML - 294
SLASH	75	FML - 159	FML - 244
FAST TOUCH	75	FML - 159	FML - 244
without panic bar	-	FML - 84	FML - 94
z = leaf protrusion relative to the wall		FML + 11	L1 + 11 L2 + 56

## OVERALL DIMENSIONS WITH 180 DEGREE OPENING - HANDLE HEIGHT

### One-leaved door

$$x = \text{FML} - 4$$

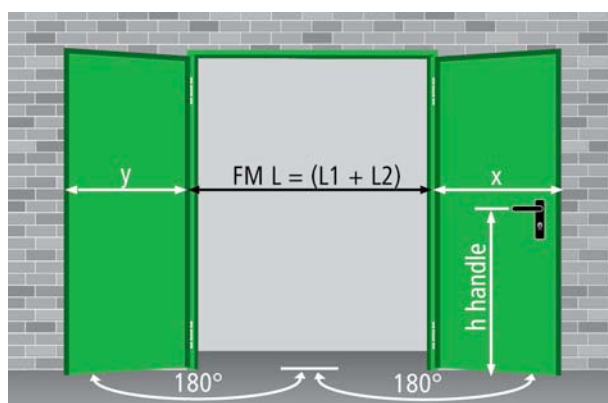
$$h \text{ handle} = \text{FMH}/2 + 50$$



### Two-leaved door

$$x = L1 - 4 \quad y = L2 + 42$$

$$h \text{ handle} = \text{FMH}/2 + 50$$



**"the quality multipurpose,  
reversible and heat-insulated"**





## UNIVER NINZ Doors

MULTIPURPOSE VERSION

FEATURES

SPECIFIC OPTIONAL ACCESSORIES

EXTERNAL DOORS CE MARKED

DOOR CROSS SECTIONS - MEASUREMENTS

INSTALLATION METHODS

ORDER MEASUREMENTS

OPENING MEASUREMENTS - OVERALL DIMENSIONS

58 - 61

62 - 65

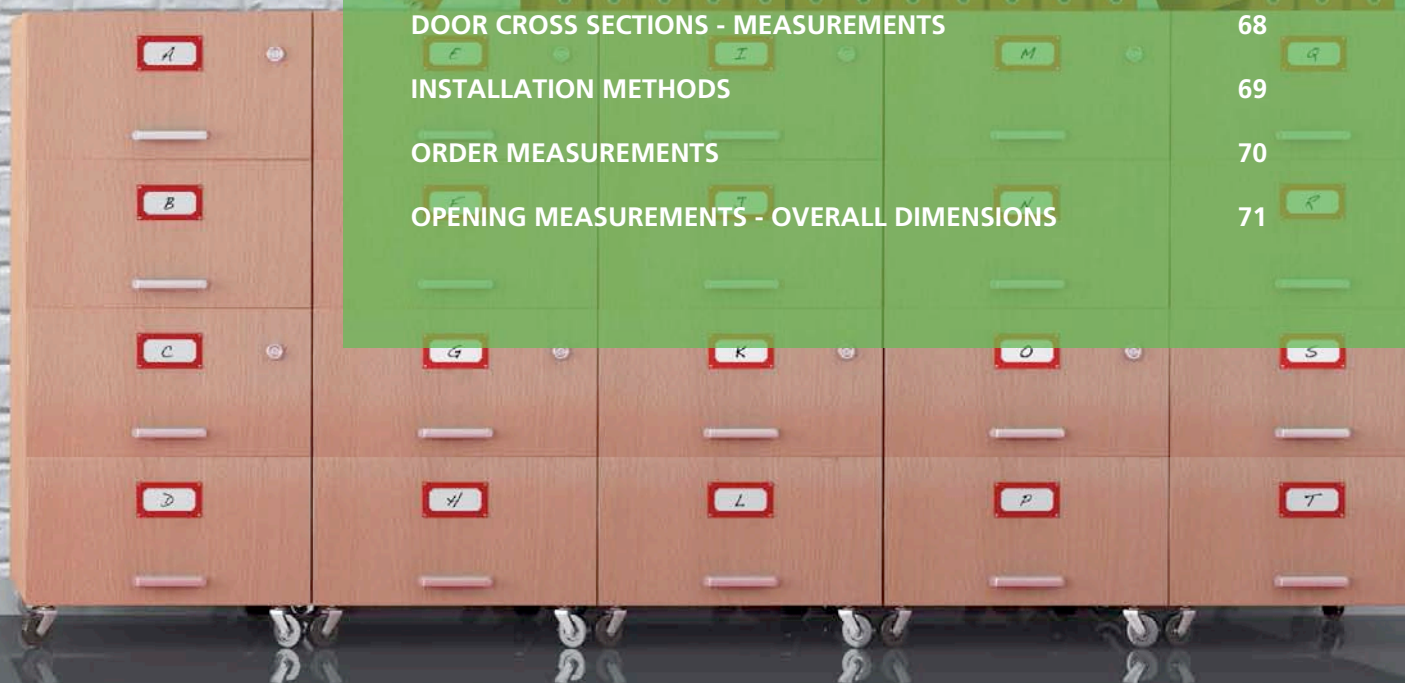
66 - 67

68

69

70

71



# Features

## UNIVER multipurpose doors

### THE HIGH QUALITY MULTIPURPOSE

#### "Quality first"

- Solid design and manufacture
- Fully galvanized door, including the "hidden" parts
- Made of "Sendzimir" process hot-galvanized sheet metal
- Corrosion protection also provided along cut edges of the metal sheets
- Painted with epoxy-polyester thermoset powders in a 180 degrees (Celsius) oven
- Substantial paint layer (70 microns plus)
- Optimal corrosion resistance demonstrated by 500 hour salt-fog test
- Unaffected by severe climate changes, demonstrated by 2000 hours with +60° to -10° cycles at 75% humidity
- Finishing with high-quality aesthetics
- Orange skin anti-scratch structured paint
- Customizable with wide selection of RAL colors

#### CE marking for external use

- Wind resistance and water tightness
- Thermal isolation
- Air permeability
- Suitable for use with panic bar

#### "Practicality of use"

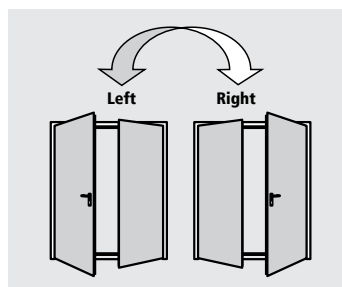
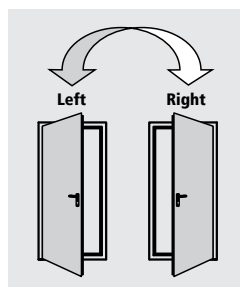
- Door reversibility\*
- Indication of door opening direction not necessary
- Reduction of stock for retailers
- Simplifies choices for end customers
- Easy installation

#### "Versatility"

- Suitable for multiple uses because of its sturdiness
- Vast assortment of accessories
- Customized measurements also available

#### "Manufacturing technology"

- Manufacturing in modern and functional facilities which employ the latest technologies to maintain high quality levels and product uniformity
- The entire production process - from raw materials to painted and packaged products - takes place inside Ninz's own facilities, ensuring a 360 degree door control



\*except in combination with certain optional accessories



One-leaved doors



Two-leaved doors

### STANDARD ELEMENTS

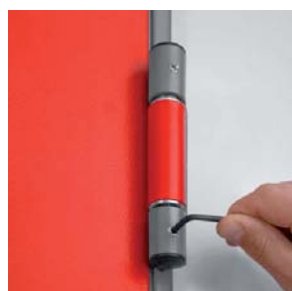
which comprise Univer multipurpose doors:

#### Door leaf

- Made of "Sendzimir" processed hot-galvanized sheet metal, press folded and electro welded
- Perimetral rebate on 4 sides
- Heat-insulated with mineral wool
- Internal stiffeners for overhead door closer and panic bar
- Thickness of 50 mm

#### Doorframe

- Made of "Sendzimir" processed hot-galvanized sheet metal
- Grooves for rebate sealing
- Suitable for anchors for mortar fixing or expansion screws
- Detachable rebate for application on finished flooring
- Removable threshold for thresholdless installation (except for external doors **CE** marked)
- Strike plates in black plastic for lock bolt
- Assembled doorframes for one-leaved doors
- Assembly required for two-leaved doorframes



#### Hinges

- Nr. 2 three-wing hinges for each leaf
- of which one 1 ball-bearing hinge with screws for vertical adjustment of the leaf, **CE** marked as per EN 1935, classified for up to 160 kg load, 200.000 cycles durability, suitable for fire door use
- and one hinge with self-closing spring

#### Safety bolts

- Nr. 3 safety bolts applied on hinge side doorframe edge

#### Locking mechanism

- Reversible locking mechanism with bolt and central latch
- Insert with patent key, Euro profile cylinder ready

#### Handle

- Black plastic handle
- Fastener screws to pass
- Insert for patent-type key

# Features

## UNIVER multipurpose doors



### INCLUDED ACCESSORIES

which comprise Univer multipurpose doors:

#### Safety lock

- Central latch for blocking and unblocking the inactive leaf
- Lever control for unlocking vertical rods

#### Upper coupling system for the inactive leaf

- Vertical rod with steel point which inserts into the upper strike box
- Upper strike box in black plastic with steel roller

#### Lower coupling system for the inactive leaf

- Vertical rod with steel point which inserts into lower strike box
- Floor catch (floor-mounted bushing) in black plastic, for doors without threshold
- Floor catch in black plastic with steel roller, for doors with threshold

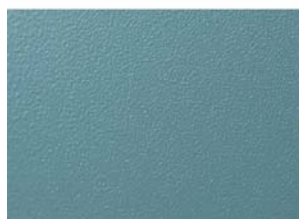
#### Identification plate

- Metal tag with door identification data

#### Standard paint - group 01:

leaf color NCS 4020-B50G

frame color NCS 5020-B50G



### Finishing

- Standard paint with epoxy-polyester thermoset powders in a 180 degrees oven, orange skin, anti-scratch finishing
- Standard pastel turquoise color, lighter tone for the leaf (NCS4020-B50G), darker tone for the frame (NCS5020-B50G)

### Standard packaging

- Single door wrapped into stretchable polyethylene (PE) film
- Assembled doorframes for one-leaved doors
- Assembly required for doorframes for two-leaved doors
- Palletized on wooden pallets

### Pre-settings

- The main lock and upper rod housing on the inactive leaf are ready for installation of the latching mechanism for panic bars

### Door weight

Door weight	kg/m <sup>2</sup> of wall opening
1 leaf	23
2 leaves	22

### NOTE

If the door ever needs to be repainted, follow the precise instructions on the "Painting" page.

## OPTIONAL ACCESSORIES

A wide variety of accessories and surface finishes are available on request for maximum value enhancement of Univer doors to your own specific needs.

The proper accessories can help resolve:

### Safety-related needs

- Doors for panic exits (see panic bars)
- Doors for emergency exits (see emergency exit handles)
- Univer three-point SECUR lock

### Installation and utilization needs

- Frame extensions
- Drip steel-profile
- Kick and protection plates in stainless steel
- Windows
- Ventilation grills
- Roofing

### Access-related control issues

- Electrically-activated lock mechanisms
- Electric handle mechanisms
- Magnetic blocking mechanisms

### Performance enhancing

- Sealing
- Cylinders
- Door closers
- Special handles



### Customized finishing

- Select finishing from a wide variety of RAL colours
- NDD – Ninz Digital Decor, graphic images applied with special ink jets and protected by a transparent topcoat. Infinite varieties of customizable decorations in harmony with specific door settings
- Stainless steel handles
- Colored handles

### Packaging for maximum protection

Sturdy wooden crates protect all doors and related accessories

- For NDD decorated doors
- On construction sites
- During shipping abroad
- For special transport

### NOTE

Details about optional accessories may be found in the present brochure in chapters:

- Painting and NDD decorations
- Accessories for metal doors
- Emergency handles and panic bars

Right-opening (Right) doors are the default selection if opening direction is not specified.

The following optional accessoires make Univer doors irreversible, requiring the indication of the door opening direction when the order is placed:

- SLASH panic bar
- Panic bar for inactive leaves
- Window and ventilation grills
- MAC locks
- ELM/cisa and ELM/mt electric handle
- Special locks (016 tir- Stel 15)

# Specific optional accessories

## UNIVER multipurpose doors

### MULTIPURPOSE WINDOW WITH METAL WINDOW FRAME

Upon request one- and two-leaved doors may be equipped with round or rectangular windows, with different types of glass and respective window frames fixed with screws. The window frame carter is included for round window and available as an optional accessory for the rectangular one.

#### Production limits

Window sizes are standard and the minimum border strips around the window may not be reduced.

#### Borders, window position

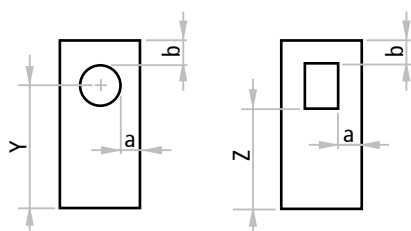
„Border measurement“ refers to the distance from the edge of the window to the wall opening of the door.

#### Elevation for round windows

window dimensions	FM H	position
Ø 300	minimum 1950	Y=1600
Ø 300	less than 1950	Y=FM H - 350
Ø 400	minimum 2150	Y=1600
Ø 400	1950-2149	Y=1550
Ø 400	less than 1950	Y=FM H - 400

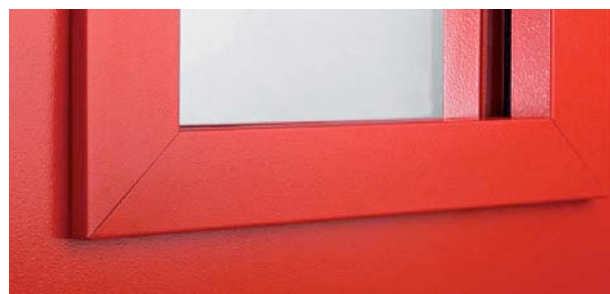
#### Elevation of rectangular windows

window dimensions L x H	FM H	position
250/300 x 400	minimum 2150	Z=1450
250/300 x 400	1950-2149	Z=1350
250/300 x 400	less than 1950	Z=FM H - 600



#### Window dimensions

		min. border a	b	dimensions FM L min.
	Ø 300 Ø 400	200	200	700 800
	Ø 300 Ø 400	200	200	L1 700 + L2 400 L1 800 + L2 400
	Ø 300 Ø 400	200	200	L1 700 + L2 700 L1 800 + L2 800
	250 x 400 300 x 400	200	200	650 700
	250 x 400 300 x 400	200	200	L1 650 + L2 400 L1 700 + L2 400
	250 x 400 300 x 400	200	200	L1 650 + L2 650 L1 700 + L2 700



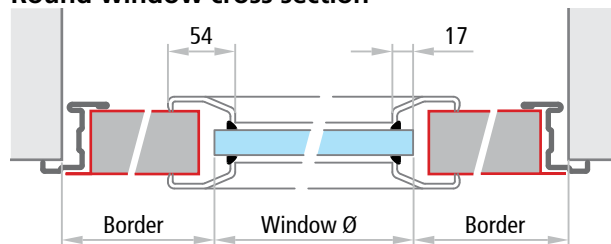
#### NOTE

For the rectangular windows the frame carter is an optional accessory

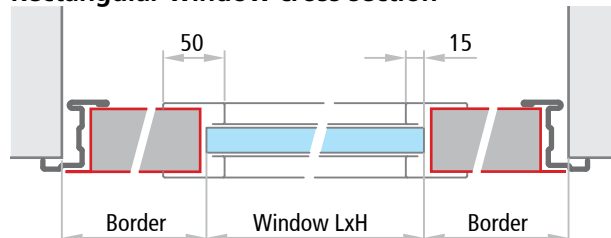
#### Glasses available

	shapes
laminated, 2B2 rated	3 + 3 mm rectangular, circular
laminated, 2B2 rated	4 + 4 mm rectangular
low emission double glass window with 2 laminated glazings 2B2 rated	3+3 / 12 / 3+3 mm rectangular

#### Round window cross section



#### Rectangular window cross section



#### NOTE

The positions indicated above are those standard. Different positions may be considered as long as they respect the minimum „a“ and „b“ border strips. The window itself may not be supplied separately except for replacements. It is always advisable to equip doors with windows with a closing regulator.

# Specific optional accessories

## UNIVER multipurpose doors



### MULTIPURPOSE WINDOW WITH RUBBER WINDOW FRAME

On request, one- and two-leaved doors may be equipped with round or rectangular windows, with laminated 3+3mm glass, 2B2 rated, framed with a black rubber EPDM profile.

The corners of rectangular windows are rounded (radius of approx. 100mm).

#### Production limits

Window sizes are standard and the minimum window border strip measurements may not be reduced.

#### Borders, window position

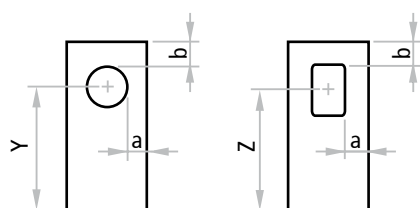
"Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

#### Elevation of round windows

window dimensions	FM H	position
Ø 300	minimum 1950	Y=1600
Ø 300	less than 1950	Y=FM H - 350
Ø 400	minimum 2000	Y=1600
Ø 400	less than 2000	Y=FM H - 400

#### Elevation of rectangular windows

window dimensions L x H	FM H	position
300 x 500	minimum 1950	Z=1500
300 x 500	less than 1950	Z=FM H - 450
400 x 700	minimum 2050	Z=1500
400 x 700	less than 2050	Z=FM H - 550

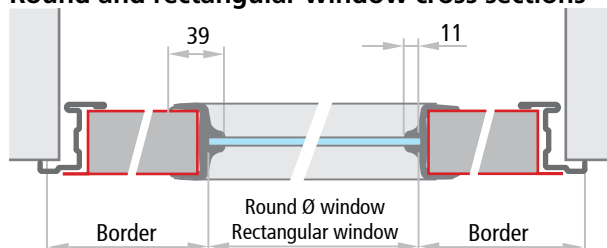


#### NOTE

The positions indicated above are those standard. Different positions may be considered as long as they respect the minimum "a" and "b" borders. It is always advisable for doors with windows to be equipped with door closers for controlled closing.



#### Round and rectangular window cross sections



#### Window dimensions minimum border FM L min. dimensions

		minimum border		FM L min. dimensions
		a	b	
	Ø 300	200	200	700
	Ø 400	200	200	800
	Ø 300	200	200	L1 700 + L2 400
	Ø 400	200	200	L1 800 + L2 400
	Ø 300	200	200	L1 700 + L2 700
	Ø 400	200	200	L1 800 + L2 800
	300 x 500	200	200	700
	400 x 700	200	200	800
	300 x 500	200	200	L1 700 + L2 400
	400 x 700	200	200	L1 800 + L2 400
	300 x 500	200	200	L1 700 + L2 700
	400 x 700	200	200	L1 800 + L2 800

# Specific optional accessories

## UNIVER multipurpose doors

### FRAME EXTENSIONS FOR UNIVER DOORS

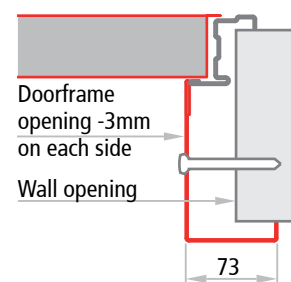
#### IM 11

Frame extension to be mounted in addition to the Univer frame acting as wall cladding. Made of „Sendzimir“ processed hot-galvanized sheet metal and painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 45 degree joint, fixing with screws and plugs (screws and plugs not included).

**IM 11:** for 50mm door thickness, for installation on 70mm (min.) wall thickness



Frame extension IM 11



#### IM 13

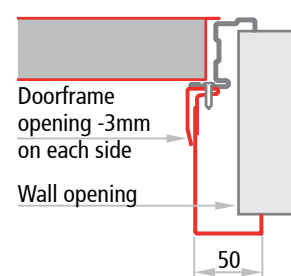
Telescopic frame extension to be screwed to the Univer doorframe acting as wall cladding. Consists of two overlapping profiles with a 25mm adjustable range. Made of „Sendzimir“ processed hot-galvanized sheet metal painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint.

Complete with fastener screws. To mount the frame extension, fixing holes need to be drilled into doorframe on site. Combine with sealing to conceal the screw heads.

**IM 13:** for 50mm door thickness, for installation on 125mm (min.) wall thickness

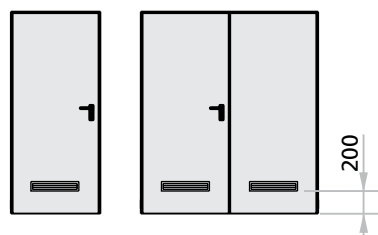


Frame extension IM 13



### VENTILATION LOUVER

Ventilation louver made of either black or white PVC, 482x99mm (air passage approx. 150cm<sup>2</sup>). The opening direction of the door needs to be specified.



Minimum FML = 650mm



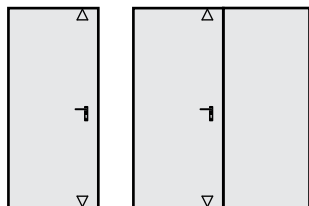
## Specific optional accessories

### UNIVER multipurpose doors

**NINZ**<sup>®</sup>  
FIREDOORS

#### THREE-POINT SECUR LOCK FOR UNIVER DOOR

The SECUR version for Univer provides a more reliable door closure. Activating the lock with a key blocks the leaf in the frame at three points: in the center with the latch bolt, above with the rod that inserts into the upper strike box and below with the rod that inserts into the lower strike box.



▽ Additional locking points



upper strike box



lower strike box (bushing)

#### ATTENTION

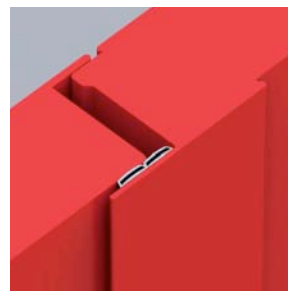
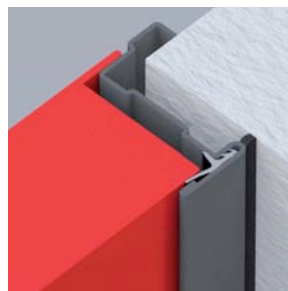
Not available in the anti panic version.

#### NOTE

In case of SECUR version, the standard cylinder is supplied.

#### FF REBATE SEALING

FF sealing in black extruded profile to cut and to be pressed into the dedicated groove of the perimetral frame.  
FF sealing in black extruded profile self-adhesive to cut for application to the central joint of two-leaved doors.



# External doors **CE** marked

UNIVER multipurpose doors - concerned norm EN 14351-1:2006+A1:2010

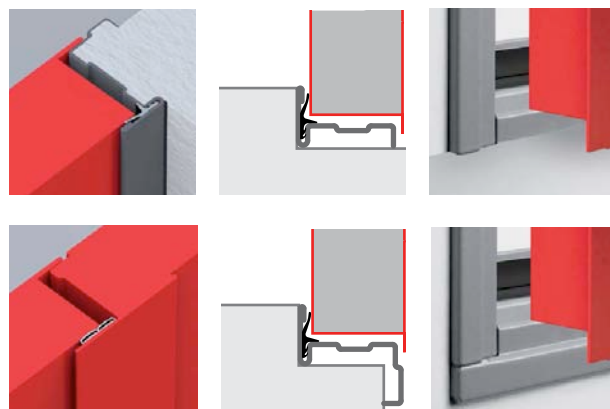
**NINZ**<sup>®</sup>  
FIREDOORS

## EXTERNAL PEDESTRIAN DOORS

The norm EN 14351-1 defines as an external door, that which separates the internal climate from the external one of a construction. For this use the doors need to be **CE** marked according to the norm EN 14351-1:2006+A1:2010 and if the door is installed within an emergency exit route, which means that a panic handle or bar is installed onto it, then the door also requires a conformity declaration of type 1 and further a **CE** Certificate emitted by a notified body, which for NINZ S.p.A is the declaration 0425-CPR-2237.

For doors Univer for external use order the relative Kits listed in the Univer multipurpose price list. Refer to the essential requirements listed in the table on the next page to select the correct version in conformity with the valid national standards.

In this way every door will be delivered with the **CE** marking and relative documentation conform to the valid standard.



### ATTENTION

For the dimensional limits, minimum border measurements or production possibilities please refer to the specific pages of this brochure.

The values for the thermal transmittance  $W/m^2K$  shown in the table on the next page are given by the calculation according to the norm EN ISO 10077-1 done on samples of the dimensions 1,23x2,18 for areas  $\leq 3,6m^2$  and on samples of the dimensions 2,00x2,18 for areas  $> 3,6m^2$ .

All performance values indicated in the table are valid only in presence of the following accessories or enhancements:

- installation of the lower threshold
- in case the door is installed onto an emergency exit route it is necessary to raise the finished floor on the push side of the door in such a way as to compensate entirely the difference of the floor level and the lower threshold
- isolation of the door frame with the filling of polyurethane foam or cement
- installation of rubber seals FF along the entire perimeter of the door frame including the central rebate for double leaved doors
- sealing of the perimeter of the frame (side to push) with neutral silicone
- for doors with windows: dimensions of 300x400mm for "3+3 / 12 / 3+3" low emission double glass windows, composed of two 3+3 laminated glazings, 2B2 rated.

### NOTE

For more details regarding the external installation, refer to the "Notices" section at the end of this brochure.

**CE**  
0425

**ICIM**

**Certificato di costanza delle prestazioni**  
*Certificate of constancy of performance*

Certificato N.  
Certificate No. **0425 - CPR - 2237**

In conformità al Regolamento 305/2011/UE del Parlamento Europeo e del Consiglio del 9 marzo 2011 (Regolamento Prodotti da Costruzione o CPR), questo certificato in replica al prodotto da costruzione  
In compliance with Regulation 305/2011/UE of the European Parliament and of the Council of 9 March 2011 (the Construction Products Certification or CPR), this certificate applies to the construction product

ORGANISMO NOTIFICATO / NOTIFIED BODY

**ICIM S.p.A. - Identification number: 0425**  
Piazza Don Enrico Mapelli, 75 - 20099 Sesto San Giovanni (MI) - ITALY

DATI FABBRICANTE / MANUFACTURER DETAILS

**NINZ S.p.A.**

SEDE LEGALE  
HEAD OFFICE  
Corso Trento, 2/A  
38061 ALA (TN)

UNITÀ OPERATIVA  
PRODUCTION UNIT  
Corso Trento, 2/A - 38061 ALA (TN)  
Via Negrelli, 17 - 39100 BOLZANO (BZ)

DATI PRODOTTO / PRODUCT DETAILS

**PORTE ESTERNE PER UTILIZZO SU VIE DI FUGA**  
**EXTERNAL PEDESTRIAN DOORSETS ON ESCAPE ROUTES**

Caratteristiche: vedi Allegato / Characteristics: see Annex

Questo certificato attesta che tutte le disposizioni riguardanti la valutazione e la verifica della costanza delle prestazioni e le prestazioni descritte nell'allegato ZA della norma EN 14351-1:2006+A1:2010 nell'ambito del sistema 1 sono applicabili e che i prodotti soddisfanno tutti i requisiti previsti di cui sopra.  
This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard EN 14351-1:2006+A1:2010 under system 1 are applied and that the products fulfil all the prescribed requirements set out above.




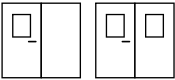
Questo certificato è stato emesso per la prima volta il 15/10/2015 e ha validità sino a che i metodi di prova o i requisiti del controllo della produzione in fabbrica stabiliti nella norma armonizzata, utilizzati per valutare la produzione delle caratteristiche dichiarate, non cambiano, e il prodotto è in condizione di produzione nello stabilimento non sottostante modifiche significative.  
This certificate was first issued on 15/10/2015 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions on the plant are not modified significantly.

Il presente Certificato è da ritenersi valido solo se accompagnato dal relativo Allegato / This Certificate is valid only with the relative Annex

**ICIM S.p.A.**  
EMERSONE  
ISSUE  
**20/07/2015**

ICIM S.p.A. è iscritta all'elenco - Piazza Don Enrico Mapelli, 75 - 20099 Sesto San Giovanni (MI)

## Essential requirements for classifications according to certificate 0425-CPR-2237

	FM L x H dimensions	air permeability	thermal transmittance	water-tightness	resistance to windload
<b>without window</b> 	≤ 3,6 m <sup>2</sup>	class 2	1,57 W/m <sup>2</sup> K	class 2A	
	500 - 900 x 1780 - 2150				class C2
<b>with window 300x400</b> 	≤ 3,6 m <sup>2</sup>	class 2	1,99 W/m <sup>2</sup> K	class 2A	
	700 - 900 x 1780 - 2150				class C2
<b>without windows</b> 	≤ 3,6 m <sup>2</sup>	class 3	2,02 W/m <sup>2</sup> K	class 3A, 9B	
	> 3,6 m <sup>2</sup>	class 3	1,63 W/m <sup>2</sup> K	class 3A, 9B	
	900 - 2000 x 1780 - 2150				class C2
<b>with windows 300x400</b> 	≤ 3,6 m <sup>2</sup>	class 3	2,70 W/m <sup>2</sup> K	class 3A, 9B	
	> 3,6 m <sup>2</sup>	class 3	2,06 W/m <sup>2</sup> K	class 3A, 9B	
	1100 * - 2000 x 1780 - 2150				class C2

\* = only for single leaf with window

## other essential requirements

load-bearing capacity of safety devices	pass
ability to release	pass
dangerous substances	according to norm

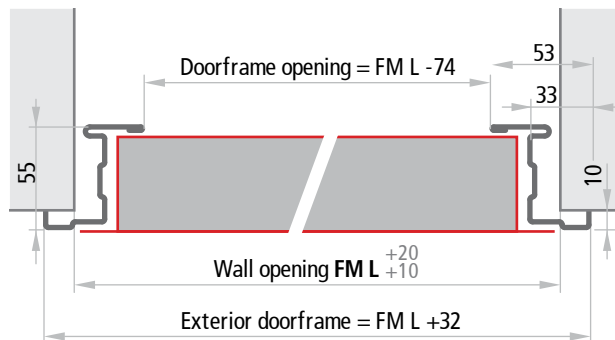
# Door cross sections - Measurements

UNIVER multipurpose doors

**NINZ**  
FIREDOORS

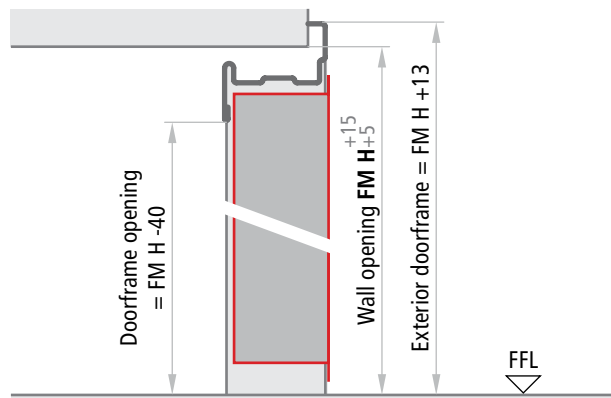
## One-leaved doors

Horizontal cross section



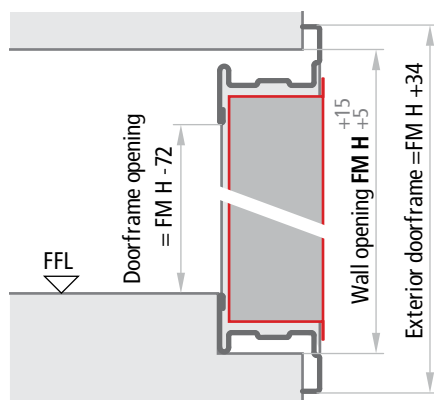
## Doors without lower threshold

Vertical cross section



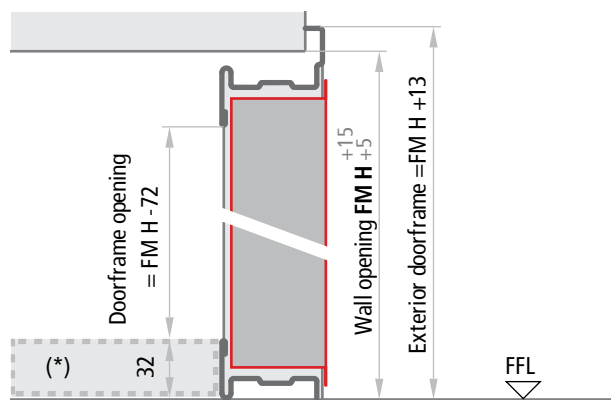
## Doors with internal and external lower threshold

Vertical cross section



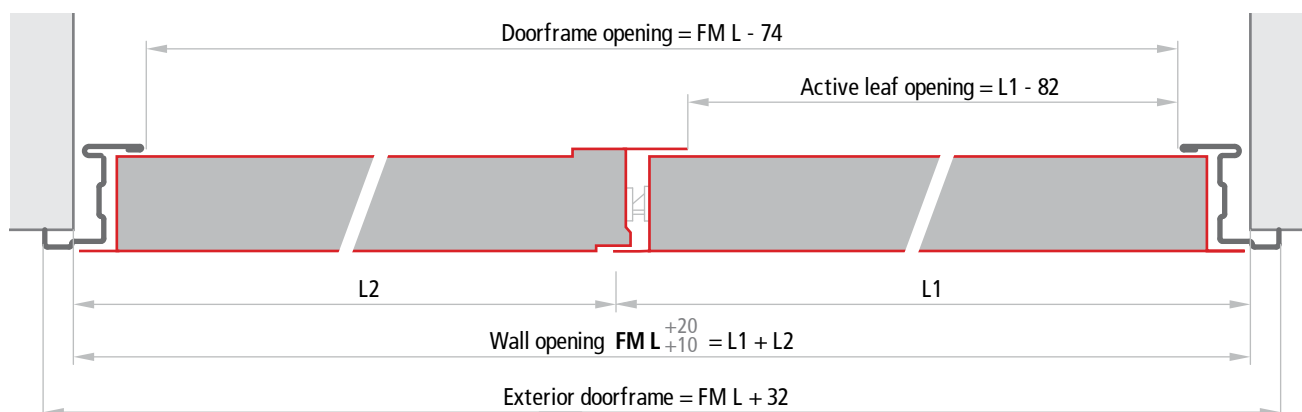
## Doors with internal lower threshold

Vertical cross section



## Two-leaved doors

Horizontal cross section



## Leaf thickness

MULTIPURPOSE 50 mm

## NOTE

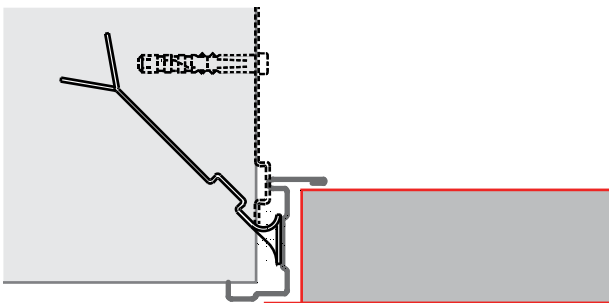
The tolerances FM L  $\begin{smallmatrix} +20 \\ +10 \end{smallmatrix}$ , FM H  $\begin{smallmatrix} +15 \\ +5 \end{smallmatrix}$  of the indicated measurements make it easier to fill the gap between the wall and the doorframe with cement mortar. For dry wall installation, the holes must be precise and greater tolerance ranges should not be employed.

\*) Shimming to be done, mandatory in case of installation onto emergency exit routes.

## INSTALLATION WITH ANCHORS FOR MORTAR FIXING

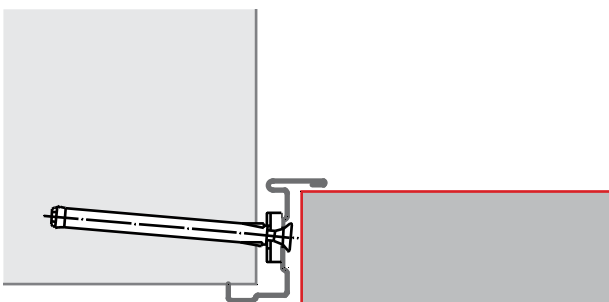


For mortar fixing, appropriate cuts will need to be created in the walls (section 80 x 200 mm) or the anchors should be fixed with expansion screws. The anchors should be bent and blocked inside the wall. For a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled with concrete mortar or polyurethane foam; the filling with polyurethane foam is mandatory in case of external use with **CE** marking.



## INSTALLATION FOR EXPANSION SCREWS FIXING

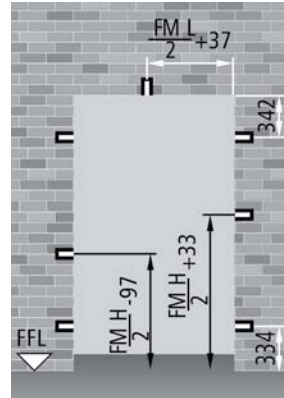
For the installation with expansion screws, the anchors serve as spacers and should not be bent. Using Würth type art. 0910436112 plugs or similar (supplied at the customer's expense), installation is done with expansion screws into the pre-drilled holes present on the frame. For a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled with concrete mortar or polyurethane foam; the filling with polyurethane foam is mandatory in case of external use with **CE** marking.



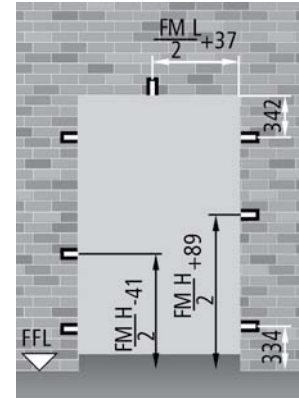
## ANCHOR POSITIONING

### One-leaved doors

Right opening

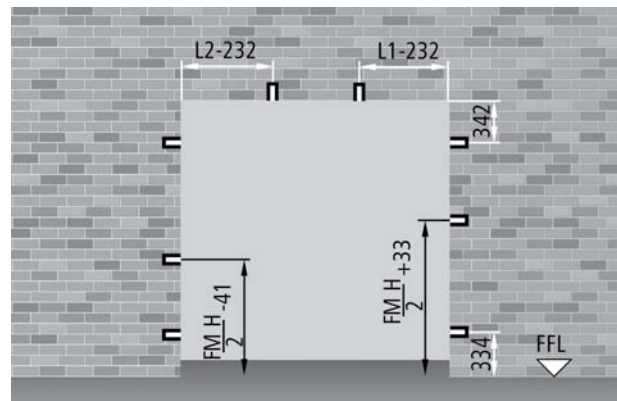


Left opening

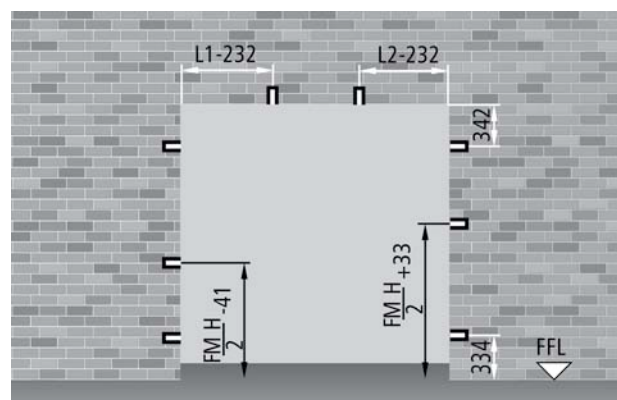


### Two-leaved doors

Right opening

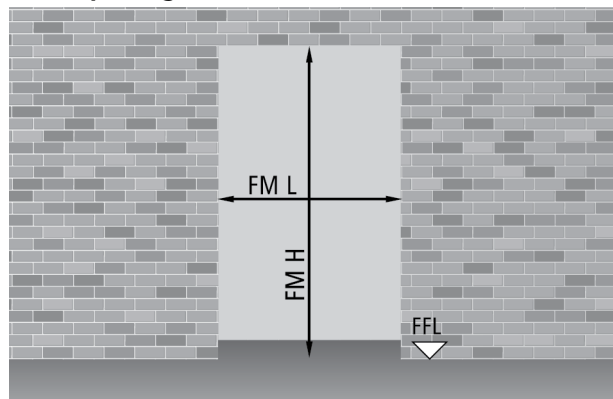


Left opening

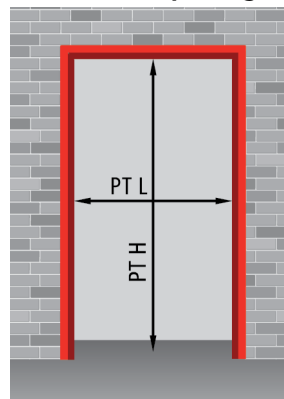


## ORDER MEASUREMENTS

### Wall opening



### Doorframe opening



#### One-leaved doors

$$PT L = FM L - 74$$

$$PT H = FM H - 40$$

#### Two-leaved doors

$$PT L = FM L - 74$$

$$PT H = FM H - 40$$

### One-leaved door FM L x FM H

#### standard dimensions

800	x	2050 / 2100 / 2150 / 2200*
900	x	2050 / 2100 / 2150 / 2200*
1000	x	2050 / 2100 / 2150 / 2200*
1100	x	2050 / 2100* / 2150 / 2200*
1200	x	2050 / 2100* / 2150 / 2200*
1300	x	2050 / 2100* / 2150 / 2200*
1350	x	2050 / 2100* / 2150 / 2200*

### PT L x PT H

#### doorframe opening

726	x	2010 / 2060 / 2110 / 2160
826	x	2010 / 2060 / 2110 / 2160
926	x	2010 / 2060 / 2110 / 2160
1026	x	2010 / 2060 / 2110 / 2160
1126	x	2010 / 2060 / 2110 / 2160
1226	x	2010 / 2060 / 2110 / 2160
1276	x	2010 / 2060 / 2110 / 2160

#### semi-standard dimensions

from 500 to 1345	x	2050 / 2150	from 426 to 1266	x	2010 / 2110
------------------	---	-------------	------------------	---	-------------

#### non-standard dimensions

from 500 to 1350	x	from 1780 to 2150	from 426 to 1276	x	from 1740 to 2110
------------------	---	-------------------	------------------	---	-------------------

### Two-leaved doors FM L (L1+L2) x FM H

#### standard dimensions

1150	( 750 + 400)	x	2050 / 2100* / 2150 / 2200*
1200	( 800 + 400)	x	2050 / 2100* / 2150 / 2200*
1250	( 800 + 450)	x	2050 / 2100* / 2150 / 2200*
1300	( 900 + 400)	x	2050 / 2100* / 2150 / 2200*
1350	( 900 + 450)	x	2050 / 2100* / 2150 / 2200*
1400	(1000 + 400)	x	2050 / 2100* / 2150 / 2200*
1450	(1000 + 450)	x	2050 / 2100* / 2150 / 2200*
1600	( 800 + 800)	x	2050 / 2100 / 2150 / 2200*
1700	( 900 + 800)	x	2050 / 2100 / 2150 / 2200*
1800	( 900 + 900)	x	2050 / 2100 / 2150 / 2200*
1900	(1000 + 900)	x	2050 / 2100 / 2150 / 2200*
2000	(1000 + 1000)	x	2050 / 2100 / 2150 / 2200*

### PT L x PT H

#### doorframe opening

1076	x	2010 / 2060 / 2110 / 2160
1126	x	2010 / 2060 / 2110 / 2160
1176	x	2010 / 2060 / 2110 / 2160
1226	x	2010 / 2060 / 2110 / 2160
1276	x	2010 / 2060 / 2110 / 2160
1326	x	2010 / 2060 / 2110 / 2160
1376	x	2010 / 2060 / 2110 / 2160
1526	x	2010 / 2060 / 2110 / 2160
1626	x	2010 / 2060 / 2110 / 2160
1726	x	2010 / 2060 / 2110 / 2160
1826	x	2010 / 2060 / 2110 / 2160
1926	x	2010 / 2060 / 2110 / 2160

#### semi-standard dimensions

from 900 (500+400) to 2000 (1000+1000)	x	2050 / 2150	from 826 to 1926	x	2010 / 2110
--	---	-------------	------------------	---	-------------

#### non-standard dimensions

from 900 (500+400) to 2000 (1000+1000)	x	from 1780 to 2150	from 826 to 1926	x	from 1740 to 2110
--	---	-------------------	------------------	---	-------------------

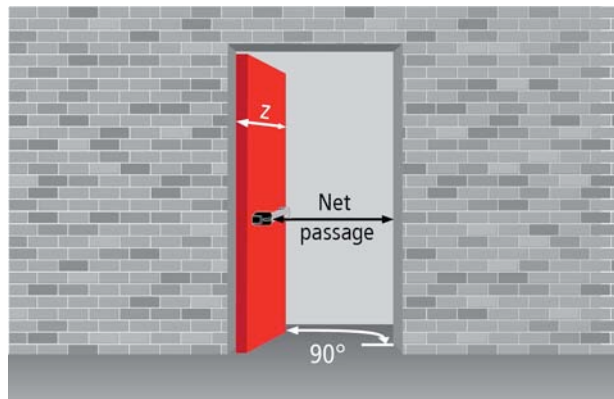
\* limited dimensions available - see the price list

#### NOTE

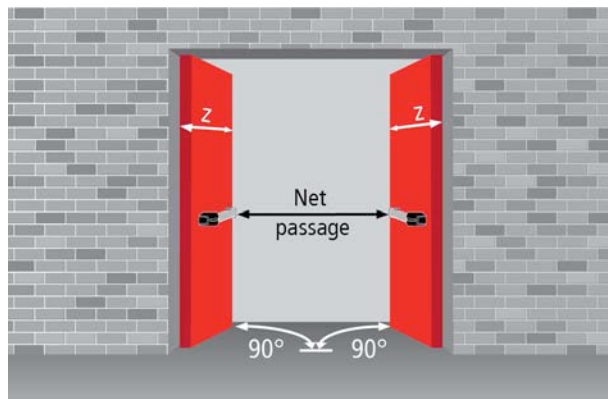
Unless specified otherwise by the customer, two-leaved standard, semi-standard and customized doors are supplied with a right-pull opening direction.

## OPENING MEASUREMENTS AND OVERALL DIMENSIONS WITH 90 DEGREE OPENING

### One-leaved doors with panic bar



### Two-leaved doors with panic bars



### Net passage calculation

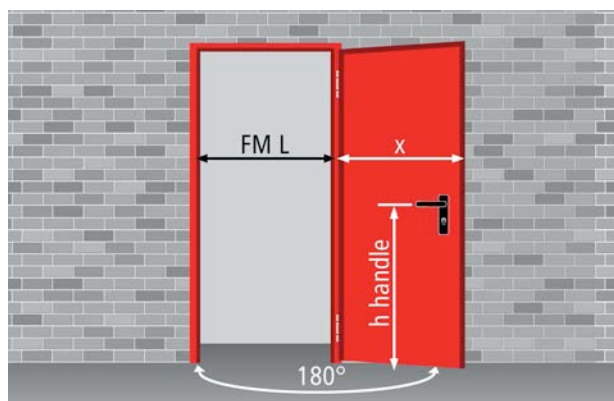
panic bar type	protrusion	one-leaved door	two-leaved door
EXUS	125	FML - 226	FML - 378
TWIST	100	FML - 201	FML - 328
SLASH	75	FML - 176	FML - 278
FAST TOUCH	75	FML - 176	FML - 278
without panic bar	-	FML - 101	FML - 128
z = leaf protrusion relative to the wall		FML + 29	L1 + 30 L2 + 75

## OVERALL DIMENSIONS WITH 180 DEGREE OPENING - HANDLE HEIGHT

### One-leaved door

$$x = FML + 4$$

$$h \text{ handle} = FMH/2 + 50$$

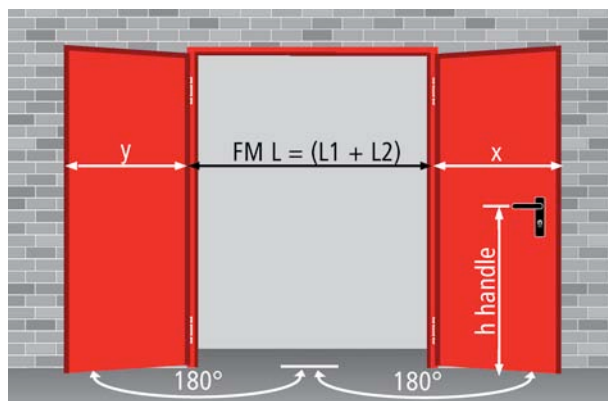


### Two-leaved door

$$x = L1 + 4$$

$$y = L2 + 50$$

$$h \text{ handle} = FMH/2 + 50$$



**"safer because  
they are sturdier"**

Ascensore/Lift





# PROGET NINZ Doors

MULTIPURPOSE VERSION

FEATURES	74 - 77
SPECIFIC OPTIONAL ACCESSORIES	78 - 87
EXTERNAL DOORS CE MARKED	88 - 89
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ORDER MEASUREMENTS - HANDLE HEIGHT	93 - 94
OPENING MEASUREMENTS - OVERALL DIMENSIONS	95

# Features

## PROGET multipurpose doors

### THE MULTIPURPOSE DOOR IN A CLASS OF ITS OWN

#### „Indisputable quality“

- Especially sturdy door for safe functioning over time
- Built to order for all kinds of requests
- Fully galvanized door, including the “hidden” parts
- Made of “Sendzimir” processed hot-galvanized sheet metal
- Corrosion protection also provided along cut edges of the metal sheets
- Painted with epoxy-polyester thermoset powders in a 180 degrees (Celsius) oven
- Substantial paint layer (70 microns plus)
- Optimal corrosion resistance demonstrated by 500 hour salt-fog test
- Unaffected by severe climate changes, demonstrated by 2000 hours with +60° to -10° cycles at 75% humidity
- Finishing with high-quality aesthetics
- Orange skin anti-scratch structured paint
- Customizable with wide selection of RAL colors

#### CE marking for external use

- Wind resistance and water tightness
- Acoustic and thermal isolation
- Air permeability
- Suitable for use with panic bar

#### “Practicality of use”

- Truly sturdy frame that facilitates anchoring to the wall
- Suitable for all types of walls
- Ample size range
- Wide variety of accessories
- Easy installation

#### “Versatility”

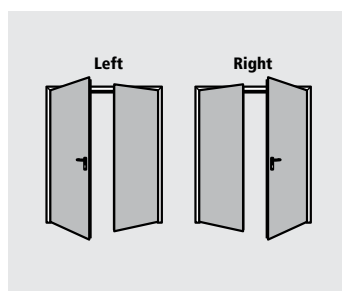
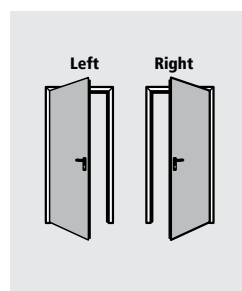
- Very wide field of application
- Can be combined with various frame types
- Installation onto any wall type
- Installation with a block frame possible

#### “Manufacturing technology”

- Manufacturing in modern and functional facilities which employ the latest technologies to maintain high quality levels and product uniformity
- The entire production process - from raw materials to painted and packaged products - takes place inside Ninz’s own facilities, ensuring a 360 degree door control

#### Opening direction

Opening direction needs to be indicated while ordering



One-leaved doors



Two-leaved doors

## STANDARD ELEMENTS

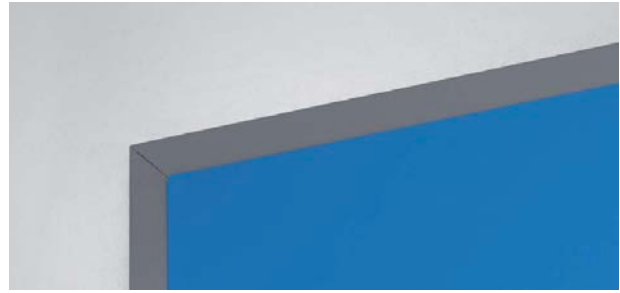
which comprise Proget fire doors:

### Door leaf

- Made of "Sendzimir" processed hot-galvanized sheet metal, press folded and electro welded
- Perimetral rebate on 3 sides, flat at the bottom
- Internally reinforced with hot-galvanized steel profiles
- Heat-insulated treated mineral wool packing that is rigidly joined to the sheet metal
- Internal stiffeners for overhead door closer and panic bar
- Single thickness of 60 mm

### Standard frame

- Sturdy profile with a sizeable cross section
- Made of "Sendzimir" processed hot-galvanized sheet metal
- Equipped with special assembly brackets
- Grooves for rebate sealing
- Standard installation via anchors for mortar fixing
- Upon request installation via expansion or installation screws (delivered without wall anchors)
- Lower spacer, mounting template
- Rests on finished flooring without rebate
- Strike plates in black plastic for lock bolt and safety bolts
- Assembly required for doorframes



### Hinges

- Nr. 2 three-wing hinges for each leaf
- of which one ball-bearing hinge with screws for vertical adjustment of the leaf, **CE** marked as per EN 1935, classified for up to 160 kg load, 200.000 cycles durability, suitable for fire door use
- and one hinge with self-closing spring

### Safety bolts

- Nr. 1 sturdy safety bolt applied on hinge side leaf edge

### Locking mechanism

- Reversible locking mechanism with bolt and central latch
- Insert with patent key, Euro profile cylinder ready

### Handle

- Handle in black plastic with steel core
- Steel installation plate with cylinder hole
- Cover plate in black plastic
- Fastener screws and patent key insert

# Features

## PROGET multipurpose doors



### INCLUDED ACCESSORIES

which comprise Proget multipurpose doors:

#### Locking mechanism on inactive leaf

- "Flush-bolt" automatic latching of the inactive leaf
- Lever control for unlocking

#### Upper coupling system for the inactive leaf

- Inactive leaf lock activated device which inserts rod into the upper strike box
- Upper strike box in pierced steel with steel roller

#### Lower coupling system for the inactive leaf

- Vertical rod with steel point which inserts into lower strike box
- Lower floor catch (floor-mounted bushing) made of black plastic with rebate stopper

#### Identification plate

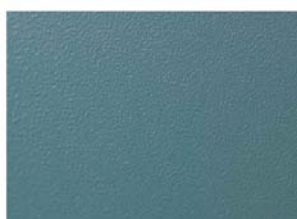
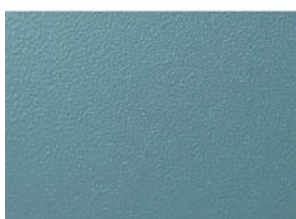
- Metal tag with door identification data



#### Standard paint - group 01:

leaf color NCS 4020-B50G

frame color NCS 5020-B50G



### Finishing

- Standard paint with epoxy-polyester thermoset powders in a 180 degrees oven, orange skin, anti-scratch finishing
- Standard pastel turquoise color, lighter tone for the leaf (NCS4020-B50G), darker tone for the frame (NCS5020-B50G)

### Standard packaging

- Single leaf wrapped into stretchable polyethylene (PE) film
- Single packaging for each doorframe with stretchable polyethylene (PE) film
- Palletized on wooden pallets

### Door weight

kg/m<sup>2</sup> of wall opening

1 leaf	29
2 leaves	26

### NOTE

If the door ever needs to be repainted, follow the precise instructions on the "Painting" page.

### OPTIONAL ACCESSORIES

*A wide variety of accessories and surface finishes are available on request for maximum value enhancement of Proget doors to your own specific needs.*

*The proper accessories can help resolve:*

#### Safety-related needs

- Doors for panic exits (see panic bars)
- Doors for emergency exits (see emergency exit handles)
- Three-point locking mechanism

#### Installation and utilization needs

- Special frames
- Frame extensions
- Different kinds of floor mounted floor catches
- Roofing and drip steel-profile
- Special installation screws
- Kick and protection plates in stainless steel
- Rectangular windows, standard or built to order
- Round windows
- Wide variety of louvers
- One-leaved door with frame on four sides

#### Access-related control issues

- Electrically-activated lock mechanisms
- Electric handle mechanisms
- Magnetic blocking mechanisms

#### Performance enhancing

- Sealing
- Cylinders
- Door closers
- Special handles



#### Customized finishing

- Select finishing from a wide variety of RAL colours
- NDD – Ninz Digital Decor, graphic images applied with special ink jets and protected by a transparent topcoat. Infinite varieties of customizable decorations in harmony with specific door settings
- Stainless steel handles
- Colored handles

#### Packaging for maximum protection

Sturdy wooden crates protect all doors and related accessories

- For NDD decorated doors
- On construction sites
- During shipping abroad
- For special transport

#### NOTE

Details about optional accessories may be found in the present brochure in chapters:

- Painting and NDD decorations
- Accessories for metal doors
- Emergency handles and panic bars

## MULTIPURPOSE WINDOW WITH METAL WINDOW FRAME

Upon request one- and two-leaved doors may be equipped with round or rectangular windows, with different types of glass and respective window frames fixed with screws. The window frame carters are included for round window and available as an optional accessory for the rectangular one.

### Production limits

Window sizes are standard and the minimum border strips around the window may not be reduced.

### Borders, window position

"Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

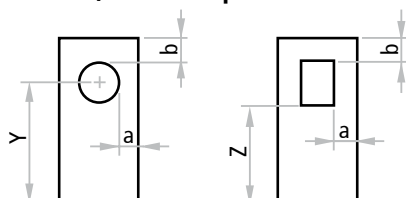
### Elevation for round windows

window dimensions	FM H	position
Ø 300	minimum 1950	Y=1600
Ø 300	less than 1950	Y=FM H - 350
Ø 400	minimum 2150	Y=1600
Ø 400	from 1950 to 2149	Y=1550
Ø 400	less than 1950	Y=FM H - 400

### Elevation for rectangular windows

window dimensions L x H	FM H	position
250/300/400 x 400	minimum 2150	Z=1450
250/300/400 x 400	from 1950 to 2149	Z=1350
250/300/400 x 400	less than 950	Z=FM H - 600
400 x 600	minimum 2150	Z=1250
400 x 600	from 1950 to 2149	Z=1150
400 x 600	less than 1950	Z=FM H - 800
400 x 1200	minimum 2150	Z=650
400 x 1200	from 1950 to 2149	Z=550
400 x 1200	less than 1950	Z=FM H - 1400
400 x 600 KIPP	minimum 2150	Z=1250
400 x 600 KIPP	from 2050 to 2149	Z=1150
400 x 600 KIPP	less than 2050	Z=FM H - 800
min. 250 x 250		Z=as indicated by costumer

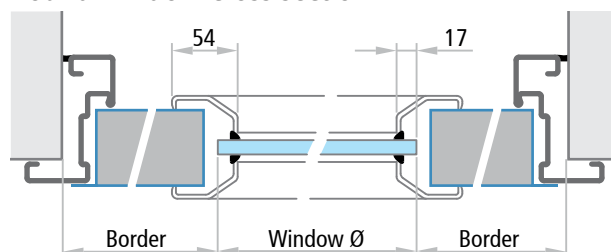
### Borders, window position



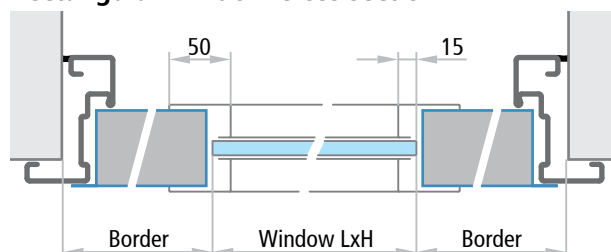
### NOTE

For the rectangular windows the frame carters are an optional accessory

### Round window cross section

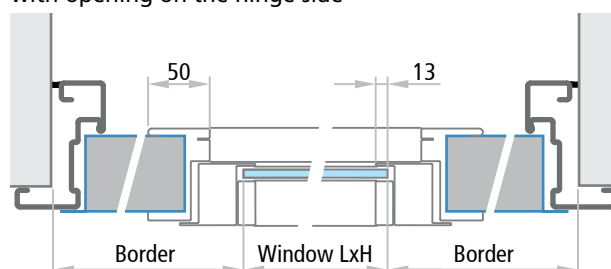


### Rectangular window cross section



### KIPP window cross section

with opening on the hinge side






# Specific optional accessories - Windows

PROGET multipurpose doors



## Window dimensions

		min. border		dimensions FM L min.	
		a	b	L1	L2
	Ø 300	200	200		700
	Ø 400				800
	Ø 300	200	200	L1 700 + L2 350	
	Ø 400			L1 800 + L2 350	
	Ø 300	200	200	L1 700 + L2 700	
	Ø 400			L1 800 + L2 800	

## Glasses available

## shapes





laminated, 2B2 rated	3 + 3 mm	rectangular, circular
laminated, 2B2 rated	4 + 4 mm	rectangular
low emission double glass window with 2 laminated glazings 2B2 rated	3+3 / 12 / 3+3 mm	rectangular
laminated, 2B2 rated	3 + 3 mm	Kipp rectangular

## NOTE

Position and measurements indicated above are those standard.

Different positions may be considered as long as they respect the minimum "a" and "b" border strips. The window itself may not be supplied separately except for replacements. It is always advisable for doors with windows to be equipped with door closers for controlled closing.

## Window dimensions

		min. border		dimensions FM L min.	
		a	b	L1	L2
	250 x 400	200	200	650	
	300 x 400	200	200	700	
	400 x 400	200	200	800	
	400 x 600	200	200	800	
	400 x 1200	200	200	800	
	Windows made to order min.250x250	200	200	650	
	400 x 600 KIPP	300	300	1000	
	250 x 400	200	200	L1 650 + L2 350	
	300 x 400	200	200	L1 700 + L2 350	
	400 x 400	200	200	L1 800 + L2 350	
	400 x 600	200	200	L1 800 + L2 350	
	400 x 1200	200	200	L1 800 + L2 350	
	Windows made to order min.250x250	200	200	L1 650 + L2 350	
	400 x 600 KIPP	300	300	L1 1000 + L2 350	
	250 x 400	200	200	L1 650 + L2 650	
	300 x 400	200	200	L1 700 + L2 700	
	400 x 400	200	200	L1 800 + L2 800	
	400 x 600	200	200	L1 800 + L2 800	
	400 x 1200	200	200	L1 800 + L2 800	
	Windows made to order min.250x250	200	200	L1 650 + L2 650	
	400 x 600 KIPP	300	300	L1 1000 + L2 1000	

## MULTIPURPOSE WINDOW WITH RUBBER WINDOW FRAME

On request, one- and two-leaved doors may be equipped with round or rectangular windows, with laminated 3+3mm glass, 2B2 rated, framed with a black rubber EPDM profile.

The corners of rectangular windows are rounded (radius of approx. 100mm).

### Production limits

Window sizes are standard and the minimum border strips around the window may not be reduced.

### Borders, window position

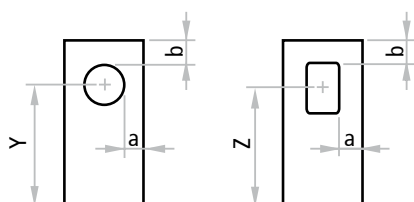
"Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

### Elevation for round windows

window dimensions	FM H	position
Ø 300	minimum 1950	Y=1600
Ø 300	less than 1950	Y=FM H - 350
Ø 400	minimum 2000	Y=1600
Ø 400	less than 2000	Y=FM H - 400

### Elevation of rectangular windows

window dimensions L x H	FM H	position
300 x 500	minimum 1950	Z=1500
300 x 500	less than 1950	Z=FM H - 450
400 x 700	minimum 2050	Z=1500
400 x 700	less than 2050	Z=FM H - 550

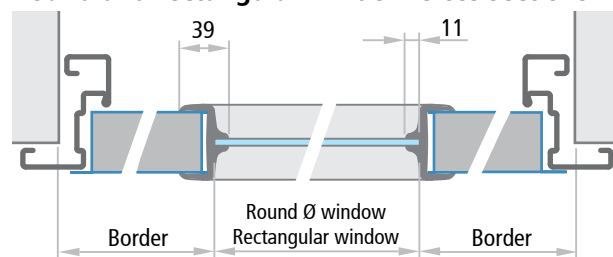


### NOTE

The positions indicated above are those standard. Different positions may be considered as long as they respect the minimum "a" and "b" border strips. The window itself may not be supplied separately except for replacements. It is always advisable for doors with windows to be equipped with door closers for controlled closing.



### Round and rectangular window cross sections



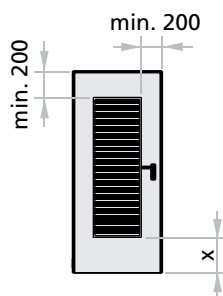
### Window dimensions

		minimum border		FM L min. dimensions
		a	b	
	Ø 300	200	200	700
	Ø 400	200	200	800
	Ø 300	200	200	L1 700 + L2 350
	Ø 400	200	200	L1 800 + L2 350
	Ø 300	200	200	L1 700 + L2 700
	Ø 400	200	200	L1 800 + L2 800
	300 x 500	200	200	700
	400 x 700	200	200	800
	300 x 500	200	200	L1 700 + L2 350
	400 x 700	200	200	L1 800 + L2 350
	300 x 500	200	200	L1 700 + L2 700
	400 x 700	200	200	L1 800 + L2 800

## VENTILATING LOUVERS WITH METAL FRAMES

To permit continuous air movement through the door, different types of ventilating louvers are available upon request in standard or non-standard formats. The screw-on metal frames for the ventilating louvers are painted the same color as the leaf using thermoset epoxy-polyester powders. On request air flow estimates calculated by a special program can be supplied for the dimensions of the ventilating louvers.

The vertical position of the louvers needs to be indicated on the order.



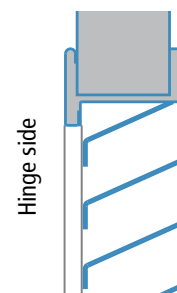
x = min. 200 mm for louver heights up to 1200 mm  
x = min. 500 mm for louver heights over 1200 mm



### Louver with steel grate plates

Louver with steel grate plates only. Standard production employs angled steel grate plates that slope downwards in the same direction as the door pull.

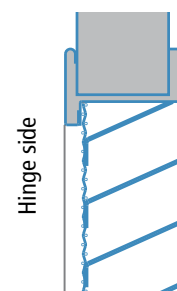
Dimensions L x H	estimated air flow
300 x 400	500 cm <sup>2</sup>
400 x 600	1100 cm <sup>2</sup>
400 x 1200	2500 cm <sup>2</sup>
to order	on request



### Louver with steel grate plates and anti-rodent mesh

Louver with steel grate plates overlaid with a metal anti-rodent mesh (13x13x1mm sheet). Standard production employs angled steel grate plates that slope downwards in the same direction as the door pull.

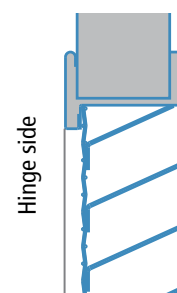
Dimensions L x H	estimated air flow
300 x 400	400 cm <sup>2</sup>
400 x 600	900 cm <sup>2</sup>
400 x 1200	2000 cm <sup>2</sup>
to order	on request



### Louver with steel grate plates and anti-insect mesh

Louver with steel grate plates overlaid with a metal anti-insect mesh (6,3x6,3x0,55mm sheet). Standard production employs angled steel grate plates that slope downwards in the same direction as the door pull.

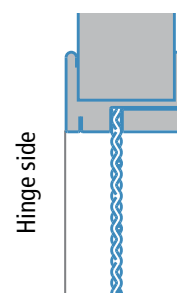
Dimensions L x H	estimated air flow
300 x 400	400 cm <sup>2</sup>
400 x 600	800 cm <sup>2</sup>
400 x 1200	2000 cm <sup>2</sup>
to order	on request



### Anti-rodent mesh

Metal frame with metal anti-rodent mesh only (16x16x3mm sheet).

Dimensions L x H	estimated air flow
300 x 400	700 cm <sup>2</sup>
400 x 600	1500 cm <sup>2</sup>
400 x 1200	3100 cm <sup>2</sup>
to order	on request



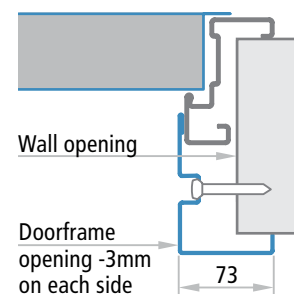
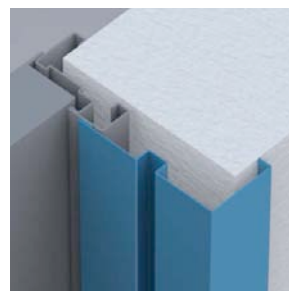
# Specific optional accessories

## PROGET multipurpose doors

### FRAME EXTENSIONS FOR PROGET DOORS

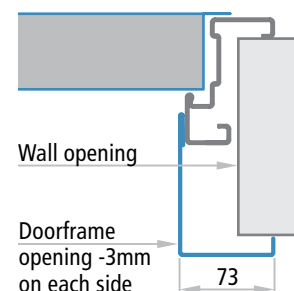
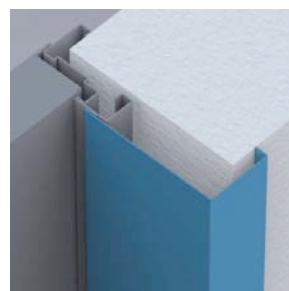
#### IM 1

Frame extension to be mounted in addition to the Proget acting as a wall cladding. Made of "Sendzimir" processed hot-galvanized sheet metal and painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 45 degree joint, fixing with screws and plugs in groove (screws and plugs not included).



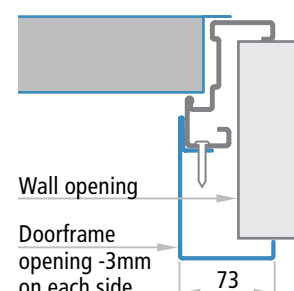
#### IM 3

Frame extension to be mounted in addition to the Proget acting as a wall cladding. Made of "Sendzimir" processed hot-galvanized sheet metal and painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 45 degree joint, fixing with screws and plugs (screws and plugs not included).



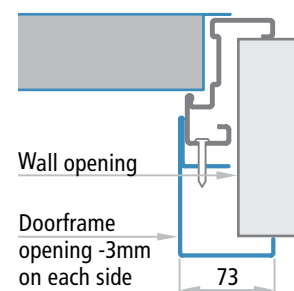
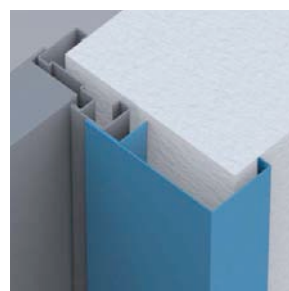
#### IM 4

Frame extension to be screwed to the Proget doorframe acting as a wall cladding. Made of "Sendzimir" processed hot-galvanized sheet metal painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint. Complete with fastener screws. To mount the frame extension, pre-drilled holes are available on the frame. Combine with sealing to conceal the screw heads.



#### IM 5

Telescopic frame extension to be screwed to the Proget doorframe acting as a wall cladding for expansion screw fixing. Consists of two overlapping profiles with a 25mm adjustable range. Made of "Sendzimir" processed hot-galvanized sheet metal painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint. Complete with fastener screws. To mount the frame extension, pre-drilled holes are available on the frame. Combine with sealing to conceal the screw heads.



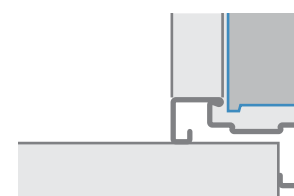
### FRAME ON FOUR SIDES

Upon request one-leaved Proget doors may be supplied with frames on four sides and leaves with or without lower rebate. These type of doors are used mainly for technical rooms or shafts.

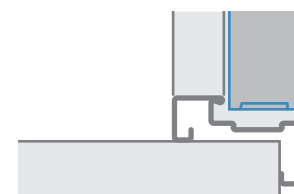
The frame on four sides is not available for the following applications: doors installed onto escape routes, two-leaved doors, external doors **CE** marked, application with embracing frame or block frame for in the reveal application, in combination with frame extensions.

#### ATTENTION

With the frame on four sides, the center of the handle will be 15 mm higher than the standard position. For more details, see the page "Door cross section - Measurements".



Leaf with lower rebate



Leaf without lower rebate

# Specific optional accessories

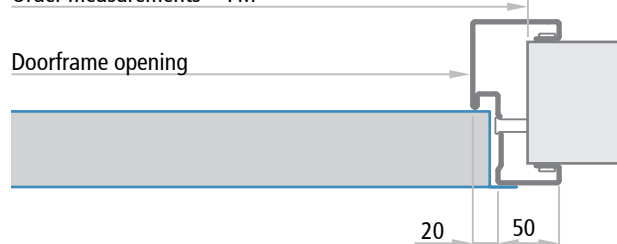
## PROGET multipurpose doors



### SPECIAL FRAMES FOR PROGET MULTIPURPOSE DOORS

Embracing three sided frame for Proget multipurpose doors with 45 degree corner joints, made of 1,25mm thick "Sendzimir" processed galvanized steel sheets. To be screwed to finished walls, including joints for assembly, hole-covering caps, sealing and RAL painting with thermoset epoxy-polyester powder paints. Pre-drilled screw holes present on the doorframe. Installation screws not included.

Order measurements = FM



Minimum wall thickness for multipurpose doors = 70 mm

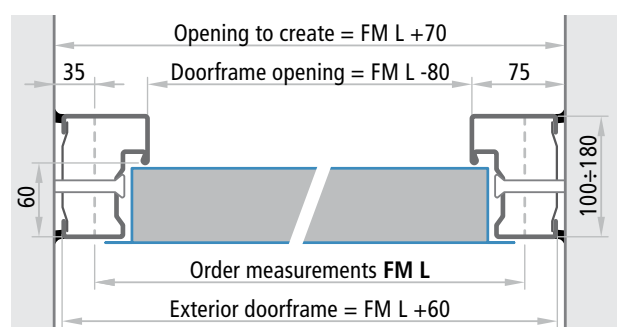
Order measurements	required wall opening	doorframe opening
FM L (width)	FM L	FM L - 80 mm
FM H (height)	FM H	FM H - 40 mm

### BLOCK FRAME FOR IN THE REVEAL (TUNNEL) APPLICATIONS

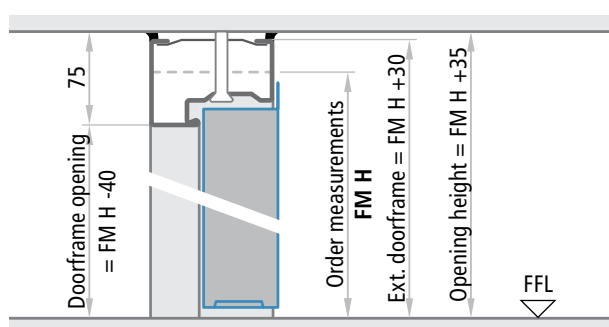
Three sided block frame application of Proget multipurpose doors with 45 degrees corner joints, made of 1,25mm thick "Sendzimir" processed galvanized steel sheets. To be screwed to finished walls and equipped with integrated attachment shackles. Includes assembly joints, hole-covering caps, sealing and RAL painting with thermoset epoxy-polyester powder paints. Pre-drilled screw holes present on the doorframe. Installation screws not included.



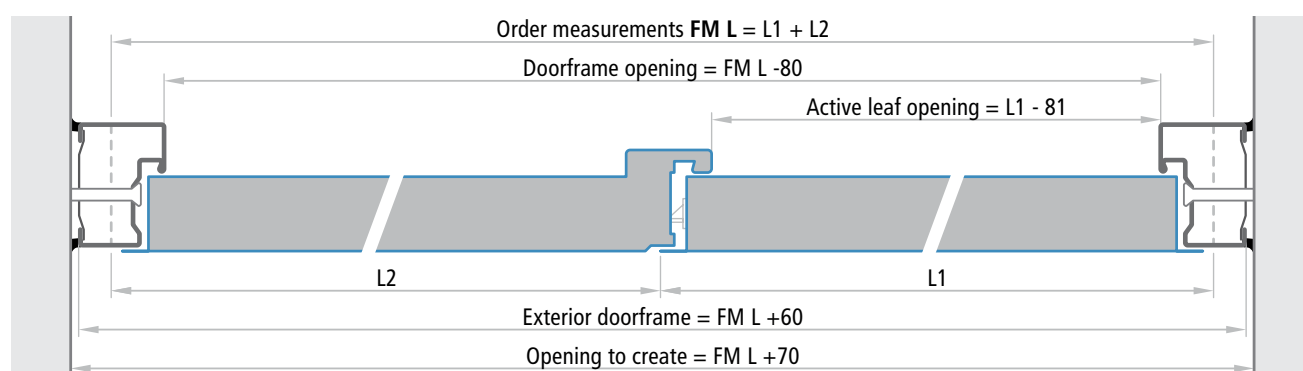
### One-leaved doors - Horizontal cross section



### Doors without lower threshold - Vertical cross section



### Two-leaved doors - Horizontal cross section

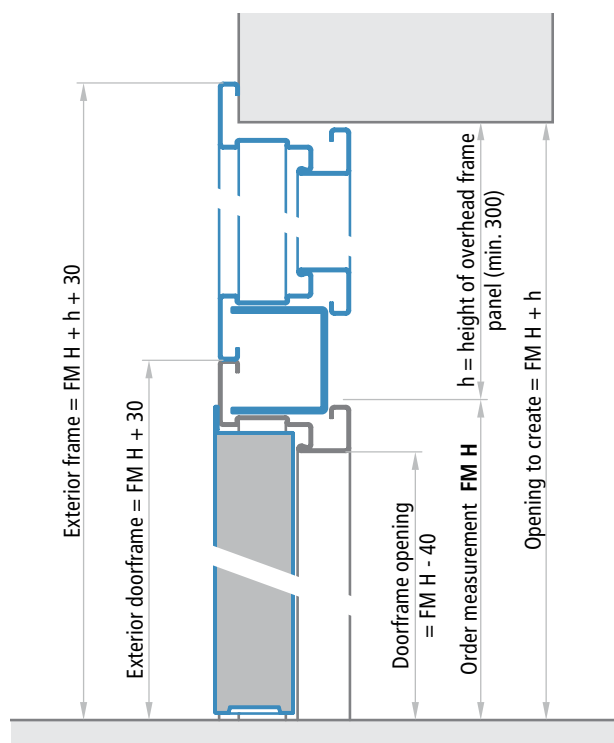
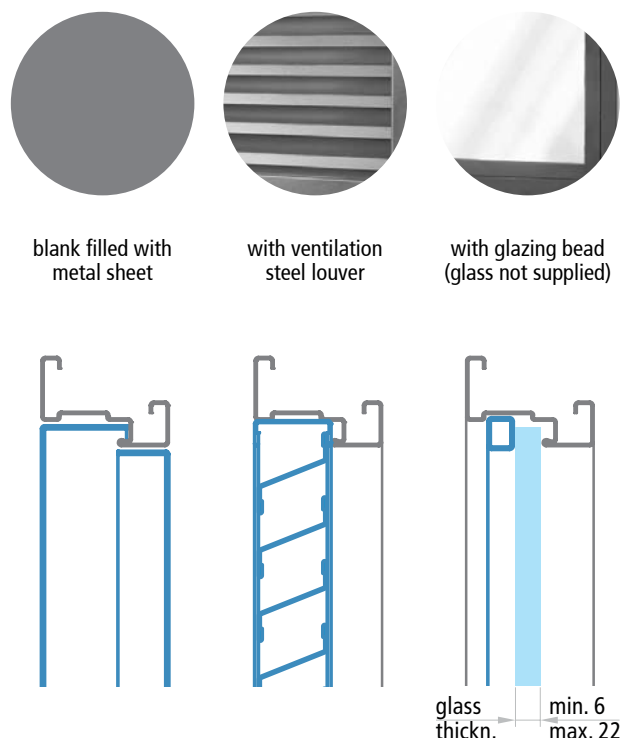
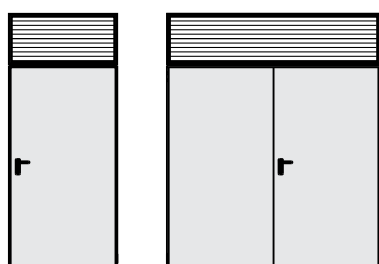


# Specific optional accessories

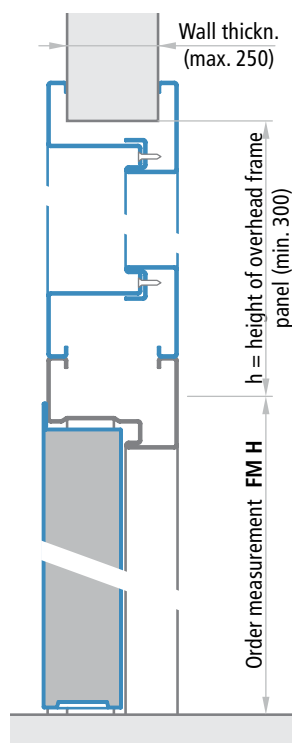
## PROGET multipurpose doors

### PROGET OVERHEAD FRAME PANEL

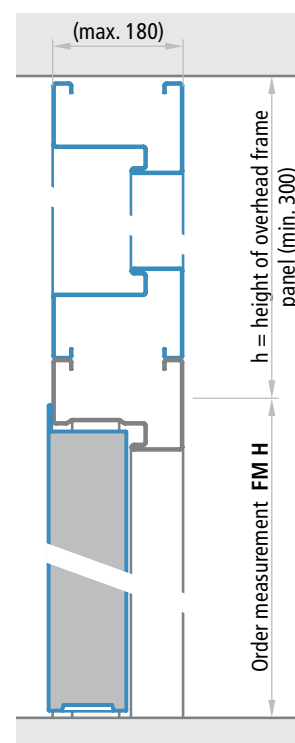
Available for the installation with Proget one- and two leaved doors in following versions: blank filled with metal sheet from both sides (without insulation), with ventilation steel louver or with glazing bead (glass not supplied); all painted in the same color as doorframe with epoxy-poly-ester thermoset powders. Profiled on four sides with the standard angular- for in the reveal application- embracing-frame profiles, corners with 45 degree joint. In case of standard doorframe is supplied with an "C" shaped profile to be fixed upon the top frame of the door and shall be drilled on site for the fastening upon door and wall. In case of embracing or block frames, pre-drilled holes are available (screws and anchors not supplied).



vertical cross section of the door with overhead panel and standard angular doorframe)



with embracing doorframe



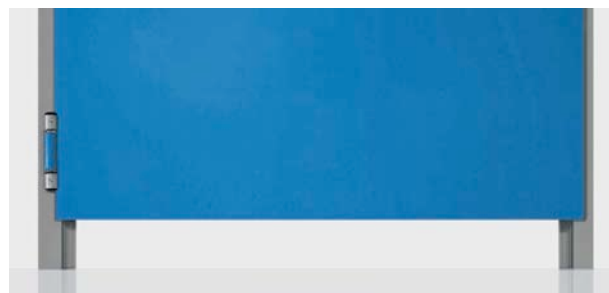
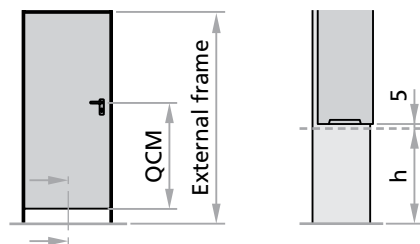
with block frame

#### NOTE

In case of overhead frame panel with glazing bead, the thickness of glass (not supplied) min. 6 mm and max. 22 mm must be specified.

### DOOR WITH EXTENDED FRAME

For one-leaved Proget doors only. Frame extends beyond the door leaf to create a gap below the door with height (h) varying of between 50 to 200 mm. Using the standard Proget door leaf and an extended the frame, the desired handle height (QCM) must be specified when ordered. In the absence of such indication, the QCM will be 1050mm.



Standard handle height	external frame	opening to create
1050	$FM H + h + 30$	$FM H + h$

#### NOTE

Not available for multipurpose doors Proget with  $\text{C}\epsilon$  marking.

### MORTICE LOCK WITH ROLLER LATCH AND G1X DOUBLE FIX GRAB DOOR HANDLE IN STAINLESS STEEL

For multipurpose one- or two-leaved Proget doors. Designed to permit free pedestrian passage, by simply pushing or pulling the door by the fix grab.

Usually the lock is not locked by key, thus the opening is possible by simple pulling or pushing, disengaging the roller latch. It is possible to regulate the engagement force of the roller latch, by turning the regulation screw visible on the cover plate of the lock. By locking the lock by key, the dead bolt blocks the opening of the door from both sides.

Included (factory mounted to the door): mortice lock with roller latch and central dead bolt activated by the cylinder; included (supplied on the side): item G1X which comprises a pair of brushed fix grab door handles in stainless steel (diameter 30mm, length 400mm, projection 90mm), a fixing kit for the handles to the door and a pair of escutcheons in brushed stainless steel with cylinder hole for euro profile cylinder (cylinder excluded, to be ordered separately).



Mortice lock with roller latch and G1X: pair of brushed fix grab door handles in stainless steel, installed on multipurpose Proget door

#### NOTE

Not available for multipurpose doors Proget with  $\text{C}\epsilon$  marking.

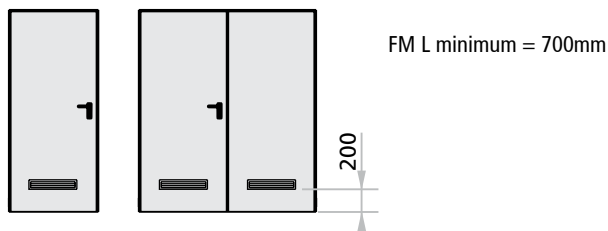
## Specific optional accessories

### PROGET multipurpose doors

**NINZ**<sup>®</sup>  
FIREDOORS

#### VENTILATION LOUVER

Ventilation louver made of either black or white PVC, 482x99mm (air passage approx. 150cm<sup>2</sup>). The opening direction of the door needs to be specified.



#### Dimensions

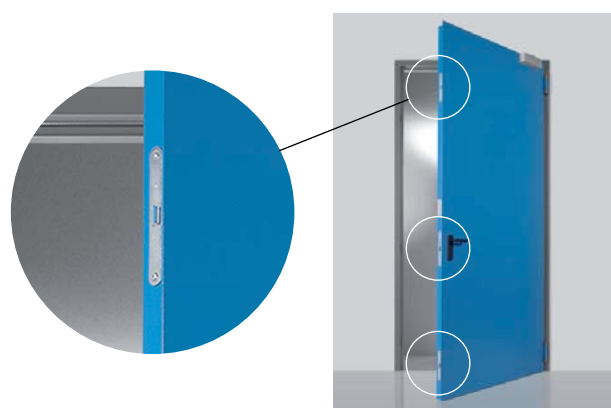
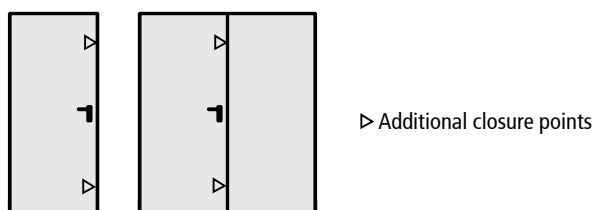
482 x 99

#### estimated air flow

150 cm<sup>2</sup>

#### THREE-POINT LOCKING MECHANISM

Upon request for a more reliable closure, one- and two-leaved Proget multipurpose doors may be delivered with a three-point lateral lock. In combination with double M1 handle and cylinder. The lock is also available for anti-panic and emergency push versions. Thus the three-point locking mechanism can be combined with emergency handles or with EXUS, TWIST, SLASH type BM panic bars in conformity with CE marking.

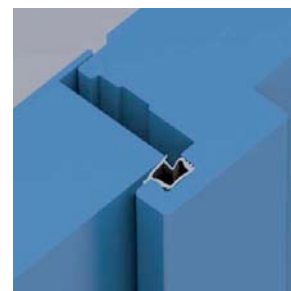


#### NOTE

Three point locking mechanism can be combined with M1, M1C, M1X, M11 and M11X handles only.

#### FF REBATE SEALING

FF sealing in black extruded profile to cut and to be pressed into the dedicated groove in the perimetral frame and on the central joint of two-leaved doors.



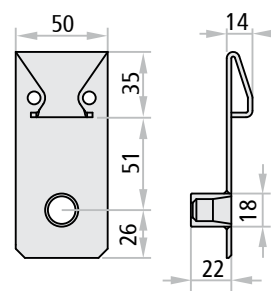
## Specific optional accessories

### PROGET multipurpose doors



#### STEEL FLOOR CATCH

Floor-mounted steel floor catch for two-leaved Proget doors. Made of pierced and successively galvanized steel. Includes rebate stop for the inactive leaf, the strike box for insertion of the rod, Nr. 3 screws and Nr. 3 plugs. To be used in place of the plastic floor catch for doors that usually remain open and where carts and heavy equipment pass on a regular basis.



#### RETREATING FLOOR CATCH „N626“

To be applied in combination with two-leaved PROGET doors, which are usually to be kept open, in substitution of the standard floor catch. The N626's advantage is the embedding of the floor catch into the floor which is activated only by the closing of the inactive leaf. Thus when the doors are open protrusions are avoided guaranteeing nevertheless a correct closing.



#### NOTE

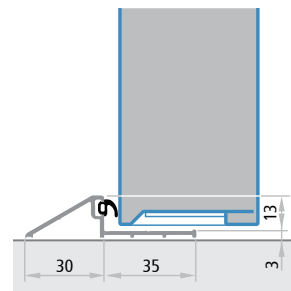
For the passing of the cable of the command function the installation into the floor of a wrinkled cable sleeve is necessary. The installation of the N626 requires trained personnel.

#### THRESHOLD

Fixed threshold in anodized aluminium supplied with relative rebate sealing. To be installed for single and double leaved doors onto the floor with screws and plugs (not supplied).

#### NOTE

This device is delivered only when the door has been ordered with CE conformity for external use. For the installation it is necessary to adapt the threshold to the frame of the door and to drill a hole for its fixing. Further it is necessary to finish up the threshold with silicone.

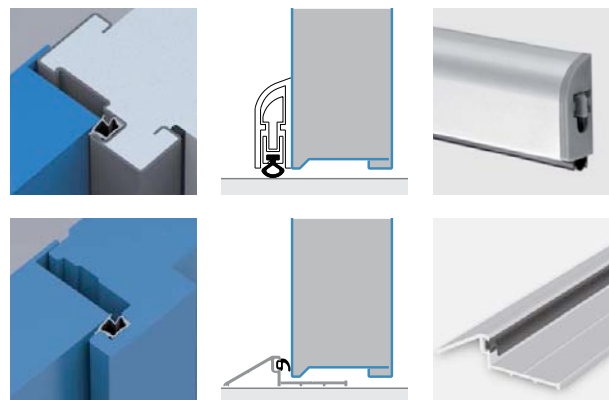


## EXTERNAL PEDESTRIAN DOORS

The norm EN 14351-1 defines as an external door, that which separates the internal climate from the external one of a construction. For this use the doors need to be **CE** marked according to the norm EN 14351-1:2006+A1:2010 and if the door is installed within an emergency exit route, which means that a panic handle or bar is installed onto it, then the door also requires a conformity declaration of type 1 and further a **CE** Certificate emitted by a notified body, which for NINZ S.p.A is the declaration 0425-CPR-2237.

For doors Proget for external use order the relative Kits listed in the Proget multipurpose price list. Refer to the essential requirements listed in the table on the next page to select the correct version in conformity with the valid national standards.

In this way every door will be delivered with the **CE** marking and relative documentation conform to the valid standard.



### ATTENTION

For the dimensional limits, minimum border measurements or production possibilities please refer to the specific pages of this brochure.

The values for the thermal transmittance  $W/m^2K$  shown in the table on the next page are given by the calculation according to the norm EN ISO 10077-1 done on samples of the dimensions 1,23x2,18 for areas  $\leq 3,6m^2$  and on samples of the dimensions 2,00x2,18 for areas  $> 3,6m^2$ .

All performance values indicated in the table are valid only in presence of the following accessories or enhancements:

- standard angular- for in the reveal application- embracing-frame
- isolation of the door frame with the filling of polyurethane foam
- installation of rubber seals FF along the entire perimeter of the door frame including the central rebate for double leaved doors
- sealing of the perimeter of the frame (side to push) with neutral silicone
- presence of the automatic door sweep or the fixed lower threshold depending upon selected solution
- for doors with windows: dimensions of 300x400mm for "3+3 / 12 / 3+3" low emission double glass windows, composed of two 3+3 laminated glazings, 2B2 rated.

In case of windows up to a maximum size of 400x600mm the differing performance value for the thermal transmittance needs to be asked, all other performance values remain unchanged.

For the acoustic isolation performance values, in case of asymmetric double leaved doors ( $L1 \neq L2$ ), select the minor  $R_w$  value of the two.

example 1: leaf without windows and  $H=2150$ ,  $L1=1000$ ,  $L2=500$  select 30 dB;






example 2: leaf without windows and  $H=2150$ ,  $L1=1200$ ,  $L2=1000$  select 32 dB.

### NOTE

For more details regarding the external installation, refer to the "Notices" section at the end of this brochure.



## Essential requirements for classifications according to certificate 0425-CPR-2237

	FM L x H dimensions	standard angular frame block frame for in the reveal applic. embracing frame	reached class with FF rebate sealing and automatic door sweep			reached class with FF rebate sealing and fix threshold			
			air permeability	thermal transmittance	acoustic performance	air permeability	thermal transmittance	water-tightness	resistance to windload
without window	≤ 3,6 m <sup>2</sup>	✓	class 2	1,31 W/m <sup>2</sup> K		class 2	1,30 W/m <sup>2</sup> K	class 1A	
	≤ 3,6 m <sup>2</sup>	✓	class 2	1,59 W/m <sup>2</sup> K		class 2	1,58 W/m <sup>2</sup> K	class 1A	
	≤ 3,6 m <sup>2</sup>	✓	class 2	1,49 W/m <sup>2</sup> K		class 2	1,48 W/m <sup>2</sup> K	class 1A	
	800 - 1100 x 2000 - 2250	✓ ✓ ✓			33 dB				
	1101 - 1340 x 2000 - 2250	✓ ✓ ✓			32 dB				
	800 - 1340 x 2251 - 2670	✓ ✓ ✓			32 dB				
	500 - 1150 x 1750 - 2150	✓ ✓ ✓							class C1
with window 300x400	≤ 3,6 m <sup>2</sup>	✓	class 2	1,78 W/m <sup>2</sup> K		class 2	1,77 W/m <sup>2</sup> K	class 1A	
	≤ 3,6 m <sup>2</sup>	✓	class 2	2,05 W/m <sup>2</sup> K		class 2	2,04 W/m <sup>2</sup> K	class 1A	
	≤ 3,6 m <sup>2</sup>	✓	class 2	1,96 W/m <sup>2</sup> K		class 2	1,95 W/m <sup>2</sup> K	class 1A	
	800 - 1100 x 2000 - 2250	✓ ✓ ✓			32 dB				
	1101 - 1340 x 2000 - 2250	✓ ✓ ✓			31 dB				
	800 - 1340 x 2251 - 2670	✓ ✓ ✓			31 dB				
	700 - 1150 x 1750 - 2150	✓ ✓ ✓							class C1
without windows	≤ 3,6 m <sup>2</sup>	✓	class 3	1,72 W/m <sup>2</sup> K		class 3	1,71 W/m <sup>2</sup> K	class 2A, 4B	
	> 3,6 m <sup>2</sup>	✓	class 3	1,40 W/m <sup>2</sup> K		class 3	1,39 W/m <sup>2</sup> K	class 2A, 4B	
	≤ 3,6 m <sup>2</sup>	✓	class 3	2,00 W/m <sup>2</sup> K		class 3	1,99 W/m <sup>2</sup> K	class 2A, 4B	
	> 3,6 m <sup>2</sup>	✓	class 3	1,60 W/m <sup>2</sup> K		class 3	1,59 W/m <sup>2</sup> K	class 2A, 4B	
	≤ 3,6 m <sup>2</sup>	✓	class 3	1,91 W/m <sup>2</sup> K		class 3	1,90 W/m <sup>2</sup> K	class 2A, 4B	
	> 3,6 m <sup>2</sup>	✓	class 3	1,54 W/m <sup>2</sup> K		class 3	1,53 W/m <sup>2</sup> K	class 2A, 4B	
	(L1 o L2) 500 - 799 x 2000 - 2670	✓ ✓ ✓			30 dB				
	(L1 o L2) 800 - 1100 x 2000 - 2250	✓ ✓ ✓			33 dB				
	(L1 o L2) 1101 - 1330 x 2000 - 2250	✓ ✓ ✓			32 dB				
	(L1 o L2) 800 - 1330 x 2251 - 2670	✓ ✓ ✓			32 dB				
with windows 300x400	850 - 2300 x 1750 - 2150	✓ ✓ ✓							class C1
	≤ 3,6 m <sup>2</sup>	✓	class 3	2,51 W/m <sup>2</sup> K		class 3	2,50 W/m <sup>2</sup> K	class 2A, 4B	
	> 3,6 m <sup>2</sup>	✓	class 3	1,90 W/m <sup>2</sup> K		class 3	1,89 W/m <sup>2</sup> K	class 2A, 4B	
	≤ 3,6 m <sup>2</sup>	✓	class 3	2,79 W/m <sup>2</sup> K		class 3	2,78 W/m <sup>2</sup> K	class 2A, 4B	
	> 3,6 m <sup>2</sup>	✓	class 3	2,09 W/m <sup>2</sup> K		class 3	2,08 W/m <sup>2</sup> K	class 2A, 4B	
	≤ 3,6 m <sup>2</sup>	✓	class 3	2,70 W/m <sup>2</sup> K		class 3	2,68 W/m <sup>2</sup> K	class 2A, 4B	
	> 3,6 m <sup>2</sup>	✓	class 3	2,02 W/m <sup>2</sup> K		class 3	2,01 W/m <sup>2</sup> K	class 2A, 4B	
	(L1 o L2) 700 - 799 x 2000 - 2670	✓ ✓ ✓			29 dB				
	(L1 o L2) 800 - 1100 x 2000 - 2250	✓ ✓ ✓			32 dB				
	(L1 o L2) 1101 - 1330 x 2000 - 2250	✓ ✓ ✓			31 dB				
	(L1 o L2) 800 - 1330 x 2251 - 2670	✓ ✓ ✓			31 dB				
	1050 * - 2300 x 1750 - 2150	✓ ✓ ✓							class C1

\* = only for single leaf with window

## other essential requirements

load-bearing capacity of safety devices	pass
ability to release	pass
dangerous substances	according to norm

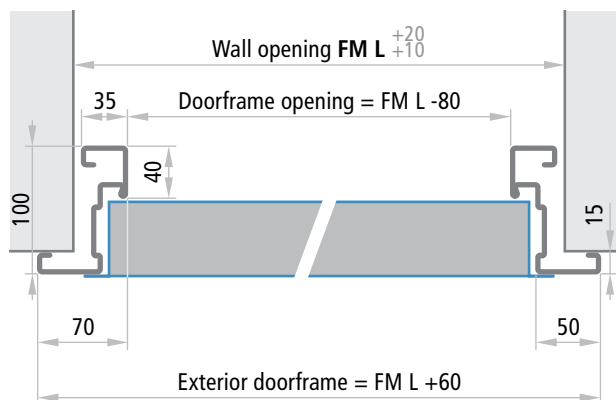
# Door cross sections - Measurements

PROGET multipurpose doors

**NINZ**  
FIREDOORS

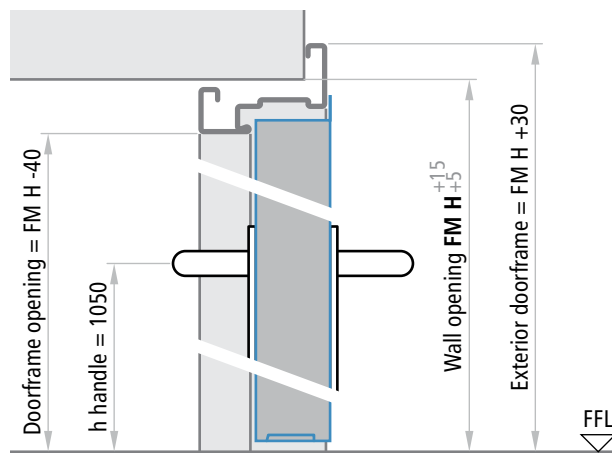
## One-leaved doors

Horizontal cross section



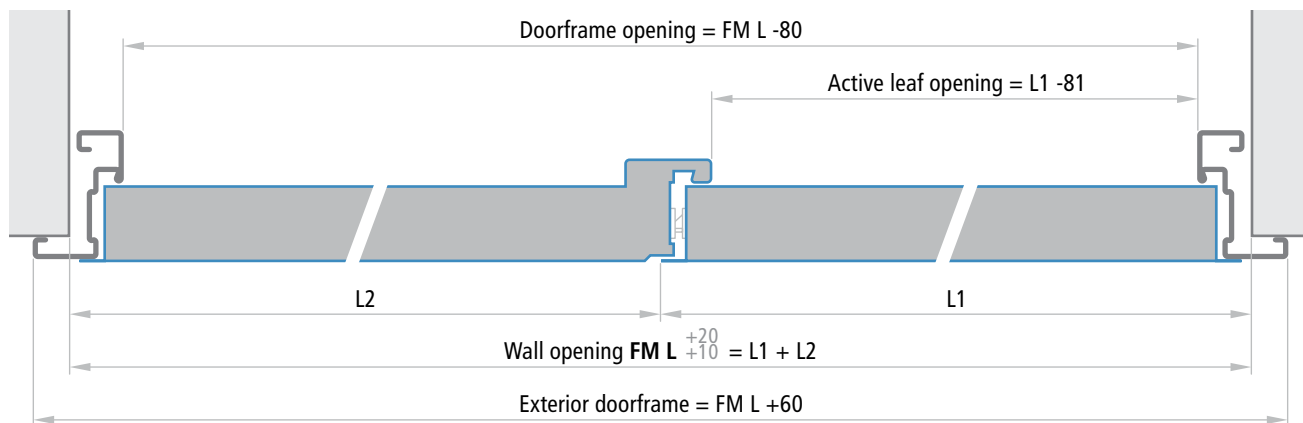
## Doors without lower threshold

Vertical cross section



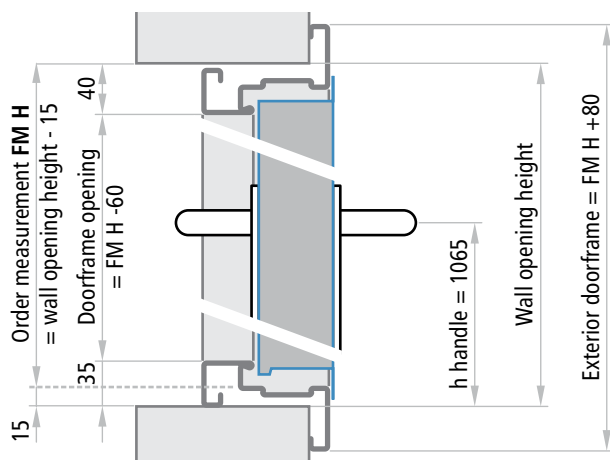
## Two-leaved doors

Horizontal cross section



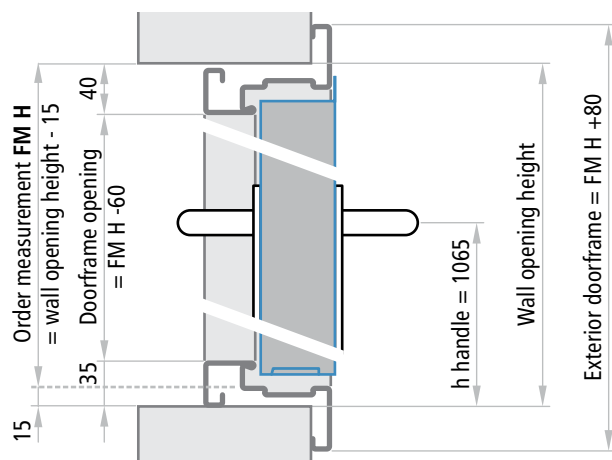
## One-leaved doors with frame on 4 sides and leaf with lower rebate

Vertical cross section



## One-leaved doors with frame on 4 sides and leaf without lower rebate

Vertical cross section



## Leaf thickness

MULTIPURPOSE 60 mm

## NOTE

The tolerances  $FM L +20 +10$ ,  $FM H +5 +15$  of the indicated measurements make it easier to fill the gap between the wall and the doorframe with cement mortar.

For dry wall installation, the holes must be precise and greater tolerance ranges should not be employed.

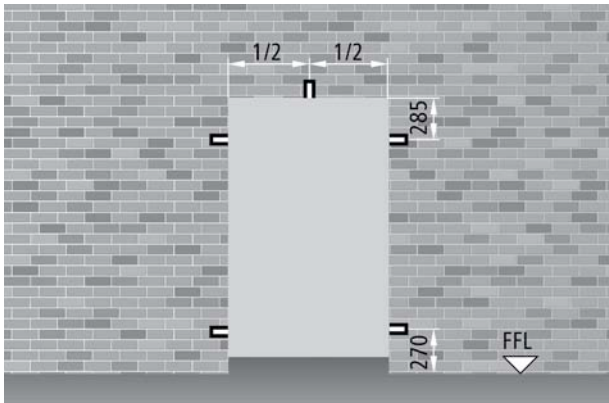
### INSTALLATION WITH ANCHORS FOR MORTAR FIXING

Standard installation method for Proget doors is with anchors for mortar fixing. Appropriate cuts for the anchors will need to be created in the walls (section 80 x 200 mm) or fixed with plugs. For fixing with screws the anchors should be used as spacers and fixed with expansion screws. For a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled with concrete mortar or polyurethane foam; the filling with polyurethane foam is mandatory in case of external use with **CE** marking.

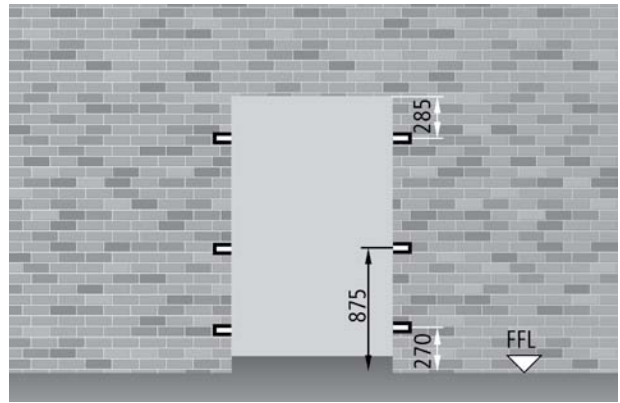


### One-leaved doors

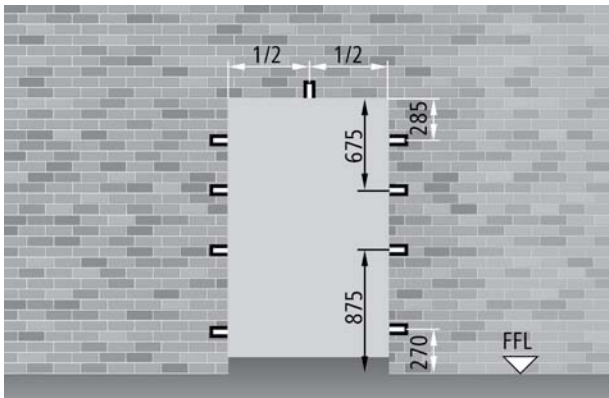
FM L = from 500 to 1340 x FM H = from 800 to 1749



FM L = from 500 to 1035 x FM H = from 1750 to 2200



FM L greater than 1036 and/or FM H greater than 2200

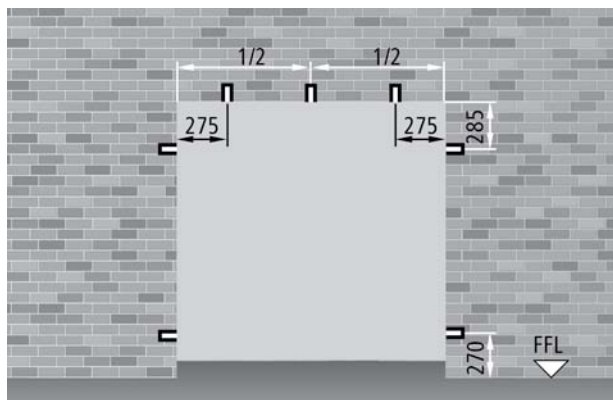


### NOTE

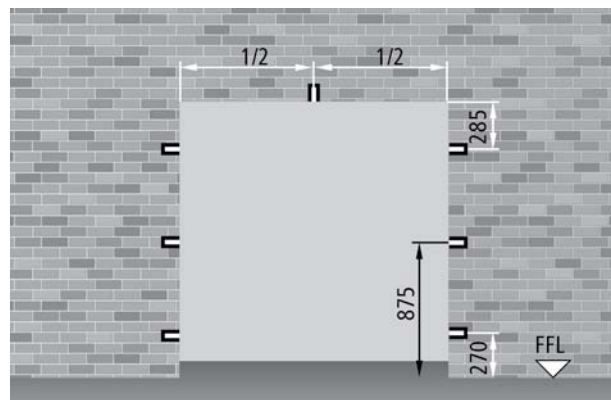
For proper installation, the cuts for the anchors should be 80 x 200 mm in size.

## Two-leaved doors

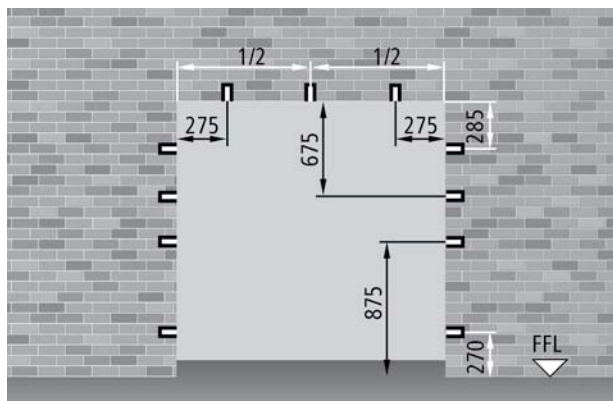
FM L = from 850 to 2660 x FM H = from 800 to 1749



FM L = from 850 to 2070 x FM H = from 1750 to 2200



FM L greater than 2070 and/or FM H greater than 2200



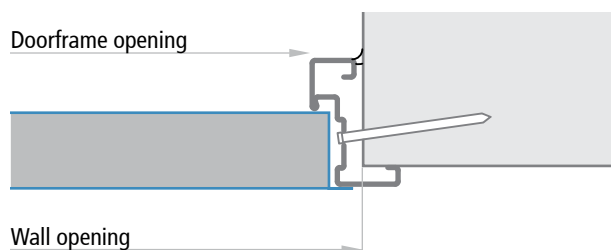
## INSTALLATION FOR EXPANSION SCREWS FIXING

Upon request, the Proget doors can be supplied with pre-drilled holes for the installation with expansion/wall screws. In this case, the doorframe will be supplied without anchors. For a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled with concrete mortar or polyurethane foam; the filling with polyurethane foam is mandatory in case of external use with C marking.



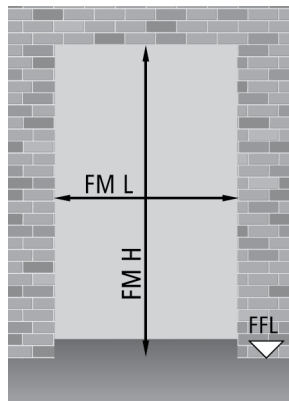
## WALL SCREWS

For direct wall installations or installation onto subframes, special expansion screws should be used without plugs. Please see the "door accessories" pages for more details.

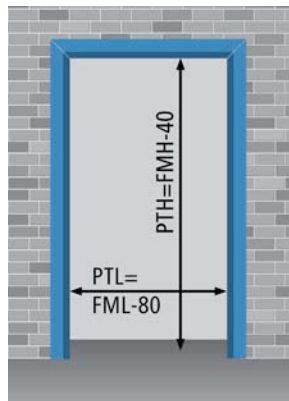


## ORDER MEASUREMENTS

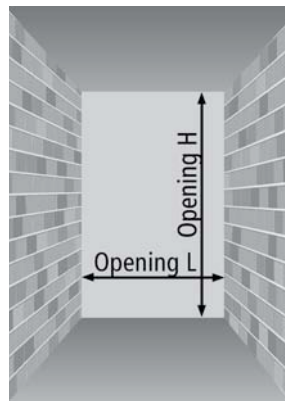
### Wall Opening



### Doorframe opening



### In the reveal application opening



#### One-leaved doors

Opening L = FM L + 80  
Opening H = FM H + 35

#### Two-leaved doors

Opening L = FM L + 70  
Opening H = FM H + 35

#### NOTE

The wall openings to be created for in the reveal application, do not correspond to the order measurement and therefore should follow the above specifications.

### One-leaved door FM L x FM H

### PT L x PT H (doorframe opening)

standard dimensions			frame on 3 sides			frame on 4 sides		
800	x	2000 / 2050 / 2100 / 2150 / 2200	720	x	1960 / 2010 / 2060 / 2110 / 2160	720	x	1940 / 1990 / 2040 / 2090 / 2140
900	x	2000 / 2050 / 2100 / 2150 / 2200	820	x	1960 / 2010 / 2060 / 2110 / 2160	820	x	1940 / 1990 / 2040 / 2090 / 2140
1000	x	2000 / 2050 / 2100 / 2150 / 2200	920	x	1960 / 2010 / 2060 / 2110 / 2160	920	x	1940 / 1990 / 2040 / 2090 / 2140
1100	x	2050 / 2100 / 2150 / 2200	1020	x	2010 / 2060 / 2110 / 2160	1020	x	1990 / 2040 / 2090 / 2140
1200	x	2050 / 2100 / 2150 / 2200	1120	x	2010 / 2060 / 2110 / 2160	1120	x	1940 / 1990 / 2040 / 2090 / 2140
1300	x	2000 / 2050 / 2100 / 2150 / 2200	1220	x	1960 / 2010 / 2060 / 2110 / 2160	1220	x	1990 / 2040 / 2090 / 2140
1340	x	2050 / 2100 / 2150 / 2200	1260	x	2010 / 2060 / 2110 / 2160	1260	x	1990 / 2040 / 2090 / 2140

#### semi-standard dimensions

from 500 to	995	x	2000 / 2050 / 2150	from 420 to	915	x	1960 / 2010 / 2110	from 420 to	1940 / 1990 / 2090
-------------	-----	---	--------------------	-------------	-----	---	--------------------	-------------	--------------------

#### non-standard dimensions

from 500 to	1340	x	from 1750 to 2670	from 420 to	1260	x	1710 / 2630	from 420 to	1690 / 2610
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# Order measurements - Handle height

## PROGET multipurpose doors



### Two-leaved doors FM L (L1+L2) x FM H

### PT L x PT H

#### standard dimensions

				doorframe opening		
1150	( 800 + 350)	x	2000 / 2050 / 2100 / 2150 / 2200	1070	x	1960 / 2010 / 2060 / 2110 / 2160
1200	( 800 + 400)	x	2000 / 2050 / 2100 / 2150 / 2200	1120	x	1960 / 2010 / 2060 / 2110 / 2160
1250	( 800 + 450)	x	2000 / 2050 / 2100 / 2150 / 2200	1170	x	1960 / 2010 / 2060 / 2110 / 2160
1250	( 900 + 350)	x	2000 / 2050 / 2100 / 2150 / 2200	1170	x	1960 / 2010 / 2060 / 2110 / 2160
1300	( 900 + 400)	x	2000 / 2050 / 2100 / 2150 / 2200	1220	x	1960 / 2010 / 2060 / 2110 / 2160
1350	( 900 + 450)	x	2000 / 2050 / 2100 / 2150 / 2200	1270	x	1960 / 2010 / 2060 / 2110 / 2160
1350	(1000 + 350)	x	2000 / 2050 / 2100 / 2150 / 2200	1270	x	1960 / 2010 / 2060 / 2110 / 2160
1400	(1000 + 400)	x	2000 / 2050 / 2100 / 2150 / 2200	1320	x	1960 / 2010 / 2060 / 2110 / 2160
1450	(1000 + 450)	x	2000 / 2050 / 2100 / 2150 / 2200	1370	x	1960 / 2010 / 2060 / 2110 / 2160
1600	( 800 + 800)	x	2000 / 2050 / 2100 / 2150 / 2200	1520	x	1960 / 2010 / 2060 / 2110 / 2160
1700	( 900 + 800)	x	2000 / 2050 / 2100 / 2150 / 2200	1620	x	1960 / 2010 / 2060 / 2110 / 2160
1800	( 900 + 900)	x	2000 / 2050 / 2100 / 2150 / 2200	1720	x	1960 / 2010 / 2060 / 2110 / 2160
1800	(1000 + 800)	x	2000 / 2050 / 2100 / 2150 / 2200	1720	x	1960 / 2010 / 2060 / 2110 / 2160
1900	(1000 + 900)	x	2000 / 2050 / 2100 / 2150 / 2200	1820	x	1960 / 2010 / 2060 / 2110 / 2160
2000	(1000 + 1000)	x	2000 / 2050 / 2100 / 2150 / 2200	1920	x	1960 / 2010 / 2060 / 2110 / 2160

#### semi-standard dimensions

from 850 ( 500 + 350) to 2000 (1000 + 1000) x 2000 / 2050 / 2150	from 810 to 1920	x	1960 / 2010 / 2110
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#### non-standard dimensions

from 850 ( 500 + 350) to 2660 (1330 + 1330) x from 1750 to 2670	from 770 to 2580	x	from 1710 to 2630
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#### NOTE

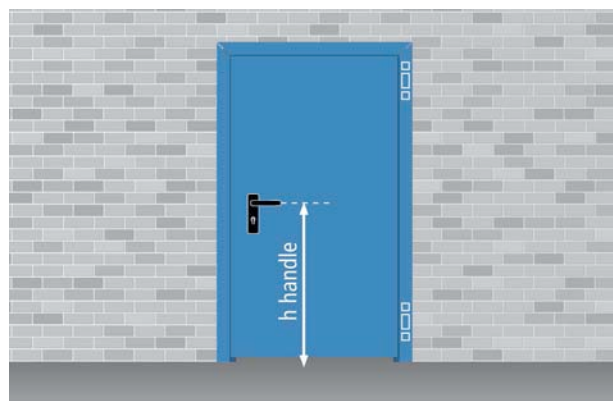
Doors leaves that are wider than they are tall are not permitted.

### HANDLE HEIGHT

#### One-leaved door

h = 1050 (FM H ≥ 1750)

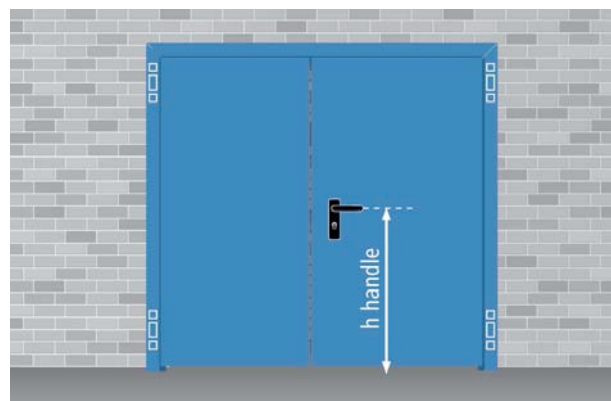
Different heights available upon request only



#### Two-leaved door

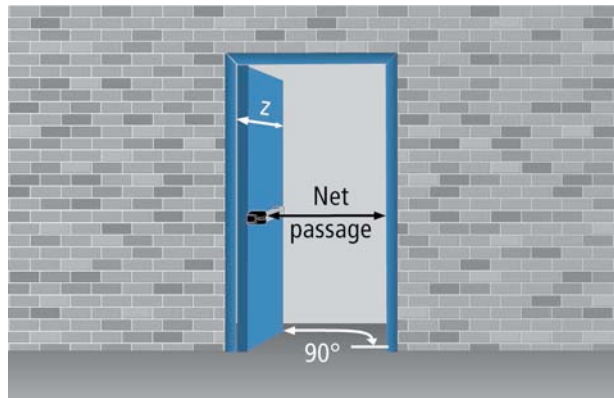
h = 1050 (FM H ≥ 1750)

Different heights available upon request only

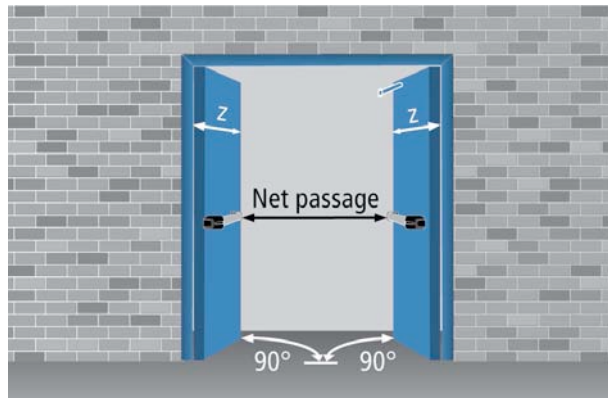


## OPENING MEASUREMENTS AND OVERALL DIMENSIONS WITH 90 DEGREE OPENING

### One-leaved doors with panic bar



### Two-leaved doors with panic bars



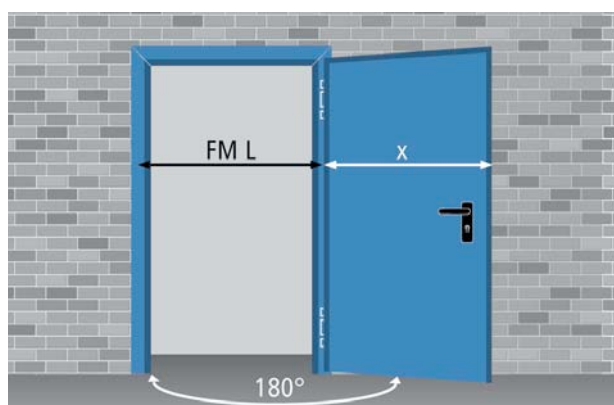
### Net passage calculation

panic bar type	protrusion	one-leaved door	two-leaved door
EXUS	125	FM L - 245	FM L - 410
TWIST	100	FM L - 220	FM L - 360
SLASH	75	FM L - 195	FM L - 310
FAST TOUCH	75	FM L - 195	FM L - 310
without panic bar	-	FM L - 120	FML - 160
z = leaf protrusion relative to the wall		FM L + 27	L1 + 35, L2 + 75

## OVERALL DIMENSIONS WITH 180 DEGREE OPENING

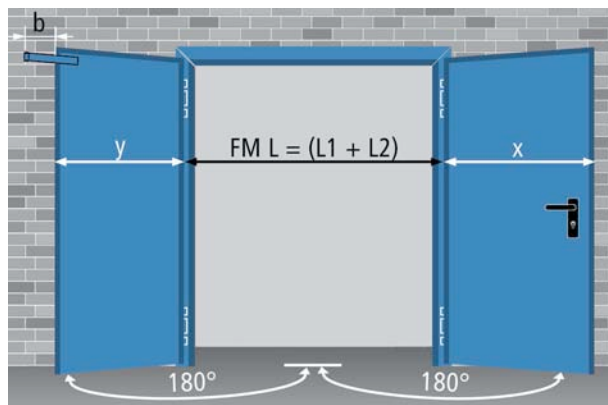
### One-leaved door

$$x = FM L - 7$$



### Two-leaved door

$$x = L1 + 1 \quad y = L2 + 42 \quad b = 130$$



**"the ideal finish for  
every type of surrounding"**



# MORE THAN FIREDOORS

## **Painting and NDD® decorations for metal doors**

PAINTING	98 - 99
NDD® - NINZ DIGITAL DECOR	100
DECORATION GROUPS	101
FEATURES	102
EXAMPLES	103

## Painting

This standard door is painted with thermoset powders, anti-scratch orange skin and semi-glossy finish (except for certain colors). The paint is particularly resistant and offers a pleasant finish for interior applications. Choose from a wide range of RAL colors.





### COLORS FOR INTERIOR USE WITHOUT PRICE SUPPLEMENT

Paint for interior use (group 01) with epoxy-polyester powders.

Standard colors (without any specification):  
turquoise pastel - lighter tone for the leaf (NCS4020-B50G)  
and darker for the frame (NCS5020-B50G).












Other RAL colors are available upon request (to be indicated in the order).























Group 01 - standard colors:		RAL colors upon request:			
leaf color NCS 4020-B50G		RAL 1013	RAL 5010	RAL 7016	RAL 7035
frame color NCS 5020-B50G		RAL 9010			

### COLORS FOR INTERIOR USE WITH PRICE SUPPLEMENT

Paint for interior use (groups 02 and 03) available in a variety of RAL colors with epoxy-polyester powders. Doors must be protected from atmospheric agents. Sunlight fades the colors.

Distinct from other RAL colours, metallic tinted paints RAL 9006, RAL 9007 (group 3) and RAL 9006 E (group 04) present a finish with a wrinkled structure that requires pre-approval of a sample.

Group 02:							
RAL 1015	RAL 5024	RAL 6000	RAL 7024	RAL 7038	RAL 8011	RAL 9001	RAL 9002
							
RAL 9011	RAL 9016	RAL 9018					
							

Group 03:							
RAL 1001	RAL 1003	RAL 3000	RAL 3003	RAL 3020	RAL 5012	RAL 5015	RAL 6005
							
RAL 7001	RAL 7004	RAL 7011	RAL 7030	RAL 7032	RAL 7037	RAL 7040	RAL 7042
							
RAL 7047	RAL 8017	RAL 8019	RAL 9005	RAL 9006*	RAL 9007*		
							

\*requires pre-approval of a sample.

## COLORS FOR EXTERIOR USE WITH PRICE SUPPLEMENTS

Paint for exterior use (group 04) with polyester powders in various RAL colours.

## COLORS ON REQUEST WITH PRICE SUPPLEMENTS

Paint available for interior and exterior use (group 05) with epoxy-polyester and polyester (respectively) powders in the requested RAL colours. Group 05 does not include special colors, such as metallic, mica, smooth or wrinkled texture and other sample colours like Pantone, NCS, etc.

## SPECIAL PAINTING ON REQUEST WITH PRICE SUPPLEMENTS

### Bacterial proof painting

Paint available for interior and exterior (group 06) with epoxy-polyester and polyester with silver ions additives. On surface painted with this particular treatment, germs are hindered to take root and proliferate, offering good resistance to routine cleaning. Particularly suitable for use on doors intended for health care facilities, food industries, schools and child care, etc.

### Graffiti proof painting

Paint for exterior (group 06) that allows, through a special solvent, to easily remove the graffiti. It provides long-lasting protection, allowing repeated cleanings without damaging the finish.

## PRECAUTIONS

### Installation













In case of exterior installation of the doors, in addition to use special paints which are especially designed for this kind of application (see groups 04 and 05), in order to avoid any product degradation, it is important to:

- protect the doors from bad weather and water seeping in;
- avoid direct sun rays and the subsequent warping of the door leaf, especially in case of darker colors.

For more details, refer to the "Notices" section of this brochure.

### Cleaning

Water and neutral soap are recommended for the regular cleaning of our products. Do not use common cleaning products (see detergents) and/or other solvents. We shall not be held responsible for any problems that arise if these guidelines are not respected.

Group 04:							
RAL	RAL	RAL	RAL	RAL	RAL	RAL	RAL
1013E	3000E	5010E	6005E	7016E	7024E	7035E	9002E
							
RAL	RAL	NCS	NCS				
9006E*	9010E	4020E	5020E				
							

\*requires pre-approval of a sample.

Group 05:							
Colors on request only							

Group 06:							
Colors on request only							

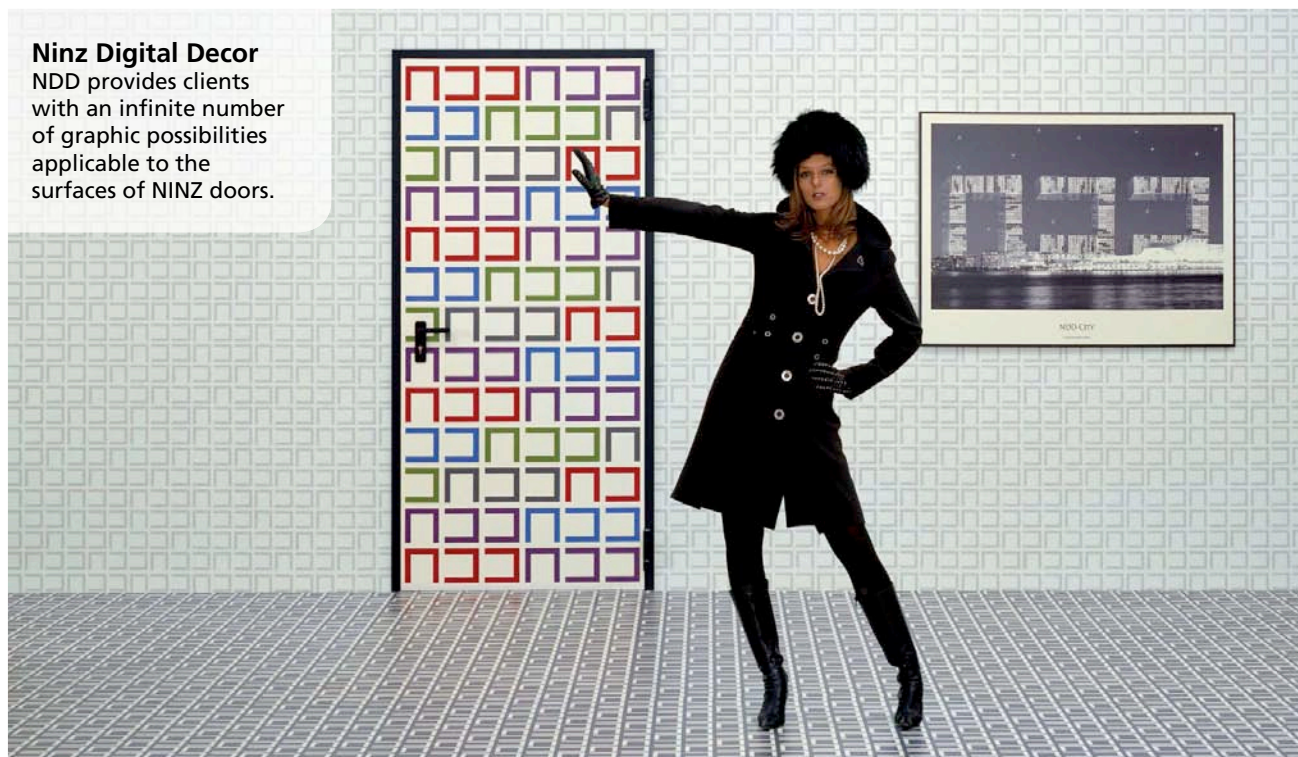
### Re-painting

- For re-painting, use the following procedure:
- sand and carefully wipe away any dust from the surfaces
- apply a base coat of semi-gloss acrylic (we recommend the product ACRILFIN SL series 567 made by ELCROM - Italy + 20% by weight aliphatic hardener series E872003)
- repaint the surfaces with your choice of lacquers or paints.

### Retouching

Upon request, the company Ninz also provides touch-up colors for the required RAL colour paint (nitro/synthetic) in 60 gr. handy bottle with brush cap or in 1,00 kg can.

**Ninz Digital Decor**  
NDD provides clients with an infinite number of graphic possibilities applicable to the surfaces of NINZ doors.



## DESCRIPTION

NDD - Ninz Digital Decor decorative painting. Graphic illustrations are applied directly to the flat surfaces of the door leaf after it has been painted with a base coat of polymerized powders. Painting with high-resolution digital print using special ink jets. The application of an additional layer of transparent coating ensures optimal protection of the decorative paint. Decorative NDD painting is available for the entire range of one- and two-leaved Rever, Univer and Proget doors.

**NDD® - Ninz Digital Decor introduces style and design to metal door products. Ninz doors can be directly printed with either your company's logo or designs, materials and symbols selected from a wide variety of NDD®, or also with your preferred artwork or customized images. NDD® introduces innovations to doors as an architectural entity; introducing NDD® can create added value on socio-cultural, economic and emotional dimensions.**

awarded with the  
**security&safety**  
award

The [www.ninz.it](http://www.ninz.it) website illustrates an infinity of continuously updated decorations that have been categorized into eight groups for rapid review. The groups are listed on the next page.

### Laboratory testing executed on NDD® samples

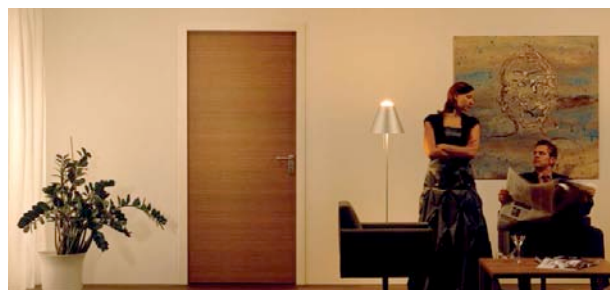
### result

500 h exposure test in salt fog	good performance, no sign of deterioration encountered
500 h humidity resistance test	good performance, no deterioration or loss of surface shine
500 h UVA radiation resistance test	good performance, no deterioration or loss of surface shine
Abrasion resistance test after 1000 cycles	the decoration was unaltered
Solvent resistance test	good performance, no deterioration in the decoration or the background paint

**ARTLINE** This group includes a wide selection of famous artworks drawn from ancient history up to the present day. These extraordinary designs endow the environment with a special atmosphere as an expression of style.



**WOOD** This set includes an endless variety of realistic imitations of classic, exotic, special and colored types of wood.



**FANTASY** NDD is a data bank of exclusive NINZ images and creations.



**STONES** This selection includes an endless variety of realistic imitations of marbles, granites and other stones.



**PATTERN** Contains an infinite number of NDD decorations and textures created on customer request and available and useable for a diverse variety of applications.



**PUBLICITY** Transforms Ninz doors into a publicity tool for the company and its products. Printing of the logo integrates the door into the company image. A variety of actual applications are reported here.



**PHOTOGRAPHS** This group contains original photos of country sides, objects, animals, environments, etc., with the appropriate foto resolution.



**SYMBOLS** Given the particular importance of this group, a special department has been created for workplace safety symbols, room description/labeling symbols, the simple numbering of rooms, etc.



## DECORATIONS FROM OUR DATABASE

Doors with decorative NDD painting are supplied with:

- doorframes in the proposed color
- door leaf rebate in the base color of the leaf itself
- hinges in the frame color
- accessories of the type and finishing according to the Ninz door price lists and brochures
- decoration covering the window frame and/or the central upright, require that these are covered with NDD decorated sheet metal

## SPECIAL DECORATIONS

New codes and pricing are required for customized decorations and decorations that employ colors not listed in this brochure. In such cases, customers may also be asked to indicate where logos and symbols should be positioned on the door leaf, via the following forms of support:

- **PC-GENERATED FILE** (logos, symbols, designs, etc.) in specialized "Illustrator" or "Freehand" format. Submit the file by e-mail or on a CD/DVD-ROM.
- **DIAPOSITIVE** with a 36 mm or 6 x 6 image of the picture uploaded to a PC using a scanner (professional scanner required). Submit the file (TIF, PDF or JPG format) in **maximum resolution** on CD/DVD-ROM.
- **PHOTOGRAPHIC IMAGE** made with a digital camera. Submit the file (TIF, PDF or JPG format) in **maximum resolution** on CD/DVD-ROM.

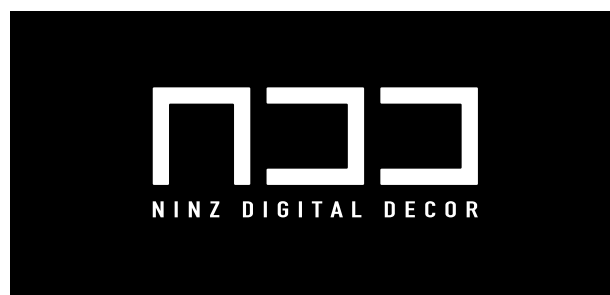
## PROTECTION FOR EXTERIORS

The exterior installation of NDD doors requires specific treatments for preventing the decorations from deteriorating over time. The cost supplement covers all door leaf surfaces except for the leaf rebate.

## WOODEN CRATE PACKAGING



The particularity and prestige of NDD decorations requires a special protection of the doors by packaging them in special wooden crates with an additional layer of external nylon wrapping. At the time of ordering, therefore, the additional cost for the wooden crate must be taken into consideration. Customers who opt for standard packaging on pallets must assume full responsibility in case of damage to the product.



# MORE THAN FIREDOORS

## EXAMPLE APPLICATIONS IN TYPICAL SURROUNDINGS

Airports - Train stations



Museums – Historical buildings



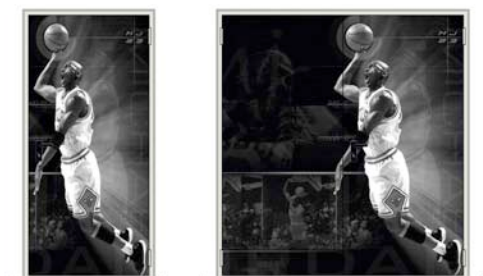
Commercial businesses



Hospitals – Nursing homes



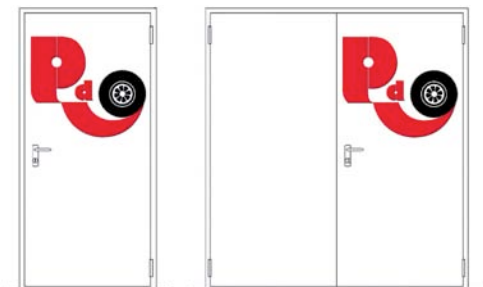
Sport centers – Stadiums



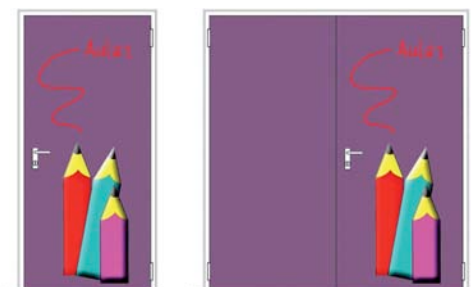
Parking lots



Logistic centers



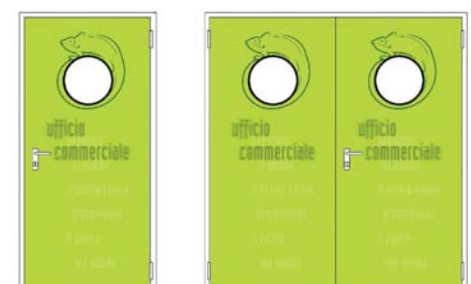
Schools - Universities



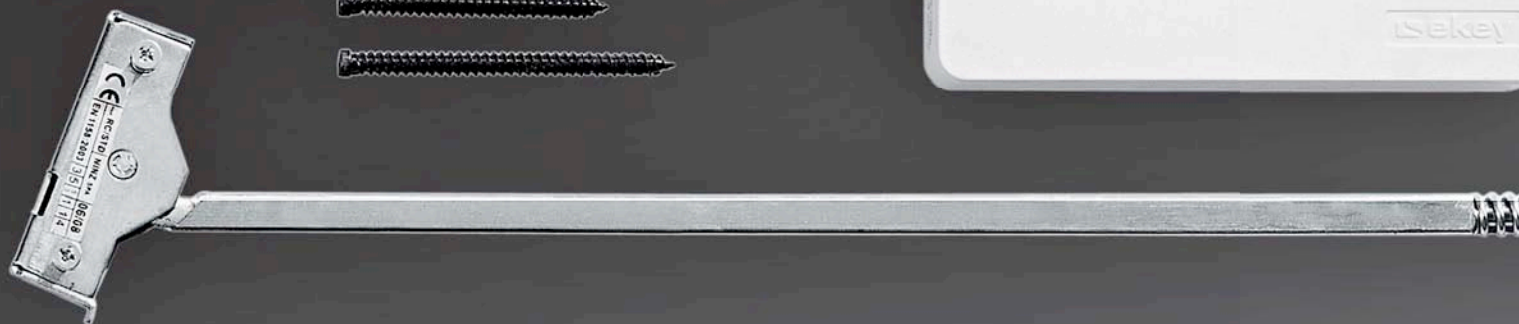
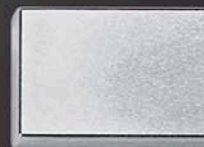
Hotels – Residences



Offices



**"quality accessories  
distinguish the door"**





## Optional accessories for NINZ doors

HANDLES	106 - 108
CYLINDERS	109 - 111
DOOR CLOSERS, CLOSING REGULATORS	112 - 115
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# Handles

Standard for REVER - UNIVER - PROGET doors

**NINZ**<sup>®</sup>  
FIREDOORS

## BLACK PLASTIC HANDLES

By default Rever, Univer and Proget doors include safety levers coupled with long plates with cylinder holes. Each handle set includes a patent key insert, a 9 x 9mm square spindle, fastener screws and spacers.

### M1 HANDLE

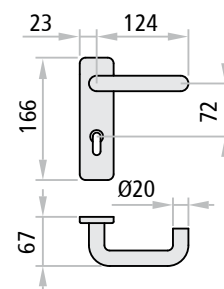
The M1-type handles are supplied as standard for fire-rated Univer, all Proget type doors and, on request, for all other types of NINZ doors.

M1 handles are fire rated consisting of a metal core inside the lever and a galvanized steel cover plate to protect the cylinder hole and have been certified in accordance with DIN 18273:1997-12.

The M1 handle package includes: a pair of black plastic lever with metal cores and galvanized steel installation plates, a pair of black plastic cover plates with patent-type cylinder hole adaptable for installation of Euro profile cylinders, a 125 mm long 9 x 9 square spindle, fastener screws and spacers. The package includes also the hexagonal key for setting of the hinges and fastening of the spring screw.



M1 plastic handle



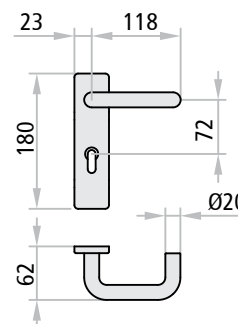
### M1R HANDLE

Multi-purpose Univer and Rever doors are equipped with M1R-type handles.

The M1R handle package includes: a pair of black plastic lever handles, a pair of black plastic cover plates with patent-type cylinder holes adaptable for installation of Euro profile cylinders, a 125 mm long 9 x 9 square spindle, fastener screws and spacers.



M1R plastic handle



# Handles

For locks with an inter-axis distance of 72 mm

## COLORED HANDLES

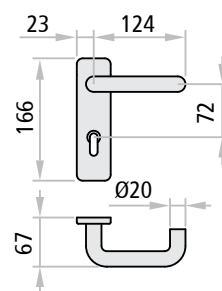
On request, painted resin handles can be provided which match or provide better contrast with the base color of the door.

M1C and M2C handles are fire rated like the M1 handle, and have also been certified in accordance with DIN 18273:1997-12.

The M1C and M2C handles package consist of: one pair of lever handles (M1C) or the handle/ doorknob combination (M2C) made of plastic with a metal core and galvanized steel installation plate, a pair of plastic cover plates with a Euro profile cylinder hole, a 9x9mm square spindle, fastener screws and spacers.



M1C handle colored RAL1023



### Colors available:

RAL	RAL	RAL	RAL	RAL
1023	7016	7035	9006*	9010

\*light aluminum

## STAINLESS STEEL HANDLES

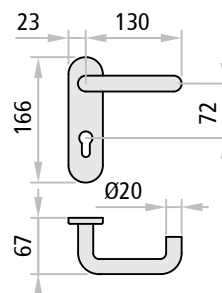
On request, brushed stainless steel AISI 304 levers and cover plates can be provided which endow the product with a higher quality while at the same time ensuring optimal corrosion resistance and a noteworthy robustness of the entire set.

In addition, M1X, M2X, M11X and M20X handles are equipped with a return spring that maintains perfect alignment with the geometry of the door.

They are mounted on a galvanized steel mechanism and are supplied with fastener screws, spacers and a 9x9mm square spindle (where required).



M1 stainless steel handle



### NOTE

Euro profile cylinder to be ordered separately (except for M11X and M20X handles).

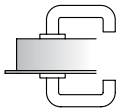
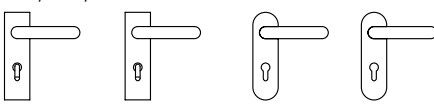
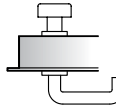
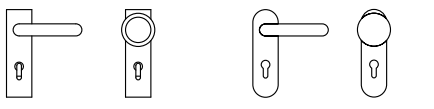
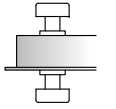
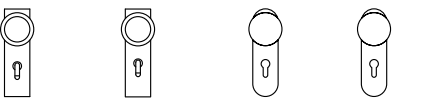
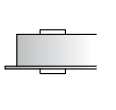
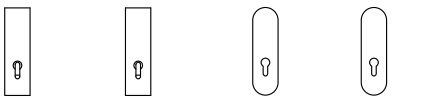
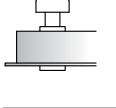
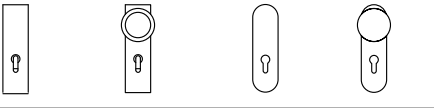
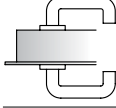
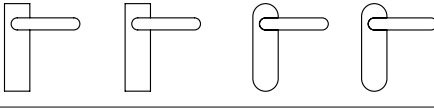
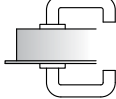
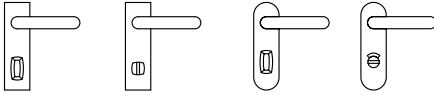
Only M1C, M1X and M11X models are combinable with the three point locking mechanism.

# Handles

For locks with an inter-axis distance of 72 mm

## HANDLES

Rever, Univer and Proget doors may be equipped on request with handles with special functions other than those provided by standard handles.

Versions			description	functioning	use
	M1, M1R, M1C		handle/handle combination with cylinder hole on both sides. For combination with lock with an inter-axis distance of 72 mm (015)	door opening by handle or key from both sides	applications in which both door opening directions are accessible without key
	M2, M2C		handle/doorknob combination with cylinder hole on both sides. For combination with lock with an inter-axis distance of 72 mm (015)	the doorknob side requires the key for opening	applications in which only one of the door opening directions is accessible with a key
	M4		doorknob/doorknob combination with cylinder hole on both sides. For combination with lock with an inter-axis distance of 72 mm (015)	both sides require the key for opening. The doorknobs serve for pushing or pulling the door	applications in which both door opening directions are accessible by key only
	M5		plate/plate combination with cylinder hole on both sides. For combination with lock with an inter-axis distance of 72 mm (015)	both sides require the key for opening	applications in technical rooms with doors that usually remain closed and require key for opening
	M9		doorknob/plate combination with cylinder hole on both sides. For combination with lock with an inter-axis distance of 72 mm (015)	both sides require the key for opening. The doorknob serves for pulling the door	applications in which both door opening directions are accessible by key only
	M11		handle/handle combination without cylinder hole. For combination with lock with an inter-axis distance of 72 mm (015)	opening is possible at any time using the handle	applications in which the door never needs to be locked
	M20		handle/handle and thumbturn latch combination for interior closure. For combination with lock with star-shaped spindles only (Stel 15)	closure using thumbturn latch from inside. Emergency opening from outside with screwdriver	typical closure for bathroom doors

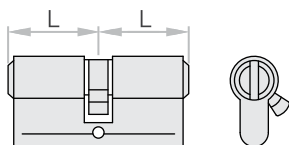
### NOTE

For stainless steel handle the Euro profile cylinder must be ordered separately (except for M11X and M20X handles). Only M1, M1C, M1X, M11 and M11X models are combinable with the three point locking mechanism.

## CYLINDERS

On request Rever, Univer and Proget doors with standard locks (Std 015), MAC2 system control access locks or three-point locking mechanisms (3vie PRO) may be supplied with a Euro profile cylinder with three keys. They may also be provided in unique coding or group coded versions, or in combination with unique or group mastering.

### Cylinders for handles



Nickel-plated cylinder equipped with 3 keys

#### Versions available

standard cylinder
single coded cylinder
group coded cylinder
sample key coded cylinder
single mastered cylinder
group mastered cylinder



#### Lengths available

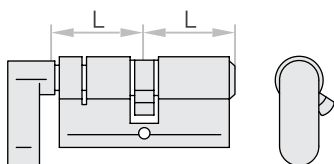
#### for door leaf thickness

40/40	60 mm
35/35	50 mm
30/30	40 mm

### ATTENTION

It is important to specify MAC lock combinations in the order.

### Cylinders with thumbturn latch



Nickel-plated cylinder with chrome-plated thumbturn latch equipped with 3 keys

#### Versions available

standard cylinder with thumbturn latch
group coded cylinder with thumbturn latch
sample key coded cylinder with thumbturn latch
single mastered cylinder with thumbturn latch
group mastered cylinder with thumbturn latch
mastered and emergency cylinder with thumbturn latch



#### Lengths available

#### for door leaf thickness

40/40	60 mm
35/35	50 mm
30/30	40 mm

### NOTE

Cylinders to be combined with locks of NINZ doors must meet DIN 18254 standards.

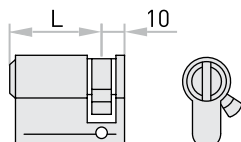
Main, master and/or emergency key (or keys) should be ordered separately - they are not included with the cylinder.

## CYLINDERS FOR PANIC BARS AND MSC HANDLES

Standard panic bars are supplied with a Euro profile cylinder with three keys.

Cylinders with single coding, grouped coding or in combination with single or grouped mastering.

### Cylinders to be combined with MSC handle and panic bars (except EXUS DC)



Nickel-plated cylinder equipped with 3 keys

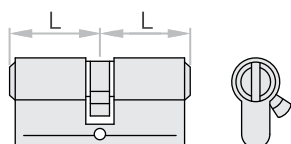
#### Versions available

standard half cylinder
single coded half cylinder
group coded half cylinder
sample key coded half cylinder
single mastered half cylinder
group mastered half cylinder

#### ATTENTION

It is important to specify MAC lock combinations in the order.

### Cylinders to be combined with EXUS DC panic bars



Nickel-plated cylinder equipped with 3 keys.

#### Versions available

standard cylinder
single coded cylinder
group coded cylinder
sample key coded cylinder
single mastered cylinder
group mastered cylinder

#### NOTE

Cylinders to be combined with the locks of NINZ doors must meet DIN 18254 standards.

Main, master and/or emergency key (or keys) should be ordered separately - they are not included with the cylinder.



#### Lengths available

#### for door leaf thickness

40/10	60 mm
35/10	50 mm
30/10	40 mm



#### Lengths available

#### for door leaf thickness

45/40	60 mm
40/40	50 mm
35/35	40 mm

## CONFIGURED AS NEEDED!

NINZ asks its partners to specify the system in the form of a key plan which, when prepared with care, serves as a map for optimizing the required intervention times (from order to installation) while ensuring that the mastering system meets the specific needs being requested.

Here are a few of the configurations that are available:

### 1) Standard

Cylinders with different keys.

### 2) Single coded

Cylinders with the same keys.

### 3) Grouped coded

Cylinders from the same group are coded alike.

### 4) Main/master key systems

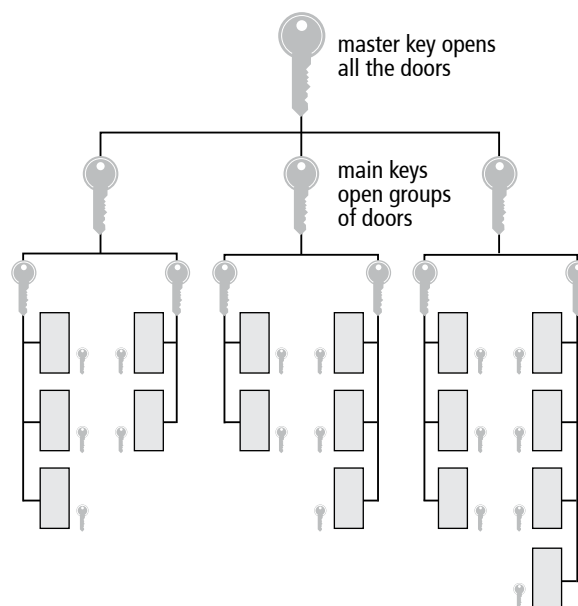
Grouped master key system in which each cylinder can be opened with its own key or with a master key that can open cylinders from one group but not others; a general master key can open all cylinders from all different groups. Standard cylinders closed from the interior with a thumb-turn latch cannot be opened with the main/master key.

### 5) Frictioned emergency

"Frictioned cylinder" means that the main or master key can only open doors that have not been closed from inside, while the same doors can still be opened with the emergency key.

### 6) Encrypted with sample key

Sample key coding allows for cylinders to be coded on the basis of a sample key supplied by the customer.



Key plan example for master key systems.

## KEYS

The order should specify the number of keys to be supplied with the mastered cylinders.

### Versions available

normal key	opens the single door only
main key	opens all doors from the same group
master key	opens all the doors that have grouped mastering
emergency key	opens all doors



Key

## DOOR CLOSER

The door closer regulates the closure of the door so that the door leaf returns properly to its final closed position after being released. Regulation is influenced by closure force, speed and the final impact.

Although Univer and Proget doors are equipped with spring hinges for automatic closure, the installation of door closers is recommended for wide and/or heavy doors and/or in the presence of windows on the leaf.

The door closer product is addressed by EU directive 89/106/CEE, which means it is subject to **CE** marking.

### CP1 with scissor arm

**CE** marked in conformity with EN 1154.

Rever, Univer and Proget doors are available, on request, with an overhead CP1 door closer with a silver-colored scissor arm.

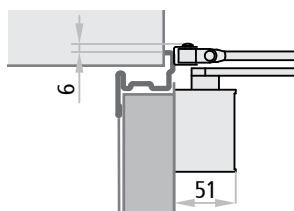
The silver-colored CP1-G door closer is available for Proget doors, for installation on the push side of the door.

The CP1/CP1-G can be used for fire rated doors and is classified for 180° closure with a force varying from 3 to 4.

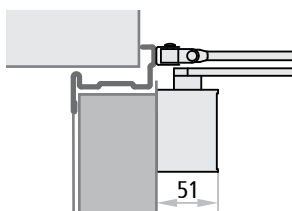
Proget doors ordered with CP1 are provided with pre-drilled installation holes on the door leaf and the frame. Standard Univer and Proget doors include internal reinforcements for the CP1 application.

#### NOTE

Arm protrusion = 290 mm



CP1 REVER

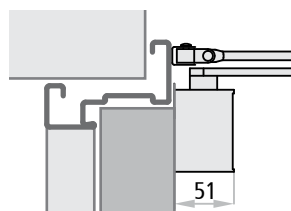


CP1 UNIVER

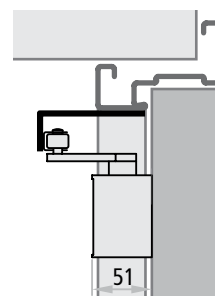


#### Optional colors (except CP1-G):

dark bronze RAL 9016 RAL 9005



CP1 PROGET (from pull side)



CP1-G PROGET (from push side)

### CP2 with slide channel

**CE** marked in conformity with EN 1154.

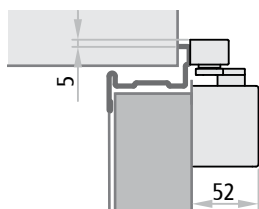
On request Rever, Univer and Proget doors are available with an overhead CP2 door closer with slide channel. Relative to the CP1, the advantage of this system is the absence of a protruding of scissor arm.

The CP2 is suited for use on fire rated doors and has been classified for 180° closure with force level 4.

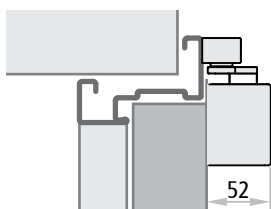
The silver-colored CP2-G door closer is available for Proget doors, for installation on the push side of the door, with force level 3.

Minimum wall opening width of 1200 mm for two leaved doors with two CP2/CP2-G applied.

Proget doors ordered with CP2 are provided with pre-drilled installation holes on the door leaf and the frame. Standard Univer and Proget doors include internal reinforcements for the CP2 application.



CP2 UNIVER

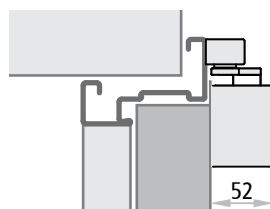


CP2 PROGET

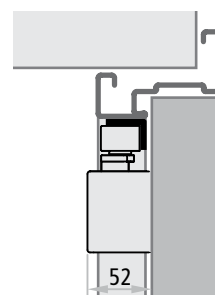


#### Optional colors (except CP2-G):

dark bronze RAL 9016 RAL 9005



CP2 PROGET (from pull side)



CP2-G PROGET (from push side)

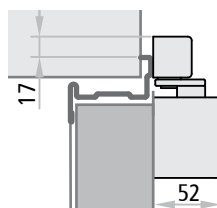
## CP2-EMF with slide channel and electro-mechanical hold open device

CE marked in conformity with EN 1154 and EN 1155.

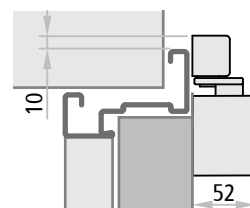
The CP2-EMF differs from the CP2 in that it has an electro-mechanical hold-open device that allows the door leaf to be locked at an angle ranging from 80° to 120°. During alarms or power outages, the hold-open device is unlocked and the door is closed by the door closer.

The CP2-EMF can be used on fire doors and has a maximum opening range of 120°, with a closing force set at 4. Minimum wall opening width of 1200 mm for two leaved doors with two CP2-EMF applied.

Proget doors ordered with CP2-EMF are provided with pre-drilled installation holes on the door leaf and the frame. Standard Univer and Proget doors include internal reinforcements for the CP2-EMF application.



CP2 EMF UNIVER



CP2 EMF PROGET

Model	maximum opening in the absence of obstacles			power supply	absorption	CE certification	standard
	one-leaved door	active leaf	inactive leaf				
CP1 - CP1-G	180°	180°	180°	-	-	0432-BPR-0054	EN 1154
CP2	175°	175°	175°	-	-	0432-BPR-0051	EN 1154
CP2-G	120°	120°	120°	-	-	0432-BPR-0051	EN 1154
CP2-EMF	120°	120°	120°	24V DC	58,3 mA	0432-BPR-0051 0432-BPR-0025	EN 1154 EN 1155
CP2-EMF-V	120°	120°	120°	48V DC	45,8 mA	0432-BPR-0051 0432-BPR-0025	EN 1154 EN 1155

### NOTE

For the automatic closing of doors exposed to strong winds, the use of a door closer with a higher closing force is recommended.

# Closing regulators

For UNIVER - PROGET fire doors

## CLOSING REGULATOR

Closing regulators administer the closure of two-leaved doors so that the inactive leaf is overlaid on the active leaf upon final closure. This is why it is mandatory to apply closing regulators to all two-leaved fire doors.

### RC/STD

CE marked in conformity with EN 1158.

The RC/STD closing regulator device is distinct from the door closer and is a standard element of all Univer and Proget two-leaved fire doors.

In Proget doors the closing regulator is inserted into the upper horizontal groove of the frame, while in Univer doors it is supplied separately with an anchoring rod to be installed on site. In comparison with other regulators which are separate from the door closer, the advantage of the RC/STD regulator is that it is not visible when the door is closed.

The RC/STD regulator is suited for use on fire doors and is classified for forces ranging from 3 to 5.

### ATTENTION

In case of two-leaved Proget fire-rated doors with environmental characteristics it is mandatory to apply the RC2 closing regulator (to be ordered separately) instead of the RC/STD.

### RC2 system

CE marked in conformity with EN 1154 and EN 1158.

The self-closing RC2 system for the self closing of two-leaved doors incorporate two CP2 with force EN 4 with a slide channel and a regulator integrated in the upper sliding guide. The entire system is silver colored.

The silver-colored RC2-G system is available for Proget doors, for installation on the push side of the door, with force EN 3.

Proget fire doors with environmental characteristics must be ordered endowed with the RC2 system.

On request, two-leaved Univer and Proget doors are available with an RC2 regulator instead of the RC/STD.

### The RC2/RC2-G system presents clear advantages:

- no protruding door-closer arms
- regulator concealed in the upper guide (even when the door is open)
- controlled closure of both leaves

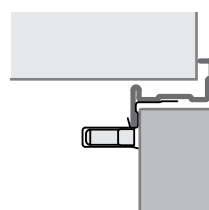
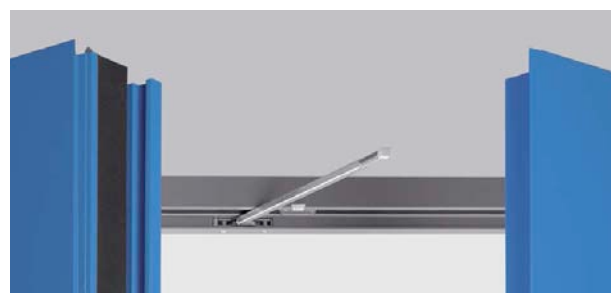
The RC2 regulator is suited for use on fire doors and is classified for both door closers with force EN 4; the RC2-G regulator is suited for use on Proget fire doors (installation from pull side) and is classified for both door closers with force EN 3.

Minimum wall opening width: 1200 mm for the RC2; 1500 mm for the RC2-G. Minimum inactive leaf width: 370 mm for the RC2; 600 mm for the RC2-G.

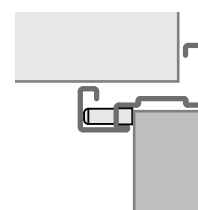
Proget doors ordered with RC2 are provided with pre-drilled holes for the installation of two CP2 door closers on the leaves and the slide channel on the frame. The installation holes in Univer doors need to be drilled on site for anchoring to the internal reinforcement of the leaves.

### There are two systems for applying it to the door:

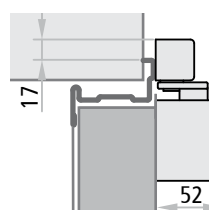
- separated from the self-closing system of the spring hinge or the door closer
  - incorporated into the closure system of the door closer
- Closing regulators are addressed by EU directive 89/106/CEE, which means they are subject to CE marking.



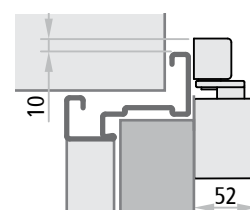
UNIVER



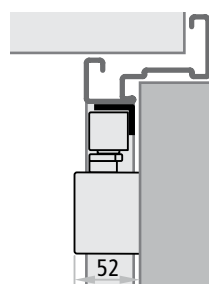
PROGET



RC2 UNIVER



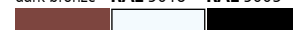
RC2 PROGET (from pull side)



RC2-G PROGET (from push side)

### Optional colors (except RC2-G):

dark bronze RAL 9016 RAL 9005



# Closing regulators

For UNIVER - PROGET fire doors

## RC2-EMF1 system

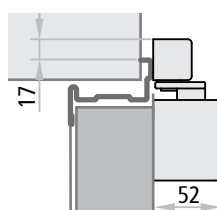
CE marked in conformity with EN 1154, EN 1158 and EN 1155. The RC2-EMF1 system differs from the RC2 in that it has an electro-mechanical hold-open device that allows the door leaf to be locked at an angle ranging from approx. 80° to 130°. The active leaf is held open by the closing regulator system. During alarms or power outages, the hold-open system is unlocked and the door is closed by the door closer. The entire system is provided in the standard silver color.

### The RC2-EMF1 system presents multiple advantages:

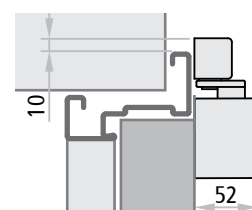
- possibility of holding the leaves open in the desired position
- no visible magnets
- no protruding door closer arms
- regulator concealed in the upper guide (even when the door is open)
- controlled closure of both leaves

The RC2-EMF1 system is suited for use on fire rated doors and is classified for both door closers with force level EN 4. Minimum wall opening width of 1200 mm and minimum of 370 mm for the inactive leaf.

Proget doors ordered with RC2-EMF1 are provided with pre-drilled installation holes on the door leaf and the frame. The Univer door series includes internal reinforcements for application of the two door closers.



RC2-EMF1 UNIVER



RC2-EMF1 PROGET

Model	maximum opening in the absence of obstacles			absorption	CE certification	standard
	active leaf	inactive leaf	power supply			
RC/STD	180°	180°	-	-	0425-ICIM-1153	EN 1158
RC2	175°	175°	-	-	0432-BPR-0051	EN 1154
					0432-BPR-0026	EN 1158
RC2-G	120°	120°	-	-	0432-BPR-0051	EN 1154
					0432-BPR-0026	EN 1158
RC2-EMF1	175°	130°	24V DC	58,3 mA	0432-BPR-0051	EN 1154
					0432-BPR-0025	EN 1155
					0432-BPR-0026	EN 1158
RC2-EMF1-V	175°	130°	48V DC	45,8 mA	0432-BPR-0051	EN 1154
					0432-BPR-0025	EN 1155
					0432-BPR-0026	EN 1158

## NOTE

For the automatic closing of doors exposed to strong winds, the use of a door closer with a higher closing force is recommended.

# Automatic door sweep

For NINZ doors

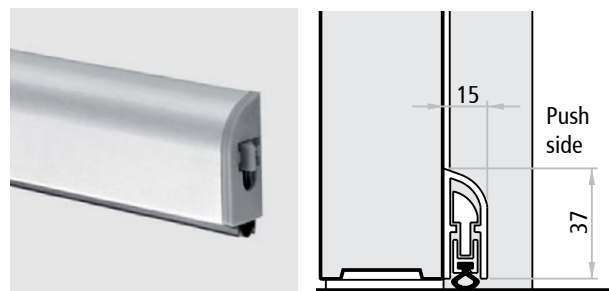


## AUTOMATIC DOOR SWEEP

On request, Rever, Univer and Proget doors are available with an automatic door sweep to prevent air drafts from entering through the crack between the leaf and the floor. It complements the FF sealing applied to the frame to provide better acoustic insulation and better air sealing for the door.

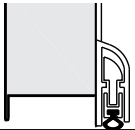
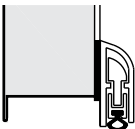
It is applied on the push side by using screws to attach it directly to the sheet metal of the door, after which the mechanism is completely covered with an anodized aluminum profile. On request, it can also be provided in the same color as the door leaf.

It is applied on site following door installation so that it can be adjusted to the actual leaf height.

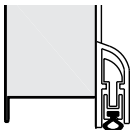
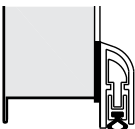


## FIELDS OF APPLICATION FOR THE AUTOMATIC DOOR SWEEP

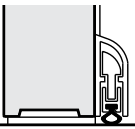
### REVER and UNIVER multipurpose doors

	FM L one-leaved door	L1 active leaf	L2 inactive leaf with 30x4mm profile	seals to be used
 1 leaf/active	from 500 to 513 mm	from 500 to 521 mm	from 400 to 431 mm	L 430 mm
	from 514 to 613 mm	from 522 to 621 mm	from 432 to 531 mm	L 530 mm
	from 614 to 713 mm	from 622 to 721 mm	from 532 to 631 mm	L 630 mm
	from 714 to 813 mm	from 722 to 821 mm	from 632 to 731 mm	L 730 mm
	from 814 to 913 mm	from 822 to 921 mm	from 732 to 831 mm	L 830 mm
 inactive leaf with 30x4mm profile	from 914 to 1013 mm	from 922 to 1000 mm	from 832 to 931 mm	L 930 mm
	from 1014 to 1113 mm		from 932 to 1000 mm	L 1030 mm
	from 1114 to 1213 mm			L 1130 mm
	from 1214 to 1313 mm			L 1230 mm
	from 1314 to 1350 mm			L 1330 mm

### UNIVER fire doors

	FM L one-leaved door	L1 active leaf	L2 inactive leaf with 30x4mm profile	seals to be used
 1 leaf/active	from 500 to 513 mm	from 500 to 513 mm	from 400 to 444 mm	L 430 mm
	from 514 to 613 mm	from 514 to 613 mm	from 445 to 544 mm	L 530 mm
	from 614 to 713 mm	from 614 to 713 mm	from 545 to 644 mm	L 630 mm
	from 714 to 813 mm	from 714 to 813 mm	from 645 to 744 mm	L 730 mm
	from 814 to 913 mm	from 814 to 913 mm	from 745 to 844 mm	L 830 mm
 inactive leaf with 30x4mm profile	from 914 to 1013 mm	from 914 to 1000 mm	from 845 to 944 mm	L 930 mm
	from 1014 to 1113 mm		from 945 to 1000 mm	L 1030 mm
	from 1114 to 1213 mm			L 1130 mm
	from 1214 to 1313 mm			L 1230 mm
	from 1314 to 1350 mm			L 1330 mm

### PROGET fire and multipurpose doors

	FM L one-leaved door	L1 active leaf	L2 inactive leaf	seals to be used
 1 leaf/active or inactive	from 500 to 520 mm	from 500 to 520 mm	from 350 to 435 mm	L 430 mm
	from 521 to 620 mm	from 521 to 620 mm	from 436 to 535 mm	L 530 mm
	from 621 to 720 mm	from 621 to 720 mm	from 536 to 635 mm	L 630 mm
	from 721 to 820 mm	from 721 to 820 mm	from 636 to 735 mm	L 730 mm
	from 821 to 920 mm	from 821 to 920 mm	from 736 to 835 mm	L 830 mm
	from 921 to 1020 mm	from 921 to 1020 mm	from 836 to 935 mm	L 930 mm
	from 1021 to 1120 mm	from 1021 to 1120 mm	from 936 to 1035 mm	L 1030 mm
	from 1121 to 1220 mm	from 1121 to 1220 mm	from 1036 to 1135 mm	L 1130 mm
	from 1221 to 1320 mm	from 1221 to 1320 mm	from 1136 to 1235 mm	L 1230 mm
	from 1321 to 1340 mm	from 1321 to 1330 mm	from 1236 to 1330 mm	L 1330 mm

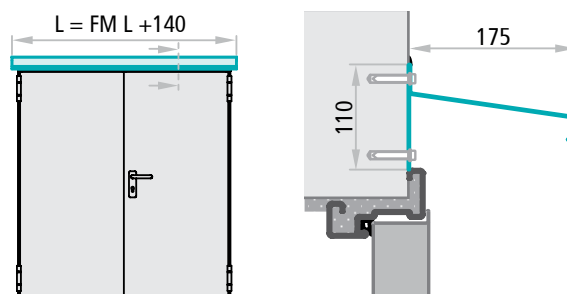
## ROOFING

Upon request for Univer and Proget doors, to be ordered together with the door.

Conceived for exterior use of metallic doors, the roofing protects against infiltration of rain from above between the door edge and the rebate of the frame. The small protrusion and RAL painting for exterior use in the same color of the frame complete the design of the door.

To be applied onto the wall, in contact with transom.

Made out of galvanized sheet metal with thickness 10/10 mm, painted with RAL for exterior use (in the frame color), complete with holes for fixing to the wall (screws and plugs excluded). Available for doors with FM L from 500 to 2660 mm (supplied in two elements for FM L > 2360 mm).



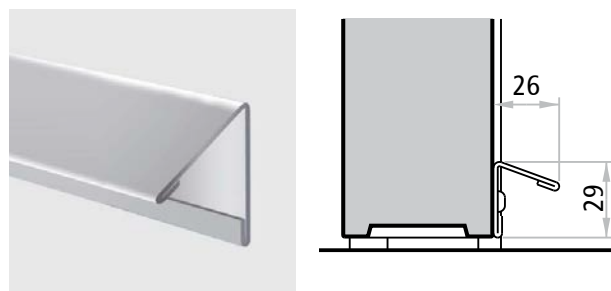
### ATTENTION

The roofing performs the function of a barrier against vertical rain limited to the upper part of the door. Therefore the roofing does not protect any eventual window or ventilation louvers on the door, so for these cases provide canopies or awnings for a complete protection of the product.

## DRIP-STEEL PROFILE

On request for Univer and Proget one-leaved doors. Normally used to prevent condensation from dripping down the door leaf and puddling beneath the door. The profile is made of "Sendzimir" processed galvanized sheet metal painted the color of the door leaf.

It is applied usually on the push side of the leaf on site after being cut to measure, to be attached with the screws provided.



Lengths available	FM L door leaf
828 mm	to 800 mm
928 mm	to 900 mm
1028 mm	to 1000 mm
1378 mm	to 1350 mm

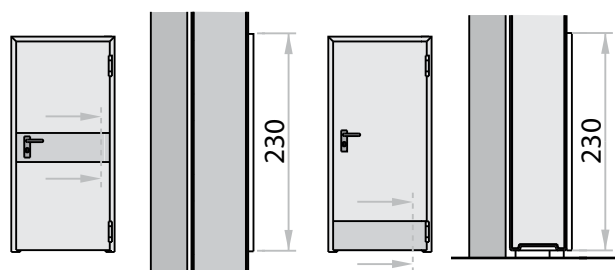
## PROTECTIVE PLATES AND KICKPLATES

On request for 1 and 2 leaf Univer and Proget doors, specifying the side of application (pull or push).

Their main function is to protect the parts of the door that are vulnerable to being scraped by carts, hospital beds, etc.

They are made of AISI 304 brushed stainless steel sheet metal with a standard height of 230 mm.

For on-site attachment with two-sided adhesive factory applied on the back, at the bottom of the door (kick plate) or at handle height (protective plate).



Protection plates

Kick plates



Holes are factory prepared for the passage of the handle panel and cylinder



Example of application on the push side

# Wall screws - Subframe

For NINZ doors

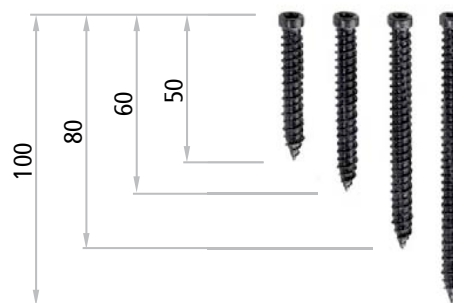


## WALL SCREWS FOR FASTENING WITHOUT PLUGS

Field of use: installation of Proget insulated or multipurpose doorframes to the wall or subframe using screws but no plugs. Designed for installation into concrete, full bricks, half-full bricks, lightened cement and other materials.

**Advantages:** saves time and money thanks to direct attachment of the frame to the wall, with no need to enlarge the holes for plugs. Thanks to the black galvanization, the screws blend in smoothly with the FC sealing.

Dimensions	description
Ø 7,5 x 50 mm	for attachment to metal subframes
Ø 7,5 x 60 mm	for attachment to concrete and especially thick walls
Ø 7,5 x 80 mm	for attachment to walls of average thickness
Ø 7,5 x 100 mm	for attachment to walls of lower thickness



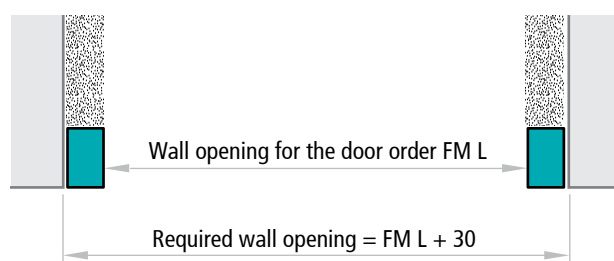
### NOTE

Holes should be drilled using a Ø6mm stone drill bit.

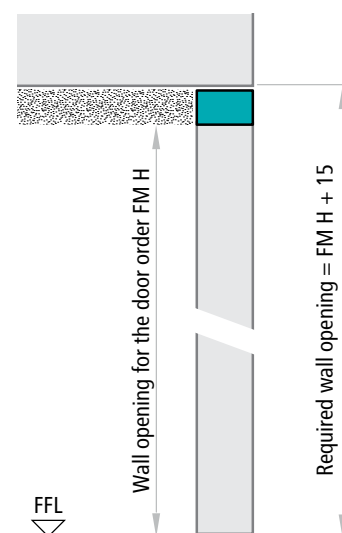
## SUBFRAME

Subframe made of 30x15x1,5mm hollow section profiles, derived from hot-galvanized steel coil, endowed with anchors for mortar fixing and removable spacers for the final installation.

To be ordered separately (mandatory for REI 60 and REI 120 Proget doors with installation onto subframe with screws).



Horizontal cross section



Vertical cross section

# MAC® Multifunctional Access Control

## Controlled opening system



Installation on the door of MAC and MAC FAILSAFE systems allows to control access by electric impulse. The particularity of the MAC and MAC FAILSAFE system is to integrate all command and control functions in the lock, which simplifies the electrical works required on site.

### Differences between MAC and MAC FAILSAFE systems:

- the MAC systems, in the event of a power failure, allow the opening only via key or panic/emergency exit device. Thus MAC systems are recommended in situations where the door shall remain closed, even in case of power failure.
- the MAC FAILSAFE systems guarantee access in the situation of power failure. Thus MAC FAILSAFE systems are recommended in situations where free passage must be assured, even in case of power failure.

### The MAC system offers multiple advantages, such as:

- possibility of 12 or 24V AC/DC power supplies, which avoids problems due to inadequate voltage
- low current absorption:
  - at 12V the startup current is 500mA for the first 5-6 sec., before changing to a 250mA maintenance current
  - at 24V the startup current is 1A for 300 millisec., before settling to 500mA for 4-5 sec. and finally changing to a 250mA maintenance current for the remaining 25 sec.
- timer incorporated, time set at 30 sec., eliminating the need for external timers. Further, in case of delivery with the door with automatic reset function (reset of the timer) for every door opening
- red/green LED on the cover plate to prevent useless forcing of the handle by signaling whether the opening system is active or not
- possibility of continuous handle activation (always open when desired)
- ready for the connection of an optional remote LED (not supplied) for remote signaling of lock activation/deactivation
- guaranteed access in case of power failure (only for FAILSAFE version)

The MAC and MAC FAILSAFE systems can be delivered installed onto the door with internal wiring through the leaf and electrical contacts between the leaf and the door-frame. The KIT includes a flexible cable sleeve and the electrical cables are to be installed externally.

### NOTE

Before the installation of doors with MAC locks it is necessary to prepare the power supply (active door leaf side in case of double leaved doors) at a height of approx. 800mm from the finished floor level and in proximity of the wall angle, where the door frame will be mounted. The power wires must have a section of 0,75-1,0mm<sup>2</sup> and must be flexible.



Plastic handle with LEDs



Stainless steel handle with LEDs



Double electrical contacts between leaf and doorframe

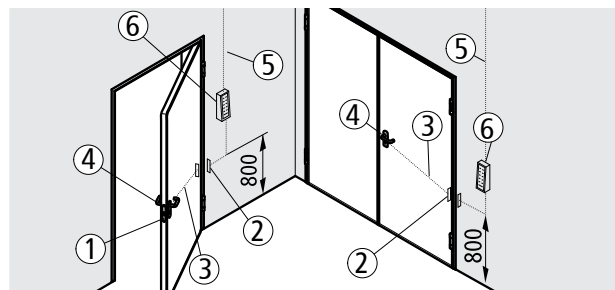


Diagram of components

*Delivery together with the door features these installed accessories: lock with solenoid and electronic chip with timer incorporated (1), double electrical contacts between leaf and frame (2), internal wiring inside the leaf (3); supplied to be installed: handle and cover plate with red/green LED and connectors (4). Not included: power supply for doorframe contacts (5), opening button and command accessories (6).*

*Unlike the delivery together with the door, the KIT (supplied separately from the door) offers a flexible cable sleeve between the door leaf and the power supply instead of the double electrical contacts. In case of a handle the installation of a cable duct onto the door leaf (not supplied) is necessary for the power supply.*

## MAC1 AND MAC1 FAILSAFE SYSTEM

### Door opening in case of power failure (LED off)

- MAC1: from pull side only by key; from push side by panic bar or emergency handle.
- MAC1 FAILSAFE: from pull side by handle (or key); from push side by panic bar or emergency handle.

### Operating mode

The system controls access from the pull side of the door. With the lock locked by key, the access consent is possible via electric impulse (button, badge reader, etc.), which gives power supply in case of MAC1 or it turn off in case of MAC1 FAILSAFE, while opening is always possible from the push side by means of the panic bar or emergency handle. Activation of the handle is signaled by illumination of the "green LED," while the "red LED" indicates when the handle is idle. Both LEDs are off when no power is being supplied.

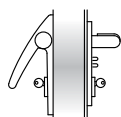
### Timed function

In this mode, the activation time lasts 30 seconds before the handle is returned to idle. In case of delivery with the door, if the door is opened within the 30 seconds, the timer is automatically reset to zero.

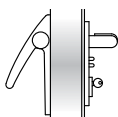
### Continuous "day time" function

In this mode the handle is continuously enabled by an electric switch (not supplied) for a longer period (for example during the day), which keeps the lock always enabled. The green LED remains switched on (not valid for the "Kit" version) and is switched off only for the period between the door's opening and its fully closure.

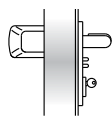
**MAC1 can be combined with any BM type panic bar and M3 emergency handles (to be ordered on the side).**



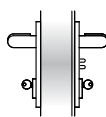
EX DC BM



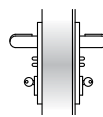
EX/TW BM



SL BM



M3



M1

## MAC2 AND MAC2 FAILSAFE SYSTEM

### Door opening in case of power failure (LED off)

- MAC2: from both sides by key only.
- MAC2 FAILSAFE: from both sides by handle (or key).

### Operating mode

The system controls access from both sides of the door. With the lock locked by key, the access consent is possible via electric impulse (button, badge reader, etc.), which gives power supply in case of MAC2 or it turn off in case of MAC2 FAILSAFE. Activation of both handles is signaled by illumination of the "green LED," with the "red LED" signaling when the handles are idle. Both LEDs are off when no power is being supplied.

### Timed function

In this mode, the activation time lasts 30 seconds before both handles are returned to idle. In case of delivery with the door, if the door is opened within the 30 seconds, the timer is automatically reset to zero.

### Continuous "day time" function

In this mode both handles are continuously enabled by an electric switch (not supplied) for a longer period (for example during the day), which keeps the lock always enabled. The green LEDs remain switched on (not valid for the "Kit" version) and are switched off only for the period between the door's opening and its fully closure.

**MAC2 standard delivery with M1 plastic handle. Upon request an M1X stainless steel handle can be delivered (to be ordered on the side).**

## MAC3 AND MAC3 FAILSAFE SYSTEM

### Door opening in case of power failure (LED off)

- MAC3: from push side only by key; from pull side by the M3tir/M3Xtir emergency handle.
- MAC3 FAILSAFE: from push side by handle (or key); from pull side by the M3tir/M3Xtir emergency handle.

### Operating mode

The system controls access from the push side of the door. With the lock locked by key, the access consent is possible via electric impulse (button, badge reader, etc.), which gives power supply in case of MAC3 or it turn off in case of MAC3 FAILSAFE, while opening is always possible from the pull side by means of the emergency handle. Activation of the handle is signaled by illumination of the "green LED," while the "red LED" indicates when the handle is idle. Both LEDs are off when no power is being supplied.

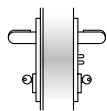
### Timed function

In this mode, the activation time lasts 30 seconds before the handle is returned to idle. In case of delivery with the door, if the door is opened within the 30 seconds, the timer is automatically reset to zero.

### Continuous "day time" function

In this mode the handle is continuously enabled by an electric switch (not supplied) for a longer period (for example during the day), which keeps the lock always enabled. The green LED remains switched on (not valid for the "Kit" version) and is switched off only for the period between the door's opening and its fully closure.

**MAC3 standard delivery with M3tir plastic handle. Upon request an M3Xtir stainless steel handle can be delivered (to be ordered on the side).**



M3tir

### NOTE

Before the installation of doors with MAC locks it is necessary to prepare the power supply (active door leaf side in case of double leaved doors) at a height of approx. 800mm from the finished floor level and in proximity of the wall angle, where the door frame will be mounted. The power wires must have a section of 0,75-1,0mm² and must be flexible.

# Electric handles

## Controlled opening system

**NINZ**  
FIREDOORS

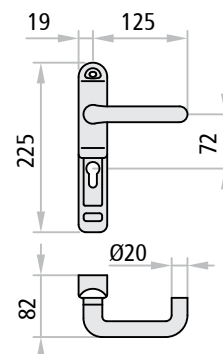
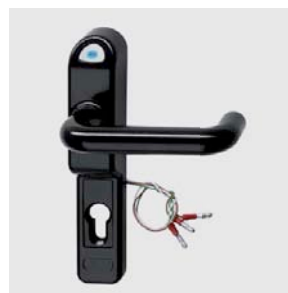
### ELM/MT MULTI-VOLTAGE ELECTRIC HANDLE

Controlled door opening system that employs an electronic device to activate the handle. The latter is equipped with an internal timer with a 30 seconds time allowance for opening the door, after which the electric handle is deactivated. The handle can be activated for longer time periods by means of the electrical switch. The illumination of a green LED and sounding of an acoustic signal (buzzer) indicate handle activation, while a red LED indicates deactivation.

**When ordered together with the door, the ELM/mt system includes:**

electric handle, electrical contacts between the leaf and the frame, power cable inside the door connected to electrical contacts, command panel, lock and fixing screws.

**If ordered separately from the door, the system includes:**  
electric handle, command panel and fixing screws.



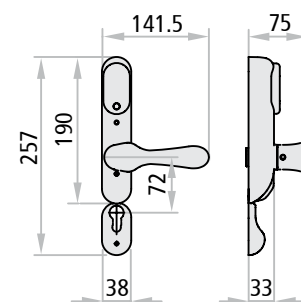
#### Technical data

power supply	12-24V AC/DC
current absorbed	at 12 V: 500 mA - at 24 V: 200 mA
startup current	at 12 V: 700 mA - at 24 V: 300 mA
minimum operating temperature	-5°C

### ELM/CISA MULTI-VOLTAGE ELECTRIC HANDLE

Controlled door opening system that employs an electronic device to activate the handle. Equipped with a separate timer (for insertion into the switch box) which can be set for different opening times: from a minimum of 0,1 second to a maximum of 10 days. Equipped with green LED that signal activation of the handle.

The ELM/cisa system includes: electric handles, 2 meters of power cable, cable sleeve for the connection between the leaf and the frame, 8/9 square spindle, fixing screws, adjustable timer packaged separately.



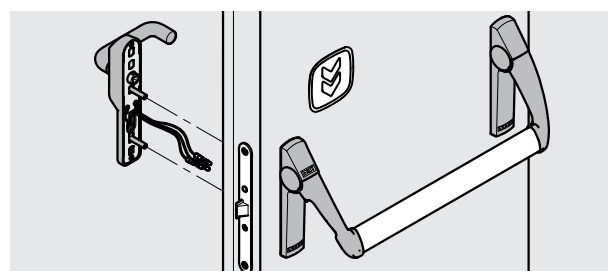
#### Technical data

power supply	12-24V AC/DC
current	absorbed: 360 mA - startup: 800 mA
operational temperature	-20°C ÷ +80°C

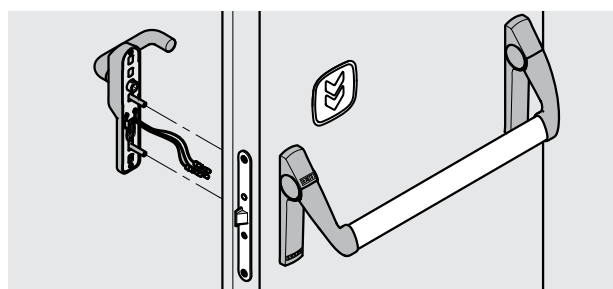
### PANIC BARS FOR COMBINATION WITH ELM/MT OR ELM/CISA ELECTRIC HANDLES

The controlled opening direction is from the pull side of the door (electric handle side). Locking the lock by key blocks the electric handle functioning, while opening is still possible via the panic bar on the push side.

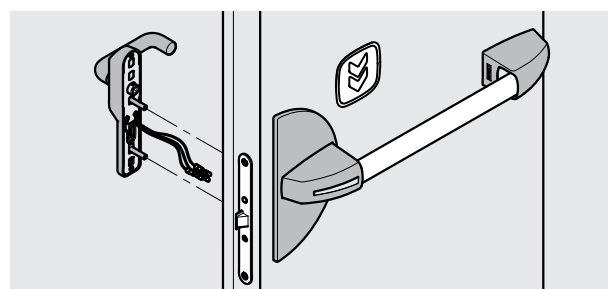
Use: one- or two-leaved doors for anti-panic exits when access control is desired on the pull side.



Exus



Twist



Slash

# Electric handles - Electromagnetic sensor

## Controlled opening system

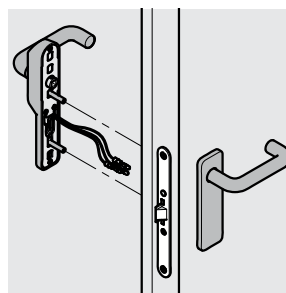
**NINZ**<sup>®</sup>  
FIREDOORS

### HANDLES FOR COMBINATION WITH ELM/MT OR ELM/CISA ELECTRIC HANDLES

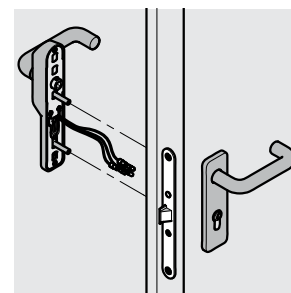
#### MSC, MSC-X

Use: one- or two-leaved doors when control is desired for one of the two opening directions. Locking with the key blocks opening in both directions.

Controlled opening may be for either the push or pull direction, depending on where the electric handle is applied.



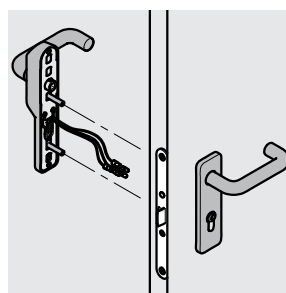
MSC



MCC/S

#### MCC/S, MCC/S-X

Use: for one- or two-leaved doors where access is to be controlled from the pull side only (electric handle side). Locking with the key blocks opening from the push side, but not from the side where the electric handle is applied.



MCC/T

#### MCC/T, MCC/T-X

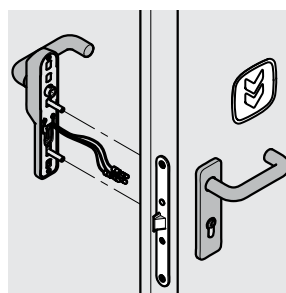
Use: for one- or two-leaved doors where access is to be controlled from the push side only (electric handle side). Locking with the key blocks opening from the pull side, but not from the side where the electric handle is applied.

### EMERGENCY HANDLES FOR COMBINATION WITH ELM/MT ELECTRIC HANDLE

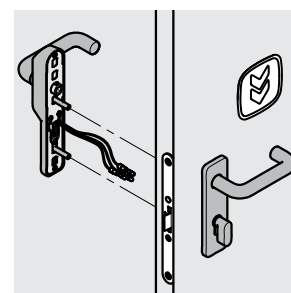
#### M3, M3X

Use: one- or two-leaved doors for emergency exits when access control is desired on the pull side.

The controlled opening direction is from the pull side of the door (electric handle side). Locking the lock by key blocks the operation of the electric handle, while opening remains possible via the M3 or M3X emergency handle.



M3



HOT-CIL

#### HOT-CIL, HOT-CIL-X

Use: for hotel rooms doors.

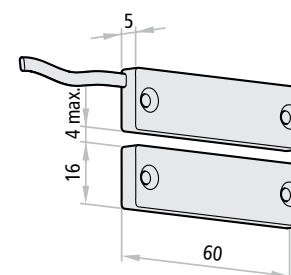
The controlled opening direction is from the push side of the door (electric handle side). Opening from push side is possible with an electric consent at the electric handle. Opening is always possible from the room side of the door via the HOT-CIL or HOT-CIL-X emergency handle, also in case of lock locked by thumbturn latch.

### ELECTROMAGNETIC SENSOR

The electromagnetic sensor allows to verify the position of the door leaf. To be applied to the door, composed of two elements: one electromagnetic sensor with two cables and one magnet.

#### Technical data

maximum voltage	200 V DC / 500 mA with resistive load
internal switch contact	n.o. (n.c. with magnet aligned)
operational temperature	+5 / +40 °C



# Door blocking electromagnet

## Controlled opening system

**NINZ**  
FIREDOORS

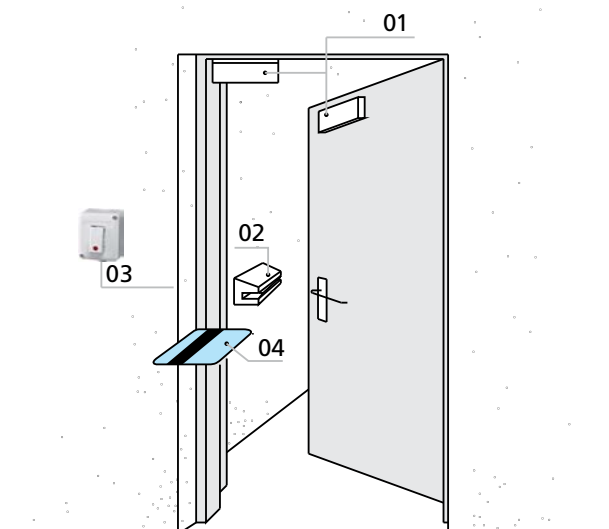
### DOOR BLOCKING ELECTROMAGNET

This system is for use in special situations when the doors remain closed and should only be opened with electrical consent. The electrically powered electromagnet holds the door closed with a holding force of approximately 300kg, rendering the action of the handle ineffective. Only electrical commands (badge reader, key button, etc.) or electrical consent from the fire detector system can deactivate the electromagnet making a door opening possible.

#### Operating mode

The door is held closed by the electromagnet (01) and the bolt of the lock. Opening from the outside can happen via magnetic card (04) using the Badge reader (02) of the card control system or any other system of choice and by retracting the bolt using the handle or key.

From the inside, the deactivation of the electromagnet is caused by the unlock button (03) (also remotely) or with the same system used for the pull side, while the locking bolt must still be retracted using the handle or key. The activated electromagnet signals its state with a red LED, whereas the green LED signals the temporary deactivation. Further a relay AC/DC signaling the electromagnetic state is supplied.



#### NOTE

Unlocking of the door is only possible if the door is not locked by key.

#### Technical data

power supply	12/24V DC	time delay	0 ÷ 90 sec.
current absorbed	500mA at 12V DC - 250mA at 24V DC	electromagnetic compatibility standard	EMC - UNI CEI 70011
force	up to 300kg.	certificate Nr.	0123/02

### COMPONENTS INCLUDED WITH THE DOOR BLOCKING ELECTROMAGNET

#### For Proget doors

Door blocking electromagnet, withstanding force 300kg, 12/24V DC, fastener plate, anchor with stainless steel fastener backplate.

#### For Rever/Univer doors

Door blocking electromagnet, withstanding force 300kg, 12/24V DC, fastener plate and angle bar, anchor with stainless steel fastener backplate.

#### Control system:

- "Access" code keypad
- Card-based control system
- Biometric fingerprint reader
- Unlock button

#### NOTE

Detailed specifications for the Control system are found on the "Command accessories" page.



PROGET electromagnet



REVER/UNIVER electromagnet

## CONTROL SYSTEMS AND RELATED ACCESSORIES

### “Access” code keypad

Keypad with 10 numeric buttons plus an Enter key, including control unit for 1 door, timer incorporated (0,5÷25 sec.) and flat cable. Up to 500 recordable different codes, composed from 1 to 10 digits.

#### Technical data

power supply	12 ÷ 18 V AC/DC
output	relay

### Card-based control system

Card control system, including control unit for 1 door, timer and AC adapter incorporated, badge reader, flat cable, three blank badges and a coded badge. Management of access control for multiple doors by P.C.

#### Technical data

power supply	230 V AC
output	12 V DC, max. 0,5 A

### Biometric fingerprint reader

Biometric reader for reading of fingerprints and transformation into key codes. Includes an internal unit for registering, memorizing and cancelling users, external unit for the reading of fingerprints and an autonomous low voltage AC adapter. The power supply for the management of the door is not included.

#### Technical data

power supply	230 V AC
output	relay

### Unlock button

Unlock button with white casing and control light.

### Power supply Switching

Can be combined with “Access code keypad”, with “Biometric fingerprint reader” and for the management of:

- max. Nr. 10 MAC® Multifunction Access Control \*
- or max. Nr. 5 Electromagnets door blocking
- or max. Nr. 5 ELM/mt Electric handles \*
- or max. Nr. 8 ELM/cisa Electric handles \*

\* provided that they are not commanded simultaneously

#### Technical data

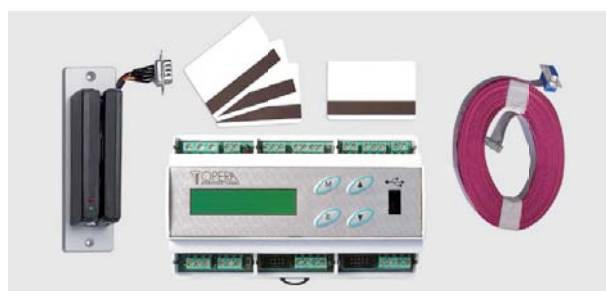
power supply	230 V AC
output	12 V DC - 3 A

#### NOTE

It is possible to wire a couple of buffer batteries to the power supply switching (see “Door-holding systems”).



„Access” code keypad



Card-based control system



Biometric fingerprint reader



Unlock button



Power supply switching

## C2 MONO-ZONE CENTRAL UNIT

Certified in accordance with EN 54-2 and EN 54-4 standards. The central unit designed and built in conformity with UNI EN 54 standards, which regulate unit for fire alarms and related accessories which each must conform with EN 54 standards.

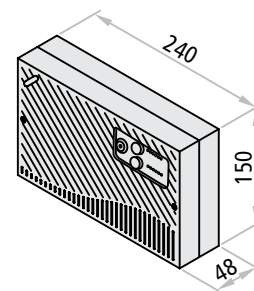
To use for the management of the door-holding electromagnets for fire-rated closures. Control all outputs towards the heat and smoke detectors, the alarm activation/reset buttons, the external siren and the charge of buffer batteries. Any breakdown or malfunction is signaled by LED on the front panel, and by internal acoustic signal for specific cases. There are three ways to reset alarm or breakdown signal: by a button located near the central unit, or by two other buttons of the front panel, one of which can be activated with key only.

### Technical data

model	52002
primary power supply	230V AC, 100mA, 50-60Hz
auxiliary power supply	2 batteries, 12V DC - 1,1 ÷ 1,3 Ah
„I“ current	min. 264mA ÷ max. 424mA
maximum output current battery	300mA
buffer battery charger output	24V DC (27.6V DC)
protection rating	IP30
operational temperature	-5°C ÷ +40°C
operational zones	single zone (mono-zone)
acoustic alarm	internal buzzer
"low battery" signal	intermittent internal buzzer
CE certification	0051-CPD-0264
conformity with standards	EN 54-2 + A1:2006 EN 54-4:1997 + A1:2002 + A1:2006

## BUFFER BATTERIES

Pair of rechargeable buffer batteries, 12V DC - 1.2Ah



### ATTENTION

According to standard EN 54-4, it is obligatory for the mono-zone central unit to be equipped with:

- Nr. 1 heat/smoke detector RFC certif. EN 54-7
- Nr. 1 pair of buffer batteries
- Nr. 1 external electronic siren certif. EN 54-3
- Nr. 1 alarm activation button certif. EN 54/11
- Nr. 1 fire/failure alarm deactivation button

### MANAGES

- max. Nr. 5 RFC heat/smoke detectors
- max. Nr. 5 alarm activation buttons
- max. Nr. 2 electronic sirens
- Nr. 4 EM or EMP or EMr electromagnets
- Nr. 2 buffer batteries

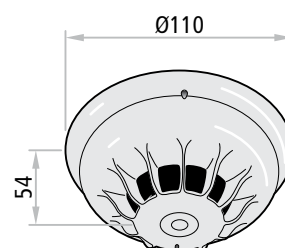


## RFC HEAT AND SMOKE DETECTOR

Certified in accordance with EN 54-7 standard.  
RFC heat and smoke detector characterized by white ABS casing. Optical/thermic operation with intervention temperature to be set between 54 and 65°C. To ensure proper functioning, the detectors must be subjected to regular 6-month maintenance checks. Please note that it is inadvisable to position the sensor where strong air currents are present.

### Technical data

operational voltage	11 ÷ 33V DC, typically 24V DC
consumption at rest, at 24V DC	67µA
absorption of alarm at 24V DC	45mA
operational temperature	-20°C ÷ +70°C
conformity with standards	EN 54-7

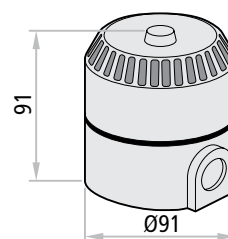


## ELECTRONIC SIREN

In red color ABS, includes a volume control function for installation in internal and external environments. The connection is made using double clamps (6) for branching. With 28 or 32 selectable tones and a second tone for two-phase alarms.

### Technical data

power supply	9 ÷ 28V DC
absorption by alarm at 12V DC	8mA
absorption by alarm at 24V DC	16mA
protection rating	IP65
operational temperature	-25°C ÷ +70°C
conformity with standard	EN 54-3

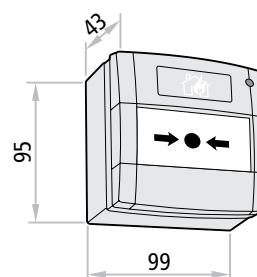


## ALARM ACTIVATION BUTTON

In red color ABS with a weight of 110 gr. Pressure on the plastic front plate activates the electrical contact. Re-arming of the contact is executed manually using a key (provided).

### Technical data

power supply	max. 30V DC
protection rating	IP41
operational temperature	max. +65°C
internal exchange contact	n.o./n.c.
conformity with standard	EN 54-11



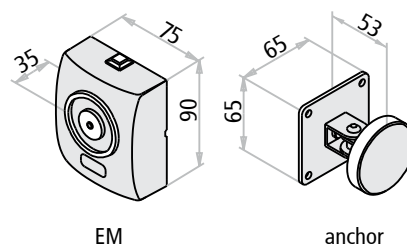
## ELECTROMAGNETS

### EM wall mounted

EM wall electromagnet with white plastic casing, consisting of a galvanized metal core, both complete with unlock button. Anchor consisting of a nickel-plated plate and jointed baseboard.

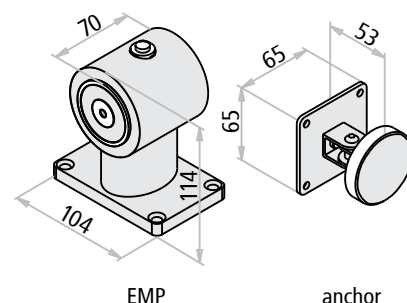
#### Technical data EM - EMP

power supply	24V DC
absorption	60mA
force	50kg.
CE certification	0407-CPD-011 (IG-098-2004) /04
conformity with standard	EN 1155



### EMP floor mounted

EMP floor electromagnets consisting of a galvanized metal core, both complete with unlock button. Anchor consisting of a nickel-plated plate and jointed baseboard.



### EMr with release by pulling

EMr electromagnet does not feature an unlock button as the unlocking is to be done manually by pulling the leaf. The holding force is 50kg, while the release force may be set between 4 and 12kg. This avoid damaging the fixture of the electromagnet on the wall (ripping off the plugs) in particular when mounted onto plasterboard. Housing made of stainless steel.

#### Technical data

electromagnet overall dimensions	Ø 90 - H 40 mm
anchor protrusion	H 40 or H 80 mm
power supply - absorption	24V DC - 60mA
force - release force	50kg. - settable between 4 and 12kg.
CE certification	0407-CPD-095 (IG-208-2006)
conformity with standard	EN 1155



## ELECTROMAGNETIC DOOR HOLD-OPEN DEVICE

The electromagnetic and wireless door hold-open device, is powered by batteries (supplied) and activated by the fire detection alarm system.

To be applied onto the lower corner of the door leaf, on the push side, allows to hold open the door leaf at any angle between 65° to 180°. Activated simply by foot by fixation of the blocking piston against a floor catch.

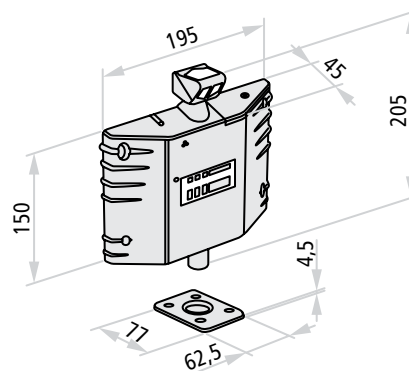
Automatic release of the door leaf in the event of fire alarm via acoustic signal of 65 dB with duration of at least 20 seconds.

Adjustable sensitivity to allow correct operation in the environment where installed.

Installation of an additional stainless steel kick plate (see dedicated page) on the side of its application is advisable, to protect the painted surface of the door leaf and to reinforce the fixing of the device.

### Technical data

power supply	2 long-life alkaline batteries (supplied) duration of 12 month approx.
activation signal	intensity: 65 dB - duration: at least 20 seconds
complementary functions	adjustable sensitivity of the activation signal, programmable automatic night-time release at pre-set time, weekly automated test
CE certification	AE0021
conformity with standard	EN 1155



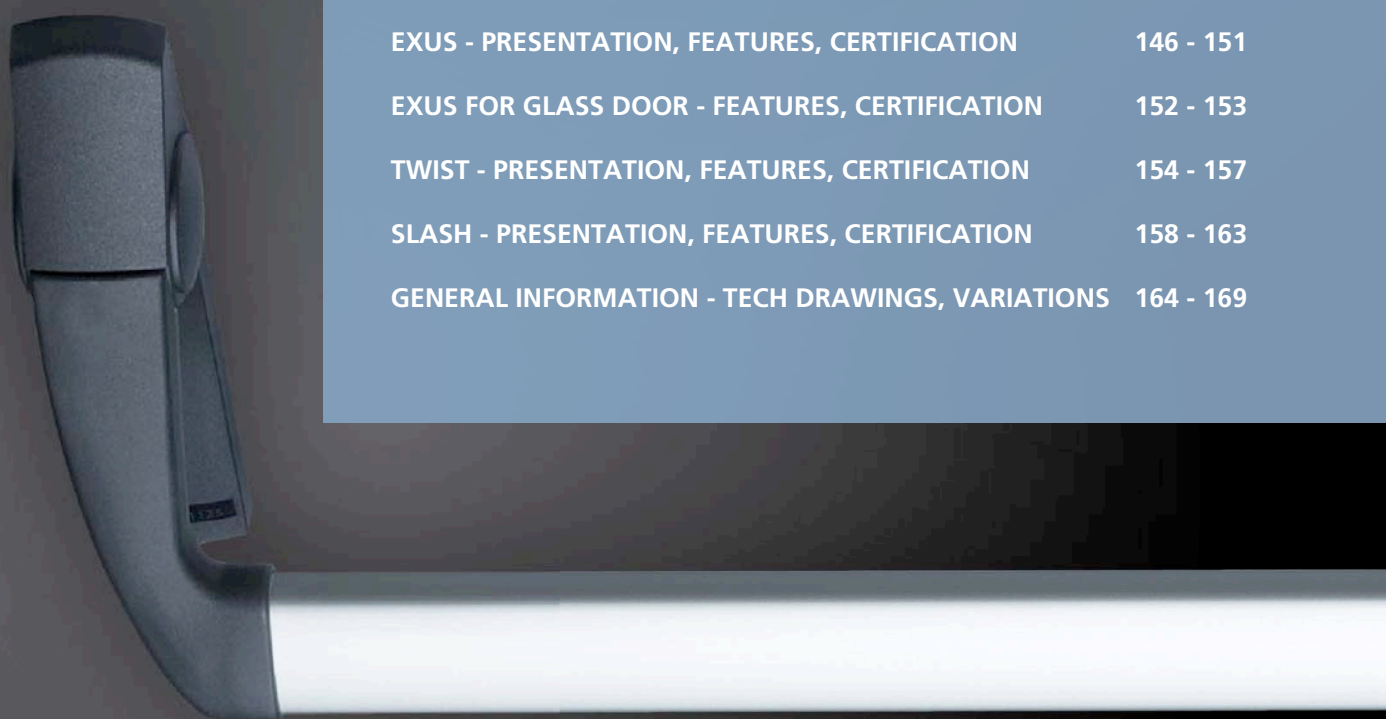
**"safety is in  
your hands"**





## Emergency handles Panic bars

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## EN 1125:2008 AND EN 179:2008 STANDARDS

New European standards for CE marked safety exit and emergency exit devices entered into effect on 01 January 2010, replacing the previous EN 1125: 1997 + A1:2001 and EN 179:1997 standards.

Standard EN 1125: 2008 specifies the requirements for manufacturing, performance levels and testing of anti-panic exit devices activated mechanically by a horizontal bar and designed for specific use in panic situations along escape routes.

Standard EN 179: 2008 specifies the requirements for the manufacturing, performance levels and testing of emergency exit devices activated mechanically by a lever handle or push panel.

CE conformity of the anti-panic and emergency exit devices with the standard requirements must be demonstrated by initial type testing and production controls carried out by the manufacturer under the continuous observation of the certifying body.

### Performance and safety requirements

- Device selection depends on the risk analysis of its use when installed along escape routes or emergency exits.
- Anti-panic devices are only required to conform with standard EN 1125, permitting exit at any time by a single operation on the horizontal bar that requires no prior knowledge of how the device functions and that permits opening even when the door is subjected to a load. These requirements simulate the forces that could be applied by people who are in a state of panic.
- Standard EN 179 concerns emergency devices designated for use in emergency situations involving people who are accustomed to using safety exits and their devices, and who are therefore unlikely to be taken by panic.
- Devices for anti-panic or emergencies must be designed so that the door can be opened from the inside at any time in less than 1 second.
- Materials used for anti-panic exit devices must remain operational at temperatures between -10° and + 60°.
- Verification is required for suitability of use with fire/smoke resistant doors, and this verification may only be received by passing a fire resistance test on both sides of the door in conformity with EN 1634-1.
- It is extremely important that anti-panic and emergency devices not be used on fire doors that have a higher fire resistance time than the level for which the device itself has been approved.
- To reduce the risk of entrapping fingers and/or blocking the device, checks based on visual inspection and measurement with appropriate calipers is prescribed.
- Protrusions and corners that could cause harm to persons must be smoothed down.
- Anti-panic or emergency exit devices that activate upper and lower vertical rods (on the inactive leaf, for instance) must ensure that manipulation of the lower rod does not activate the upper rod.
- The strike box mounted on the floor must not rise higher than 15 mm and must be tapered in the direction of the escape route.
- Periodic lubrication must be possible without requiring disassembly of the device.
- For door mass greater than 200 kg and leaf dimensions greater than 1320 x 2520 mm, additional testing under harsher conditions are required.
- The durability of the device may be classified as grade 6 (100,000 cycles) or grade 7 (200,000 cycles). For inactive leaves, grade 6 corresponds to 10,000 cycles, and for grade 7 - 20,000 cycles.
- The presence of an external door furniture (key, cylinder, lever handle, doorknob, etc.) must not in any way interfere with the activation of the internal anti-panic or emergency device.

# Provisions/Standards

For emergency exit devices / Anti-panic devices for escape routes



- External door furnitures other than those provided by the anti-panic device manufacturer is not considered to conform with standards.
- External door furnitures provided by the manufacturer may have either manual or electrical operation (e.g., electric handle or lock activated electrically by the handle).
- The material used to make the device must not contain or release dangerous substances in greater amounts than prescribed by European standards or national regulations.
- Anti-panic and emergency exit devices must be accompanied by clear, detailed instructions for installation and maintenance, including a list of all of the elements that have been tested and approved for use of the device and that could be provided separately.
- **It is essential for anti-panic and emergency exit devices to be installed according to the manufacturer's instructions using duly compatible components only.**
- Horizontal bars and levers must normally be installed at a height range of 900 to 1100 mm above the finished floor level, as measured in the closed position. If it is known that children represent the majority of the rooms' occupants, a reduction in bar height should be considered.
- Once the installation is complete, the force required on the horizontal bar to release the lock must be measured, using a force gauge. Actual measured forces must be reported on the maintenance registry in the installation instructions. The installation instructions should be handed over to the user, who must preserve them for use during maintenance operations.
- **To ensure that performance conforms with certifications, regular maintenance checks need to be carried out at intervals of one month or less, with periodic checks that all of the system's components still correspond to the component list provided at the outset.**

## OFFICIAL GAZETTE OF THE EUROPEAN UNION 04 JULY 2009

### Information from member states:

**Commission communication in the context of the application of Directive 89/106/CEE of the Council in relation to the approach of regulatory and administrative legislative provisions of Member States in regards to construction products.**


OEN (1)	Reference and title of the standard	Reference of the substitute standard
CEN	EN 1125:2008 Lock accessories Anti-panic devices for escape routes activated by horizontal bar - Test methods and require- ments	EN 1125/1997
CEN	EN 179:2008 Lock accessories Emergency exit devices activated by lever handles or push plates	EN 179/1997

Date of the standard's entry into effect as a harmonized European standard	Date of expiration of the co-existence period
1.1.2009	1.1.2010

### CE MARKING ACCORDING TO EN 179:2008

How to read the CE marking:

	CE conformity marking consisting of the “ <b>CE</b> ” symbol indicated in Directive 93/68/CE																				
<b>M3 device for emergency exits</b>	Product description																				
<b>Ninz S.p.A. Corso Trento, 2/A I-38061 ALA (TN)/ITALY</b>	Name or identifying mark and registered address of the manufacturer																				
<b>10</b>	Last two digits of the year when the marking was applied																				
<b>EN 179:2008</b>	Standard number																				
<b>0425</b>	Identification number for the certifying body																				
<b>2147-CPD-2010</b>	CE certification number																				
<table><tr><td><b>3</b></td><td><b>7</b></td><td><b>7</b></td><td><b>B</b></td><td><b>1</b></td><td><b>4</b></td><td><b>4</b></td><td><b>2</b></td><td><b>A</b></td><td><b>A</b></td></tr><tr><td>1st</td><td>2nd</td><td>3rd</td><td>4th</td><td>5th</td><td>6th</td><td>7th</td><td>8th</td><td>9th</td><td>10th</td></tr></table>	<b>3</b>	<b>7</b>	<b>7</b>	<b>B</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>A</b>	<b>A</b>	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	Product classification
<b>3</b>	<b>7</b>	<b>7</b>	<b>B</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>A</b>	<b>A</b>												
1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th												

### CLASSIFICATION ACCORDING TO EN 179:2008

How to read the classification:

#### Category of use (1st character)

Only one category of use is applicable:

- grade 3: very frequent use with little need to pay attention, in the sense of the possibility of accidents or improper use.

#### Durability (2nd character)

Two different durability ratings are applicable:

- grade 6: 100.000 test cycles;
- grade 7: 200.000 test cycles.

#### Mass of the door (3rd character)

Three different grades of door mass are applicable:

- grade 5: up to 100 kg;
- grade 6: up to 200 kg;
- grade 7: over 200 kg.

#### Suitability for use with fire/smoke rated doors (4th character)

Three different grades are applicable:

- grade 0: non approved for use on fire/smoke rated doors;
- grade A: suitable for use on smoke rated doors;
- grade B: suitable for use on fire/smoke rated doors; on the basis of testing in conformity with EN 1634-1.

#### Human safety (5th character)

Only a single human safety rating is applicable:

- grade 1: all devices for panic exits must ensure human safety, so for purposes of the present standard only the maximum rating is allowed.

#### Corrosion resistance (6th character)

The two different corrosion resistance ratings indicated in EN 1670:2007 are applicable:

- grade 3: 96 h (high resistance);
- grade 4: 240 h (extra-high resistance).

#### Material safety (7th character)

Five different material safety grades are applicable:

- grade 2: 1000N
- grade 3: 2000N
- grade 4: 3000N
- grade 5: 5000N

#### Protrusion of horizontal bar (8th character)

Two different grades of device protrusion are applicable:

- grade 1: protrusion up to 150 mm (extra protrusion);
- grade 2: protrusion up to 100 mm (standard protrusion).

#### Activation type (9th character)

Two activation types are applicable:

- type A: emergency exit device with lever handle activation
- type B: emergency exit device with push panel activation (SLASH, for example).

#### Field of door application (10th character)

Four different categories of field of door application are applicable, depending on the final use of the emergency exit device:

- category A: one-leaved door, two-leaved door: active or inactive leaf, push opening;
- category B: only one-leaved doors, push opening;
- category C: two-leaved doors, inactive leaf only, push opening;
- category D: one-leaved doors only, pull opening.

### CE MARKING ACCORDING TO EN 1125:2008

How to read the **CE** marking:

<div>CE</div>	CE conformity marking consisting of the “CE” symbol indicated in Directive 93/68/CE
EXUS Panic exit device	Product description
Ninz S.p.A. Corso Trento, 2/A I-38061 ALA (TN)/ITALY	Name or identifying mark and registered address of the manufacturer
08	Last two digits of the year when the marking was applied
EN 1125:2008	Standard number
0425	Identification number for the certifying body
0425 CPD 1228	CE certification number
<div><div><div>3</div><div>7</div><div>7</div><div>B</div><div>1</div><div>3</div><div>2</div><div>1</div><div>A</div><div>A</div></div><div><div>1st</div><div>2nd</div><div>3rd</div><div>4th</div><div>5th</div><div>6th</div><div>7th</div><div>8th</div><div>9th</div><div>10th</div></div></div>	Product classification

### CLASSIFICATION ACCORDING TO EN 1125:2008

How to read the classification:

#### Category of use (1st character)

There is only one category of use that may be utilized:  
- grade 3: very frequent use with little need to pay attention, in the sense of the possibility of accidents or improper use.

#### Durability (2nd character)

Two different durability ratings are applicable:  
- grade 6: 100,000 test cycles;  
- grade 7: 200,000 test cycles.

#### Mass of the door (3rd character)

Three different grades of door mass are applicable:  
- grade 5: up to 100 kg;  
- grade 6: up to 200 kg;  
- grade 7: over 200 kg.

#### Suitability for use with fire/smoke resistant doors (4th character)

Three different grades are applicable:  
- grade 0: non approved for use on fire/smoke resistant doors;  
- grade A: suitable for use on smoke resistant doors;  
- grade B: suitable for use on fire/smoke resistant doors;  
on the basis of testing in conformity with EN 1634-1.

#### Human safety (5th character)

Only a single human safety rating are applicable:  
- grade 1: all devices for panic exits must ensure human safety, so that for purposes of the present standard only the maximum rating is allowed.

#### Corrosion resistance (6th character)

The two different corrosion resistance ratings indicated in EN 1670:2007 are applicable:  
- grade 3: 96 h (high resistance);  
- grade 4: 240 h (extra-high resistance).

#### Material safety (7th character)

Only a single material safety rating are applicable:  
- grade 2: there is only one category that represents the minimum obtainable rating due to the fact that material safety must be viewed as secondary relative to human safety.

#### Protrusion of horizontal bar (8° character)

Two different grades of horizontal bar protrusion are applicable:  
- grade 1: protrusion up to 150 mm (extra protrusion);  
- grade 2: protrusion up to 100 mm (standard protrusion).

#### Horizontal bar activation type (9th character)

Two activation types are applicable:  
- type A: panic bars with push-bar activation (EXUS and TWIST, for example);  
- type B: panic bars with touch-bar activation (SLASH, for example).

#### Field of door application (10th character)

Three different categories of field of door application are applicable, depending on the final use of the panic exit device:  
- category A: one-leaved door, two-leaved door: active or inactive leaf, push opening;  
- category B: only one-leaved doors, push opening;  
- category C: two-leaved doors, inactive leaf only, push opening.

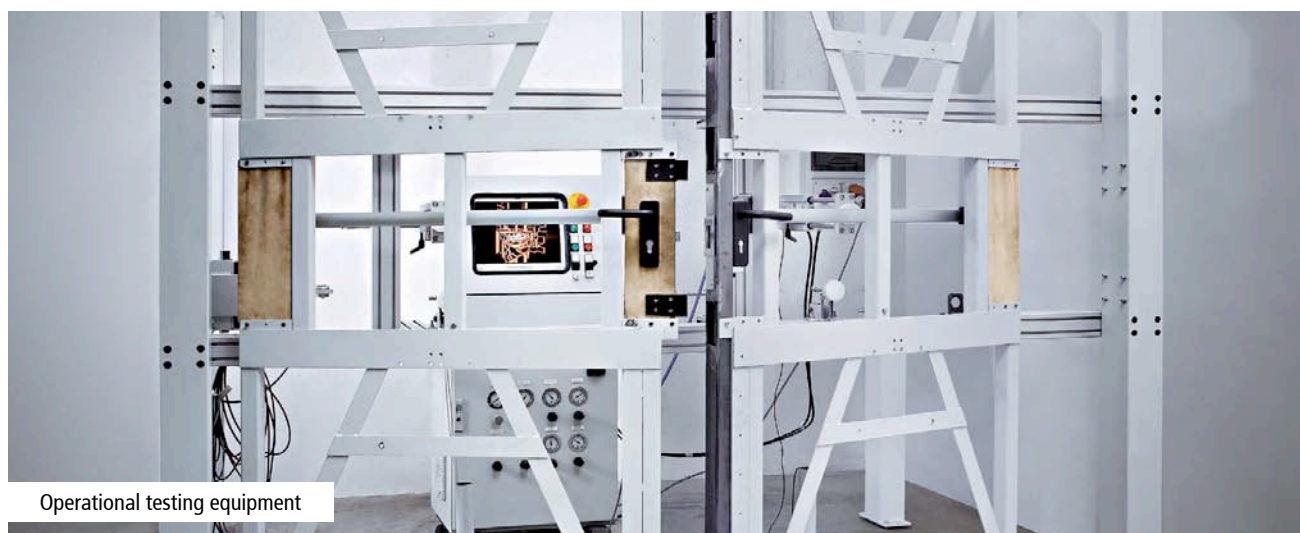
# Provisions/Standard

Emergency exit devices / Anti-panic devices for escape routes

**NINZ**<sup>®</sup>  
FIREDOORS

## TESTING EQUIPMENT

Our company maintains its own testing and experimentation equipment in order to ensure maximum quality, reliability and innovative service to our customers.



## PRESENTATION

### Emergency exit devices (emergency handles)

Ninz S.p.A. is a leader in fire doors, and has once again re-asserted itself as a visionary company with a strong identity created by its continuous research into the design and technology of its own products, such as the new line of emergency exit handles.

The handles are **CE** marked and pre-certified according to European standard EN 179:2008, which entered in effect January 01, 2010, and which prescribes a several substantial changes that further extend the requirements for maximum safety and ease of opening.

### The Kit designed for your needs

When ordered separately from the door, the M3, M3X, M14, M14X, Hot CIL and HOT CIL-X handles are packaged in functional KITS for display and presentation in the most appropriate distribution context.

Packaging in KITS ensures customers, installers and therefore the final users that they are receiving a complete anti-panic system with fully corresponding and **CE** certified parts.

### Certifications and replacements

Given the importance of maintaining the entire system's **CE** conformity, special attention has been paid to replacement parts, which have been subjected to testing in accordance with the EN 179:2008 standard due to their pivotal role in maintaining **CE** certification.

The only way to ensure that the products maintain their original characteristics over time is by using original NINZ replacement parts.

For this reason, the instructions for emergency handles include additional indications regarding proper installation and maintenance plus a exploded assembly drawing that specifies every smallest detail of the certified system with all of the references required for ordering replacement parts.



# M3 emergency handle

Emergency handle for internal locks - EN 179:2008

## M3 IN BLACK PLASTIC

### Description

Lever handle for emergency exit:

- Reversible for right or left opening
- Applicable to single leaf doors or the active leaf (main leaf) of two-leaved doors located at emergency exits
- Suitable for Rever/Univer/Proget doors and other types of emergency exit doors
- Both the levers and the cover plates are made of black plastic, and the core of the lever and the installation plate are made of galvanized steel
- The lock is anti-panic/fire rated for European profile cylinders
- Cylinder to pass in nickel-plated brass with 3 keys
- Suitable for doors with dimensions up to 1350 x 2880mm/leaf, mass up to 300kg/leaf, with ratings up to EI120 - REI120 and smoke resistance, handle protrusion of 67mm

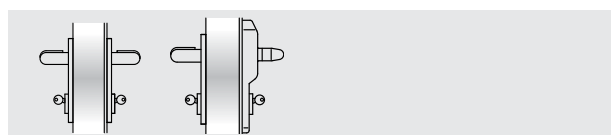
### Use

The M3 lever handle for emergency exits is for use on doors designated for emergency situations involving people who are accustomed to using safety exits and their hardware, and who are therefore unlikely to be in a state of panic.

### Operating mode

With the lock locked by key, the door can no longer be opened from the pull side, while the door can still be opened using the lever on the push side.

## VERSIONS AVAILABLE

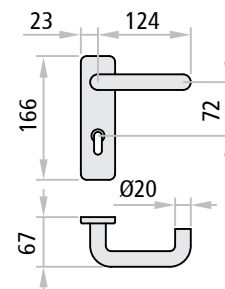


M3

M3 ELM/mt

## VARIATIONS ON REQUEST

- MAC1 type panic lock, including access control mode
- Panic lock with 3 closing points (for multipurpose PRO-GET doors only)
- Mastered or coded cylinders



## SUPPLIED TOGETHER WITH THE DOOR

### For single leaf or the active leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic lock with 65mm entrance and the strike box insert.

*Included (in the package):* Nr. 2 black plastic lever handles, Nr. 2 galvanized steel installation plates, Nr. 2 black plastic cover plates, Nr. 1 split square spindle, Nr. 1 standard nickel-plated cylinder to pass with 3 keys, Nr. 1 adhesive pictogram (green arrow), Nr. 1 instruction/maintenance manual.

*Versions available:* M3, M3 ELM/mt.

*ELM electric handle: see the dedicated pages*

## M3 KIT VERSION

### (SUPPLIED SEPARATELY FROM THE DOOR)

### KIT for single leaf or the active leaf of two-leaved doors:

Specify the leaf thickness in the order.

*KIT contents:* Nr. 1 anti-panic lock with 65mm entrance, Nr. 1 strike box insert, Nr. 2 black plastic lever handles, Nr. 2 galvanized steel installation plates, Nr. 2 black plastic cover plates, Nr. 1 split square spindle, Nr. 1 standard nickel-plated cylinder to pass with 3 keys, Nr. 1 adhesive pictogram (green arrow), Nr. 1 instruction/maintenance manual.

*Versions available:* M3

# M3X emergency handle

Emergency handle for internal locks - EN 179:2008

## M3X IN STAINLESS STEEL

### Description

Lever handle for emergency exit:

- Reversible for right or left opening
- Applicable to single leaf doors or the active leaf (main leaf) of two-leaved doors located at emergency exits
- Suitable for Rever/Univer/Proget doors and other types of emergency exit doors
- The levers as well as the cover plates are made of AISI 304 brushed stainless steel, and the installation plates are made of galvanized steel
- The lock is anti-panic/fire rated for Euro profile cylinders
- Cylinder to pass in nickel-plated brass with 3 keys
- Suitable for doors with dimensions up to 1350 x 2880mm/leaf, mass up to 300kg/leaf, with fire resistance up to EI<sub>2</sub>120 - REI120 and smoke resistance, handle protrusion of 67mm

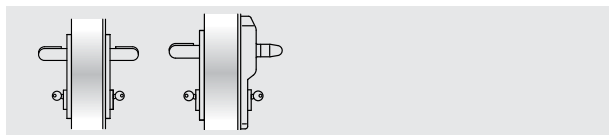
### Use

The M3X emergency exit handle are to be applied on doors designated for emergency situations in which the people involved are accustomed to using safety exits and their opening devices, and therefore who are very unlikely to be in a state of panic.

### Operating mode

With the lock locked by key, the door can no longer be opened from the pull side, but the door can still be opened from the push side using the handle.

## VERSIONS AVAILABLE

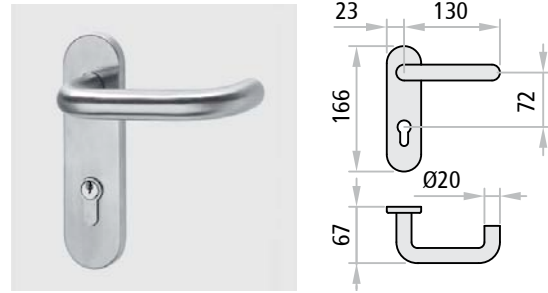


M3X

M3X ELM/mt

## VARIATIONS ON REQUEST

- MAC1 panic lock, including access control system
- Panic lock with 3 closing points (for multipurpose PRO-GET doors only)
- Mastered or coded cylinders



## SUPPLIED TOGETHER WITH THE DOOR

### For single leaf or the active leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic lock with 65mm entrance and the strike box insert.

*Included (in the package):* Nr. 2 lever handles in brushed stainless steel, Nr. 2 galvanized steel installation plates, Nr. 2 cover plates in brushed stainless steel, Nr. 1 split square spindle, Nr. 1 standard nickel-plated cylinder to pass with 3 keys, fastener screws, Nr. 1 adhesive pictogram (green arrow), Nr. 1 instruction/maintenance manual.

*Versions available:* M3X, M3X ELM/mt.

*ELM electric handle: see the dedicated pages*

## M3X KIT VERSION

### (SUPPLIED SEPARATELY FROM THE DOOR)

### KIT for single leaf or the active leaf of two-leaved doors:

Specify the leaf thickness in the order.

*KIT contents:* Nr. 1 anti-panic lock with 65mm entrance, Nr. 1 strike box insert, Nr. 2 lever handles in brushed stainless steel, Nr. 2 galvanized steel installation plates, Nr. 2 cover plates in brushed stainless steel, Nr. 1 split square spindle, Nr. 1 standard nickel-plated cylinder to pass with 3 keys, fastener screws, Nr. 1 adhesive pictogram (green arrow), Nr. 1 instruction/maintenance manual.

*Versions available:* M3X

# Certifications

Emergency handle for internal locks - EN 179:2008



## M3, M3X CERTIFICATIONS

Suitable for one-leaved doors or the active leaf of two-leaved doors with dimensions up to 1350x2880mm/leaf and a mass up to 300kg/leaf.

Denomination	M3, M3X DEVICE FOR EMERGENCY EXITS
Manufacturer	Ninz S.p.A. Corso Trento, 2/A I-38061 ALA (TN)/ITALY
Year application trademark	10
Nr. and year of the standard	EN 179:2008
Certifying body	0425
CE certificate Nr.	2147-CPD-2010
Classification	<b>3 7 7 B 1 4 4 2 A A</b>

1st	Category of use very frequent	
2nd	Durability 200.000 cycles	
3rd	Door mass over 200 kg	
4th	Suitable for fire/smoke rated doors	
5th	Safety, suitable for evacuation routes	
6th	High corrosion resistance 240 h	
7th	Material safety 1000 N	
8th	Handle protrusion up to 100 mm	
9th	Activation type with lever handle	
10th	Suitable for one- or two-leaved doors	

ATTESTATO DI CONFORMITÀ DIRETTIVA 89/106/CEE CERTIFICATE OF CONFORMITY DIRECTIVE 89/106/CEE		CE 0425
Questo certificato è rilasciato in conformità a quanto prescritto dall'Art.6 par.2 lettera b) del DPR 21 aprile 1993, n°246 (Direttiva 89/106/CEE) ed attesta la conformità del prodotto di seguito identificato agli Art.1, Art.2 ed allegato A del DPR 21 aprile 1993, n°246 (Direttiva 89/106/CEE). This certificate is issued in accordance with the requirements defined in Article 6 par.2 lett. B) of DPR 21st April 1993, n°246 (89/106/CE Directive) and certifies the compliance of the product to art. 1, art.2 and annex A of DPR 21st April 1993, n°246 (89/106/CE Directive)		
ATTESTATO N°	2147 - CPD - 2010	CERTIFICATE N°
Organismo notificato	Notified Body	
ICIM S.p.A. - Piazza Don Mapelli, 75 - 20099 SESTO SAN GIOVANNI	Identification number: 0425	
Dati Fabbricante	Manufacturer details	
Sede legale	NINZ S.p.A. Corso Trento, 2/A 38061 ALA (TN) ITALY	Head office
Unità operativa		Production unit
Dati prodotto	Product details	
Tipologia	Type	
	DISPOSITIVI PER USCITE DI EMERGENZA AZIONATI MEDIANTE MANIGLIA A LEVA O PIASTRA A SPINTA	
Denominazione	EMERGENCY EXIT DEVICES OPERATED BY A LEVER HANDLE OR PUSH PAD	
Dispositivo di emergenza	serie "M3" "M3X"	Denominazione
Serrature antipanico	art. AP16/18, 3201001.018, SCA 1 3201001.019/020, MAC 1 3201001.041/042	
Coppia di deviatori	art. 4201010	
Riscontro serratura	art. 2401006, 2401005, 2401015, 2401014, 2401035, 3412001	
Aste verticali	art. 3305013	
Comandi	art. 3101001.009 (M3), 3101017.003 (M3X)	
Sistema di attestazione della conformità	1	System of attestation of conformity
Norma di riferimento	EN 179:2008	Standard reference
Classificazione	3   7   7   B   1   4   4   2   A   A	
Eventuali estensioni	Nessuna / None	
Eventuali condizioni di subordinazione della Certificazione CE	Nessuna / None	
Condition of subordination of CE certification		
Il presente attestato è valido esclusivamente per il prodotto indicato. Eventuali varianti da apportare devono essere approvate da ICIM SpA The present certificate is valid only for the product described above. Every change has to be approved by ICIM S.p.A.		
Data di emissione Issue date	Emissione corrente Current issue	Data di scadenza Expiring date
12/03/2010	12/03/2010	11/03/2020
		ICIM S.p.A. Il Presidente Ing. Tullio Badino

# HOT-CIL emergency handle

Emergency handle for internal locks - EN 179:2008

**NINZ**<sup>®</sup>  
FIREDOORS

## HOT-CIL IN BLACK PLASTIC

### Description

Lever handle and fixed doorknob for emergency exits, especially for hotel rooms:

- Reversible for right or left opening
- Normally applied on single leaf doors or the active leaf of two-leaved doors if the inactive leaf normally remains closed and can only be opened manually with the latch bolt (019)
- Suitable for Rever/Univer/Proget doors and other types of emergency exit pull doors
- The lever, doorknob and even the cover plates are made of black plastic, while the core of the lever and the installation plates are made of galvanized steel
- The lock is anti-panic/fire rated pull type for Euro profile cylinders
- Mastered cylinder to pass with thumbturn latch on the pull side made of nickel-plated brass with 3 keys
- Suitable for doors with dimensions up to 1350 x 2880mm/leaf, mass up to 300kg/leaf, with fire rating EI,120 - REI120 and smoke resistance, handle protrusion of 67mm

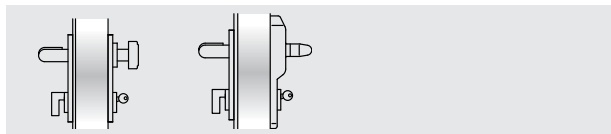
### Use

The HOT-CIL emergency exit handle is to be applied on doors designated for emergency situations in which the people involved are accustomed to using safety exits and their opening devices, and who are therefore very unlikely to be in a state of panic.

### Operating mode

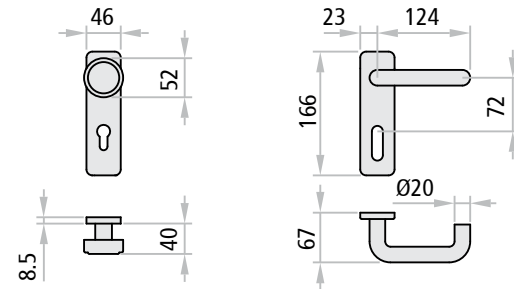
The door can be opened from the push side by key only, while it can be opened at any time from the pull side by pressing the handle, even when the lock is locked using the key. The lock has two bolts that protrude when the key or the thumbturn latch is turned.

## VERSIONS AVAILABLE



HOT-CIL

HOT-CIL ELM/mt



## SUPPLIED TOGETHER WITH THE DOOR

**For the single leaf or active leaf of two-leaved doors (the inactive leaf normally remains closed and can only be opened manually using the bolt lock (019)):**

*Included (mounted on the door):* the anti-panic lock with 65mm entrance and the strike box insert.

*Included (in the package):* Nr. 1 lever handle and Nr. 1 fixed doorknob in black plastic, Nr. 2 galvanized steel installation plates, Nr. 2 black plastic cover plates, Nr. 1 square spindle, Nr. 1 mastered cylinder with thumbturn latch on the pull side made of nickel-plated brass with 3 keys, fastener screws, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of instructions for installation/maintenance.

*Versions available:* HOT-CIL, HOT-CIL ELM/mt.

*ELM electric handle:* see the dedicated pages.

## HOT-CIL KIT VERSION

### (SUPPLIED SEPARATELY FROM THE DOOR)

**KIT for single leaf or the active leaf of two-leaved doors (the inactive leaf normally remains closed and can only be opened manually using the bolt lock (019)):**

Specify the leaf thickness in the order.

*KIT contents:* Nr. 1 anti-panic lock with 65mm entrance, Nr. 1 strike box insert, Nr. 1 lever handle and Nr. 1 fixed doorknob in black plastic, Nr. 2 galvanized steel installation plates, Nr. 2 black plastic cover plates, Nr. 1 square spindle, Nr. 1 mastered cylinder with thumbturn latch on the pull side made of nickel-plated brass with 3 keys, fastener screws, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of instructions for installation/maintenance.

*Versions available:* HOT-CIL

# HOT-CIL-X emergency handle

Emergency handle for internal locks - EN 179:2008

**NINZ**  
FIREDOORS

## HOT-CIL-X IN STAINLESS STEEL

### Description

Lever handle and fixed doorknob for emergency exits, especially for hotel rooms:

- Lever handle and fixed doorknob for emergency exits, especially for hotel rooms:
- Reversible for right or left opening
- Normally applied on single leaf doors or the active leaf of two-leaved doors if the inactive leaf normally remains closed and can only be opened manually with the latch bolt (019)
- Suitable for Rever/Univer/Proget doors and other types of emergency exit pull doors
- The lever, doorknob and cover plates are made of AISI 304 brushed stainless steel, while the installation plates are made of galvanized steel
- The lock is anti-panic/fire rated for Euro profile cylinders
- Mastered cylinder to pass with thumbturn latch on the pull side made of nickel-plated brass with 3 keys
- Suitable for doors with dimensions up to 1350x2880mm/leaf, mass up to 300kg/leaf, fire rated to EI<sup>2</sup>120 - REI120 and smoke resistance, handle protrusion of 67mm

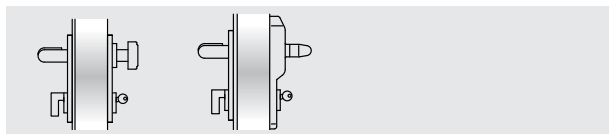
### Use

The HOT-CIL-X emergency exit handle is for use on doors designated for emergency situations in which the people involved are accustomed to using safety exits and their opening devices, and who are therefore very unlikely to be in a state of panic.

### Operating mode

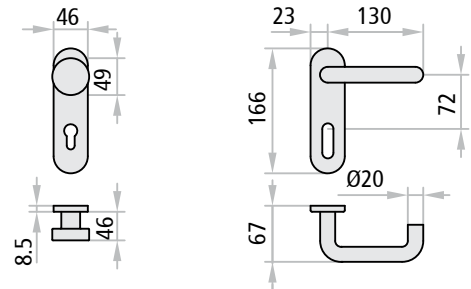
The door can be opened from the push side by key only, while it can be opened at any time from the pull side by pressing the handle, even when the lock is locked using the key. The lock has two bolts that protrude when the key or the thumbturn latch is turned.

## VERSIONS AVAILABLE



HOT-CIL-X

HOT-CIL-X ELM/mt



## SUPPLIED TOGETHER WITH THE DOOR

**For the single leaf or active leaf of two-leaved doors (the inactive leaf normally remains closed and can only be opened manually using the bolt lock (019)):**

*Included (mounted on the door):* the anti-panic lock with 65mm entrance and the strike plate insert.

*Included (in the package):* Nr. 1 lever handle and Nr. 1 fixed doorknob in brushed stainless steel, Nr. 2 galvanized steel installation plates, Nr. 2 cover plates in brushed stainless steel, Nr. 1 square spindle, Nr. 1 mastered cylinder with thumbturn latch on the pull side made of nickel-plated brass with 3 keys, fastener screws, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of instructions for installation/maintenance.

*Versions available:* HOT-CIL-X, HOT-CIL-X ELM/mt.

*ELM electric handle:* see the dedicated pages.

## HOT-CIL-X KIT VERSION

(SUPPLIED SEPARATELY FROM THE DOOR)

**KIT for single leaf or the active leaf of two-leaved doors (the inactive leaf normally remains closed and can only be opened manually using the bolt lock (019)):**

Specify the leaf thickness in the order.

*KIT contents:* Nr. 1 anti-panic lock with 65mm entrance, Nr. 1 strike plate insert, Nr. 1 lever handle and Nr. 1 fixed doorknob in brushed stainless steel, Nr. 2 galvanized steel installation plates, Nr. 2 cover plates in brushed stainless steel, Nr. 1 square spindle, Nr. 1 mastered cylinder with thumbturn latch on the pull side made of nickel-plated brass with 3 keys, fastener screws, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of instructions for installation/maintenance.

*Versions available:* HOT-CIL-X

# Certifications

Emergency handle for internal locks - EN 179:2008



## HOT-CIL, HOT-CIL-X CERTIFICATION

Suitable for one-leaved doors or two-leaved doors with the second leaf semi-fixed and not equipped with emergency or anti-panic devices, with dimensions up to 1350x2880mm/leaf, mass up to 300kg/leaf.



Denomination	HOT-CIL, HOT-CIL-X EMERGENCY EXIT DEVICE
Manufacturer	Ninz S.p.A. Corso Trento, 2/A I-38061 ALA (TN)/ITALY
Year application trademark	10
Nr. and year of the standard	EN 179:2008
Certifying body	0425
CE certificate Nr.	0425-CPR-2149
Classification	<b>3 7 7 B 1 4 4 2 A D</b>

- 1st Category of use very frequent
- 2nd Durability 200.000 cycles
- 3rd Door mass over 200 kg
- 4th Suitable for fire/smoke rated doors
- 5th Safety, suitable for evacuation routes
- 6th High corrosion resistance 240 h
- 7th Material safety 1000 N
- 8th Handle protrusion up to 100 mm
- 9th Activation type with lever handle
- 10th Suited for one-leaved doors, pull opening

  
**Certificato di costanza delle prestazioni**  
*Certificate of constancy of performance*

Certificato N. **0425 - CPR - 2149**  
Certificate No.

In conformità al Regolamento 305/2011/UE del Parlamento Europeo e del Consiglio del 9 marzo 2011 (Regolamento Prodotti da Costruzione o CPR), questo certificato si applica al prodotto da costruzione.  
In compliance with Regulation 305/2011/UE of the European Parliament and of the Council of 9 March 2011 (the Construction Products Certification or CPR), this certificate applies to the construction product.

MODELLI MODELS	Modelli / Models <b>HOT-CIL, HOT-CIL-X</b>  Serratura anta attiva / Active leaf lock art. 3201001.011 (AP sp ti),  Controciastre / striking plates: 2401006, 2401005, 2401015, 2401014,  Maniglie / Handles art. 3101001.012 (M2), 3101017.002 (M2X)
CLASSIFICAZIONE CLASSIFICATION	<b>3 7 7 B 1 4 4 2 A D</b>

MODELLI MODELS	Modelli / Models <b>M3 TIR, M3X TIR</b>  Serratura anta attiva / Active leaf lock art. 3201001.051 (016 tir REV), 3201001.049 (MAC3 ax), 3201001.050 (MAC3 dx),  Controciastre / striking plates: 2401006, 2401005, 2401015, 2401014, 3201001.023, 3201001.007  Maniglie / Handles art. 3101001.009 (M3), 3101017.003 (M3X)
CLASSIFICAZIONE CLASSIFICATION	<b>3 7 7 B 1 3 4 2 A D</b>

SISTEMA DI VALUTAZIONE E VERIFICA DELLA COSTANZA DELLA PRESTAZIONE SYSTEM OF ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE	<b>1</b>
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ICIM S.p.A.

EMISSIONE  
ISSUE:  
**05/06/2014**

ICIM S.p.A. è socio unico - Piazza Don Enrico Magagnoli, 75 - 20090 Sesto San Giovanni (MI)

Annesso Page 1/5

# M14 emergency handle

Emergency handle for insertion in lock - EN 179:2008

## M14 IN BLACK PLASTIC

### Description

Lever handle for emergency exit:

- Reversible for right or left opening
- For application to the inactive leaf of two-leaved doors located at emergency exits
- Suitable for Rever/Univer/Proget doors and other types of emergency exit doors
- The lever and cover plate are both made of black plastic, while the core of the lever and the installation plate are made of galvanized steel (with external installation plate in case of Rever door)
- The safety lock is anti-panic fire rated, activates the vertical rods and ensures automatic closure
- Suitable for doors with dimensions up to 1350x 2880mm/ leaf, mass up to 300kg/leaf, with fire rating EI<sub>120</sub> - REI120 and smoke resistance, handle protrusion of 67mm

### Use

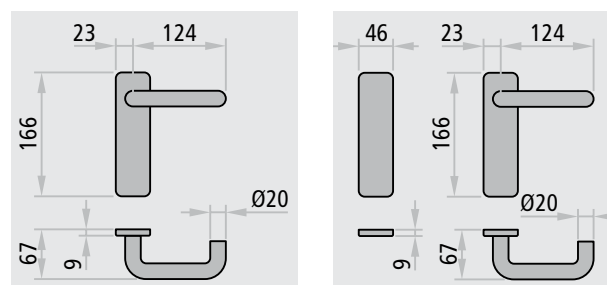
The M14 emergency exit handle is to be applied to doors designated for emergency situations in which the people involved are accustomed to using safety exits and their opening devices, and who are therefore highly unlikely to be in a state of panic.

The active (main) leaf must also be equipped with an anti-panic or emergency device.

### Operating mode

The M14 emergency device is always used in combination with a second device for safety or emergency exits that is applied to the active (main) leaf, and for this reason does not include external opening door furnitures.

From the push side, opening is possible at any time by pushing on the handle, which causes the vertical rods to retract and at the same time pulls back the bolt of the active leaf's lock, unlatching both doors.



version for Univer/Proget door

version for Rever door

## SUPPLIED TOGETHER WITH THE DOOR

### For the inactive leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80mm entrance, vertical rods, upper locking device, upper strike plate.

*Included (in the package):* Nr. 1 black plastic lever handle with galvanized steel installation plate and blank black plastic cover plate (with external installation plate for Rever doors), Nr. 1 square spindle, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (for fire doors only), fastener screws, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of instructions for installation/maintenance.

## M14 KIT VERSION (SUPPLIED SEPARATELY FROM THE DOOR)

### KIT for the inactive leaf of two-leaved doors:

Please specify the door type - REVER, UNIVER or PROGET - in the order.

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 1 black plastic lever handle with galvanized steel installation plate and blank black plastic cover plate (with external installation plate for Rever doors), Nr. 1 square spindle, Nr. 1 upper locking device (for Rever and Univer multipurpose only), Nr. 1 carrier arm (excluding Rever and Univer multipurpose doors), fastener screws, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of instructions for installation/maintenance.

# M14X emergency handle

Emergency handle for internal locks - EN 179:2008

**NINZ**<sup>®</sup>  
FIREDOORS

## M14X IN STAINLESS STEEL

### Description

Lever handle for emergency exit:

- Reversible for right or left opening
- For application to the inactive leaf of two-leaved doors located at emergency exits
- Suitable for Rever/Univer/Proget doors and other types of emergency exit doors
- The lever and cover plate are both made of AISI 304 brushed stainless steel, while the installation plate is made of galvanized steel (with external installation plate in case of Rever door)
- The safety lock is anti-panic/fire rated, activates the vertical rods and ensures automatic closure
- Suitable for doors with dimensions up to 1350x2880mm/leaf, mass up to 300kg/leaf, with fire rating EI<sub>2</sub>120 - REI120 and smoke resistance, handle protrusion of 67mm

### Use

The M14X emergency exit handle is to be applied on doors designated for emergency situations in which the people involved are accustomed to using safety exits and their opening devices, and who are therefore highly unlikely to be in a state of panic.

The active (main) leaf must also be equipped with an anti-panic or emergency device.


### Operating mode

The M14X emergency device is always used in combination with a second device for safety or emergency exits that is applied to the active leaf, and for this reason does not include external opening door furnishings.

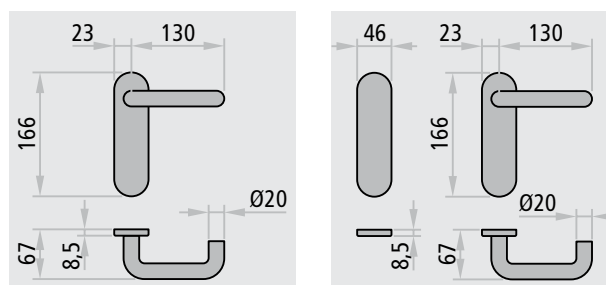
From the push side, opening is possible at any time by pushing on the handle, which causes the vertical rods to retract and at the same time pulls back the bolt of the active leaf's lock, unlatching both doors.

## M14, M14X CERTIFICATION

Suited for the inactive leaf of two-leaved doors with dimensions up to 1350x2880mm/leaf, mass up to 300kg/leaf.

	
Denomination	M14, M14X EMERGENCY EXIT DEVICE
Manufacturer	Ninz S.p.A. Corso Trento, 2/A I-38061 ALA (TN)/ITALY
Year application trademark	10
Nr. and year of the standard	EN 179:2008
Certifying body	0425
CE certificate Nr.	2148-CPD-2010
Classification	3 7 7 B 1 4 4 2 A C

- 1st Category of use very frequent
- 2nd Durability 200.000 cycles
- 3rd Door mass over 200 kg
- 4th Suitable for fire/smoke rated doors
- 5th Safety, suitable for evacuation routes
- 6th High corrosion resistance 240 h
- 7th Material safety 1000 N
- 8th Handle protrusion up to 100 mm
- 9th Activation type with lever handle
- 10th Suited for door: two-leaved, on the inactive leaf only



version for Univer/Proget door

version for Rever door

## SUPPLIED TOGETHER WITH THE DOOR

### For the inactive leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80mm entrance, vertical rods, upper locking device, upper strike plate.


*Included (in the package):* Nr. 1 lever handle in brushed stainless steel with galvanized steel installation plate and blank cover plate in brushed stainless steel (with external installation plate for Rever doors), Nr. 1 square spindle, Nr. 1 floor-mounted door catch, Nr. 1 carrier arm (for fire doors only), fastener screws, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of instructions for installation/maintenance.

## M14X KIT VERSION (SUPPLIED SEPARATELY FROM THE DOOR)

### KIT for the inactive leaf of two-leaved doors:

Please specify the door type - REVER, UNIVER or PROGET - in the order.

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 1 lever handle in brushed stainless steel with galvanized steel installation plate and blank cover plate in brushed stainless steel (with external installation plate for Rever doors), Nr. 1 square spindle, Nr. 1 upper locking device (for Rever and Univer multipurpose only), Nr. 1 carrier arm (excluding Rever and Univer multipurpose doors), fastener screws, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of instructions for installation/maintenance.

ATTESTATO DI CONFORMITÀ DIRETTIVA 89/106/CEE CERTIFICATE OF CONFORMITY DIRECTIVE 89/106/CEE		CE 0425
Questo certificato è rilasciato in conformità a quanto prescritto dall'Art.4 par.2 lettera b) del DPR 21 aprile 1993, n° 248 (Direttiva 89/106/CEE) ed attesta la conformità del prodotto di seguito identificato agli Art.1, Art.2 ed allegato A del DPR 21 aprile 1993, n° 248 (Direttiva 89/106/CEE).		
This certificate is issued in accordance with the requirements defined in Article 4 par.2 sub. b) of DPR 21st April 1993, n° 248 (89/106/EE Directive) and certifies the compliance of the product to art. 1, art. 2 and annex A of DPR 21st April 1993, n° 248 (89/106/EE Directive).		
ATTESTATO N°	2148 - CPD - 2010	CERTIFICATE N°
Organismo notificato	ICIM S.p.A. - Piazza Don Mapelli, 75 - 20099 SESTO SAN GIOVANNI	Notified Body
Dati Fabbricante	Sede legale: NINZ S.p.A. Corso Trento, 2/A 38061 ALA (TN) ITALY Unità operativa:	Manufacturer details
Dati prodotto	Tipologia: DISPOSITIVI PER USCITE DI EMERGENZA AZIONATI MEDIANTE MANIGLIA A LEVA O PIASTRA A SPINTA EMERGENCY EXIT DEVICES OPERATED BY A LEVER HANDLE OR PUSH PAD Denominazione: Dispositivo di emergenza serie "M14" "M14X" Controserrature antipánico art. AP020P, AP020U, 3201001.006 Dispositivo superiore art. 3105080, 3105024, 3305003 Risccontro asta art. 2401046, 2401044, 2401002 Boccola pavimento art. 2401001, 2401007, 3105091, 2401020 Aste verticali art. 3305015, 3305016, 3305002, 3305006 Comandi art. 3101001.008 (M14), 3101017.004 (M14X)	Product details
Sistema di attestazione della conformità: 1		System of attestation of conformity
Norma di riferimento: EN 179:2008		Standard reference
Classificazione: 3   7   7   B   1   4   4   2   A   C		Classification
Eventuali estensioni	Nessuna / None	Extensions
Eventuali condizioni di subordinazione della Certificazione CE	Nessuna / None	Condition of subordination of CE certification
Il presente attestato è valido esclusivamente per il prodotto indicato. Eventuali varianti da apportare devono essere approvate da ICIM S.p.A. The present certificate is valid only for the product described above. Every change, has to be approved by ICIM S.p.A.		
Data di emissione Issue date	Emissione corrente Current issue	Data di scadenza Expiring date
12/03/2010	28/04/2010	11/03/2020
 ICIM S.p.A. Il Presidente Ing. Tullio Badino		

**EXUS<sup>®</sup>**

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EXUS<sup>®</sup>



## PRESENTATION

### EXUS® panic bars

Ninz S.p.A. is a leader in fire doors, and has once again reasserted itself as a visionary company with a strong identity created by its continuous research into the design and technology of its own products, such as the new line of EXUS® panic bars.

The EXUS® panic bars are CE marked and according to European standard EN 1125:2008, which entered in effect January 01, 2010, and which prescribes a series of substantial changes that further extend the requirements for maximum safety and ease of opening.

### The KIT designed for your needs

When ordered separately from the door, the EXUS® series of panic bars is provided in elegant and functional KITS packaged for presentation in the most appropriate format for distribution.

Packaging in KITS ensures customers, installers and therefore the final users that they are receiving a complete anti-panic system with fully corresponding parts which are all CE certified.

### Finishing

Attention to detail and proportions are highlighted by select materials and finishing.

In addition to the **black PLASTIC** version combined with **anodized ALUMINUM** bars, new combinations include the all **brushed STAINLESS STEEL** version and the **polished chromed ALUMINUM** version combined with the **anodized ALUMINUM** bar. Many other color and surface combinations are possible for equally aesthetic solutions. The particular aesthetics of soft forms is one of the exclusive advantages of **EXUS® panic bars**, representing the fruit of designs generated in collaboration with Studio MM Design, which has been working with the company for many years.

### Certifications and replacements

Given the importance of maintaining the entire system's CE conformity, special attention has been paid to replacement parts, which have been subjected to testing in accordance with the EN 1125:2008 standard due to their pivotal role in maintaining CE certification.

The only way to ensure that the products maintain their original characteristics over time is by using **original NINZ replacement parts**.

For this reason, the instructions for **EXUS® panic bars** include additional indications regarding proper installation and maintenance plus a exploded assembly drawing that specifies every smallest detail of the certified system with all of the references required for ordering replacement parts.

With the new EXUS® panic bar, NINZ S.p.A. demonstrates its willingness to believe in market development by investing in designs and company image in order to endow its own products with added value while maintaining highly competitive quality-price ratios.



Black PLASTIC handle

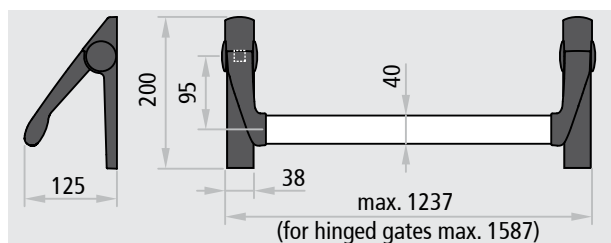


Brushed STAINLESS STEEL handle

### NOTE

By default external door furniture is provided with the same finishing as the panic bar.

- Newly designed product with state of the art technological concept
- Available several in color and surface combinations: brushed stainless steel for the lever arms and the bar, or aluminum with polished chrome lever arms and anodized aluminum bar, and finally the classic ever-green combination - black plastic lever arms with anodized aluminum bar
- Certified for internal lock with 40 or 65mm entrances for single leaves or active leaves, with 30 or 80mm entrance for inactive leaves and with square spindle rotation of up to 45°
- Possibility of locking by key on the bar side as well
- Reversible for Right or Left mounting
- Protrusion 125mm
- Proposed together with the door or separately in a complete KIT packaged in a black/yellow box
- Label applied to the packaging to identify the product's characteristics
- Wide range of customizations: colored bar, colored or stainless steel handles, lock with access control mechanisms, special coded or mastered cylinders



Suited for one-leaved doors or the active and inactive leaves of two-leaved doors with dimensions up to 1350x2880mm/leaf, mass up to 300kg/leaf.



<b>Denomination</b>	EXUS PANIC BAR
<b>Manufacturer</b>	Ninz S.p.A. Corso Trento, 2/A I-38061 ALA (TN)/ITALY
<b>Year application trademark</b>	08
<b>Nr. and year of the standard</b>	EN 1125:2008
<b>Certifying body</b>	0425
<b>C € certificate Nr.</b>	0425 CPD 1228
<b>Classification</b>	<b>3 7 7 B 1 3 2 1 A A</b>

- 
- | Rank | Category                               |
|------|--|
| 1st  | Category of use very frequent          |
| 2nd  | Durability 200.000 cycles              |
| 3rd  | Door mass over 200 kg                  |
| 4th  | Suitable for fire/smoke rated doors    |
| 5th  | Safety, suitable for evacuation routes |
| 6th  | High corrosion resistance 96 h         |
| 7th  | Material safety 1000 N                 |
| 8th  | Bar protrusion up to 150 mm            |
| 9th  | Activation type with push bar          |
| 10th | Suited for one- or two-leaved doors    |



EXUS® is a registered trademark owned by Ninz S.p.A.

Also suited for doors with fire ratings:



## EXUS® LP IN BLACK PLASTIC

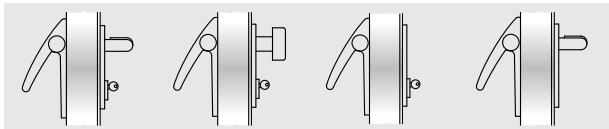


### Description

The EXUS LP panic bar consists of an anodized aluminum horizontal bar that inserts into the lever arms attached to the mechanisms which activate the lock.

- Reversible for right or left opening
- For application to single leaf and two-leaved doors
- Suited for Rever/Univer/Proget doors and other types of panic exit doors
- The horizontal bar is made of extruded anodized aluminum with an elliptical cross-section measuring 40x20mm and a length of 1150mm
- Two black plastic lever arms with galvanized steel core
- The two mechanisms are made of galvanized steel with black plastic carter covers, one of which has an EXIT label that identifies the lock side
- The lock is anti-panic/fire rated for Euro profile cylinders
- The door furnitures and related cover plates are made of black plastic, while the installation plate is made of galvanized steel
- DC version with cylinder to pass

## VERSIONS AVAILABLE

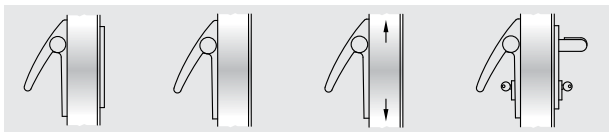


BM

BSP

BS

BMC

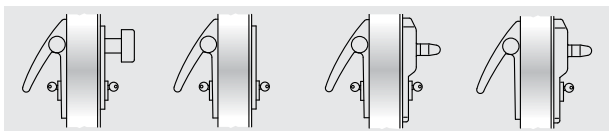


BC

B

A

DC BM



DC BSP

DC BS

DC ELM

ELM

## VARIATIONS ON REQUEST (see dedicated page)

- Aluminum bar painted in RAL colors
- External BM, BSP, BS, BMC and BC door furnitures in brushed stainless steel
- External BM and BSP door furnitures painted in RAL colors
- MAC1 panic lock with access control system, combinable with the BM and DC BM versions
- Mastered or coded cylinders
- Microswitch and cable sleeve for signaling when the door is open

## EXUS LP (SUPPLIED WITH THE DOOR)

### For single leaf or the active leaf of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65mm entrance and the strike box lock insert

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 black plastic external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 cylinder to pass with 3 keys (DC version only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC, B (for Proget doors only), DC BM, DC BSP, DC BS, DC ELM, ELM

ELM electric handle: see the dedicated pages

### For the inactive leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (for fire doors only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

## EXUS LP KIT

### (SUPPLIED SEPARATELY FROM THE DOOR)

#### KIT for single leaf or the active leaf of two-leaved doors:

Please specify leaf thickness and door type - REVER, UNIVER or PROGET - in the order

*KIT contents:* Nr. 1 anti-panic lock with 65mm entrance, Nr. 1 strike box lock insert, Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 black plastic external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 cylinder to pass with 3 keys (DC version only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC, DC BM, DC BSP, DC BS

#### KIT for the inactive leaf of two-leaved doors, suited for REVER, UNIVER and PROGET fire and multipurpose doors (produced after 01.01.2005):

specify door type on the order form

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 upper re-latch device, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (excluding REVER and UNIVER MULTIPURPOSE), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

#### KIT for the inactive leaf of two-leaved doors and suited for other types of multipurpose doors and for substitution of non CE marked panic bars (PROGET doors):

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 upper re-latch device, Nr. 1 upper strike plate, vertical rods, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

## EXUS® LA IN ALUMINUM

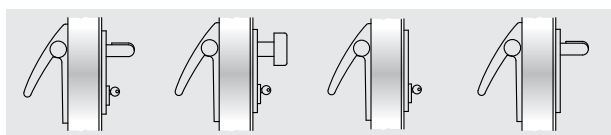


### Description

The EXUS LA panic bar consists of an anodized aluminum horizontal bar that inserts into lever arms attached to the mechanisms which activate the lock.

- Reversible for right or left opening
- For application to single leaf and two-leaved doors
- Suited for Rever/Univer/Proget doors and other types of panic exit doors
- The horizontal bar is made of extruded anodized aluminum with an elliptical cross-section measuring 40x20mm and a length of 1150mm
- The two lever arms are made of an aluminum alloy with a polished chrome finish
- The two mechanisms are made of galvanized steel with aluminum alloy carter covers with a polished chrome finish, one of which has an EXIT label to identify the lock side
- The lock is anti-panic/fire rated for Euro profile cylinders
- The door furnishings and related cover plates are made of AISI 304 brushed stainless steel, while the installation plate is made of galvanized steel
- The arms and carter covers are finished with tri-valent chrome in compliance with the ROHS regulation
- DC version with cylinder to pass

## VERSIONS AVAILABLE

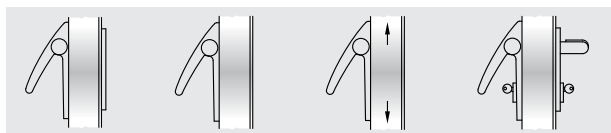


BM

BSP

BS

BMC

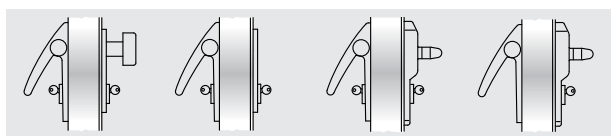


BC

B

A

DC BM



DC BSP

DC BS

DC ELM

ELM

## VARIATIONS ON REQUEST (see dedicated page)

- Aluminum bar painted in RAL colors
- MAC1 panic lock with access control system, combinable with the BM and DC BM versions
- Mastered or coded cylinders
- Microswitch and cable sleeve for signaling when the door is open

## EXUS LA (SUPPLIED WITH THE DOOR)

### For single leaf or the active leaf of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65mm entrance and the strike box lock insert

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 2 polished chrome aluminum lever arms, Nr. 1 anodized aluminum bar, Nr. 1 stainless steel external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 cylinder to pass with 3 keys (DC version only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC, B (for Proget doors only), DC BM, DC BSP, DC BS, DC ELM, ELM

ELM electric handle: see the dedicated pages

### For the inactive leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 2 polished chrome aluminum lever arms, Nr. 1 anodized aluminum bar, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (for fire doors only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

## EXUS LA KIT

### (SUPPLIED SEPARATELY FROM THE DOOR)

#### KIT for single leaf or the active leaf of two-leaved doors:

Please specify leaf thickness and door type - REVER, UNIVER or PROGET - in the order

*KIT contents:* Nr. 1 anti-panic lock with 65mm entrance, Nr. 1 strike box lock insert, Nr. 2 mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 2 polished chrome aluminum lever arms, Nr. 1 anodized aluminum bar, Nr. 1 stainless steel external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 cylinder to pass with 3 keys (DC version only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC, DC BM, DC BSP, DC BS

#### KIT for the inactive leaf of two-leaved doors, suited for REVER, UNIVER and PROGET fire and multipurpose doors (produced after 01.01.2005):

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 2 polished chrome aluminum lever arms, Nr. 1 anodized aluminum bar, Nr. 1 upper re-latch device, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (excluding REVER and UNIVER MULTIPURPOSE), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

#### KIT for the inactive leaf of two-leaved doors and suited for other types of multipurpose doors and for substitution of non CE marked panic bars (PROGET doors):

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 mechanisms, Nr. 2 polished chromed aluminum carter covers, Nr. 2 chromed aluminum lever arms, Nr. 1 anodized aluminum bar, Nr. 1 upper re-latch device, Nr. 1 upper strike plate, vertical rods, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

### NOTE

It is not advisable to use the anti-panic bar EXUS LA for marine environments or in particularly humid areas. For these situations the use of the anti-panic bar EXUS LX is recommended.

## EXUS® LX IN STAINLESS STEEL

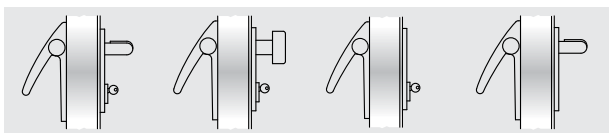


### Description

The entire EXUS LX panic bar is made of stainless steel, and consists of a horizontal bar that inserts into lever arms attached to the mechanisms which activate the lock.

- Maximum corrosion resistance and noteworthy robustness of the entire set
- Optimal aesthetic appearance
- Reversible for right or left opening
- For application to single leaf and two-leaved doors
- Suited for Rever/Univer/Proget doors and other types of panic exit doors
- The horizontal bar is made of AISI 304 brushed stainless steel with an elliptical cross-section measuring 40x20mm, length of 1150mm
- The two lever arms are made of AISI 304 brushed stainless steel
- The two mechanisms are made of AISI 304 stainless steel
- The two carter covers are made of AISI 304 brushed stainless steel, and one is labeled with EXIT to identify the lock side
- The lock is anti-panic/fire rated for Euro profile cylinders
- The door furnitures and related cover plates are made of AISI 304 brushed stainless steel, while the installation plate is made of galvanized steel
- DC version with cylinder to pass

## VERSIONS AVAILABLE

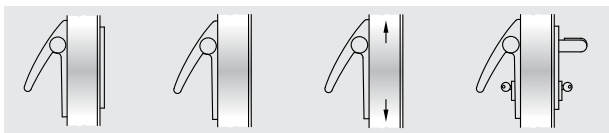


BM

BSP

BS

BMC

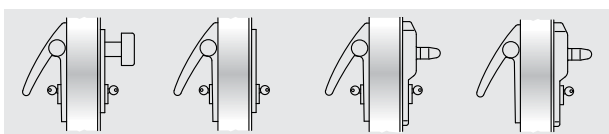


BC

B

A

DC BM



DC BSP

DC BS

DC ELM

ELM

## VARIATIONS ON REQUEST (see dedicated page)

- MAC1 panic lock with access control system, combinable with the BM and DC BM versions
- Mastered or coded cylinders
- Microswitch and cable sleeve for signaling when the door is open

## EXUS LX (SUPPLIED WITH THE DOOR)

### For single leaf or the active leaf of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65mm entrance and the strike box lock insert

*Included (in the package):* Nr. 2 stainless steel mechanisms, Nr. 2 stainless steel carter covers, Nr. 2 stainless steel lever arms, Nr. 1 stainless steel bar, Nr. 1 stainless steel external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 cylinder to pass with 3 keys (DC version only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC, B (for Proget doors only), DC BM, DC BSP, DC BS, DC ELM, ELM

ELM electric handle: see the dedicated pages

### For the inactive leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 stainless steel mechanisms, Nr. 2 stainless steel carter covers, Nr. 2 stainless steel lever arms, Nr. 1 stainless steel bar, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (for fire doors only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

## EXUS LX KIT

### (SUPPLIED SEPARATELY FROM THE DOOR)

#### KIT for single leaf or the active leaf of two-leaved doors:

Please specify leaf thickness and door type - REVER, UNIVER or PROGET - in the order

*KIT contents:* Nr. 1 anti-panic lock with 65mm entrance, Nr. 1 strike box lock insert, Nr. 2 stainless steel mechanisms, Nr. 2 stainless steel carter covers, Nr. 2 stainless steel lever arms, Nr. 1 stainless steel bar, Nr. 1 stainless steel external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 cylinder to pass with 3 keys (DC version only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC, DC BM, DC BSP, DC BS

#### KIT for the inactive leaf of two-leaved doors, suited for REVER, UNIVER and PROGET fire and multipurpose doors (produced after 01.01.2005):

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 stainless steel mechanisms, Nr. 2 stainless steel carter covers, Nr. 2 stainless steel lever arms, Nr. 1 stainless steel bar, Nr. 1 upper re-latch device, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (excluding REVER and UNIVER MULTIPURPOSE), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

#### KIT for the inactive leaf of two-leaved doors and suited for other types of multipurpose doors and for substitution of non CE marked panic bars (PROGET doors):

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 stainless steel mechanisms, Nr. 2 stainless steel carter covers, Nr. 2 stainless steel lever arms, Nr. 1 stainless steel bar, Nr. 1 upper re-latch device, Nr. 1 upper strike plate, vertical rods, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

# KIT EXUS® LP and LA for glazed doors

Panic bar for internal locks - CEN 1125:2008

**NINZ**  
FIREDOORS

## EXUS® LP KIT IN BLACK PLASTIC



### Description

The EXUS LP panic bar consists of an anodized aluminum horizontal bar that inserts into the lever arms attached to the mechanisms which activate the lock.

- Reversible for right or left opening
- For application to the glazed door locks on single or two-leaved doors
- The horizontal bar is made of extruded anodized aluminum with an elliptical cross-section measuring 40x20mm and a length of 1150mm
- Two black plastic lever arms with galvanized steel core
- The two mechanisms are made of galvanized steel with black plastic carter covers, one of which has an EXIT label that identifies the lock side
- The lock is anti-panic/fire rated for glass door locking mechanisms and uses Euro profile cylinders
- The door furnitures are made of glossy black resin

## VERSIONS AVAILABLE

### KIT for single leaf or the active leaf of two-leaved doors:

**KIT contents:** Nr. 1 anti-panic lock with 40mm entrance, Nr. 1 strike box lock insert, Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 external handle with black resin rosette, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

Article Nr.	Bar KIT	Thicknesses up to
4204306.001	EX LP BM V	70 mm
4204306.002	EX LP DC BM V	70 mm

DC - Versions with cylinder to pass (cylinder not included), AISI stainless steel mechanisms

### KIT for the inactive leaf of two-leaved doors:

**KIT contents:** Nr. 1 anti-panic safety lock with 30mm entrance, Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 upper re-latch device, Nr. 1 upper strike box, Nr. 1 upper rod, Nr. 1 lower rod, Nr. 1 extension rod, Nr. 1 floor-mounted floor catch, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

Article Nr.	Bar KIT	Thicknesses up to
4204306.003	EX LP A V	70 mm

## EXUS® LA KIT IN ALUMINUM



### Description

The EXUS LA panic bar consists of an anodized aluminum horizontal bar that inserts into the lever arms attached to the mechanisms which activate the lock.

- Reversible for right or left opening
- For application to the glazed door locks on single or two-leaved doors
- The horizontal bar is made of extruded anodized aluminum with an elliptical cross-section measuring 40x20mm and a length of 1150mm
- The two lever arms are made of an aluminum alloy with a polished chrome finish
- The two mechanisms are made of galvanized steel with aluminum alloy carter covers with polished chrome finishing, one of which has an EXIT label to identify the lock side
- The lock is anti-panic/fire rated for glass door locking mechanisms and uses Euro profile cylinders
- The door furnitures are made of brushed stainless steel
- The arms and carters are finished with tri-valent chrome in compliance with the ROHS regulations

### NOTE

It is not advisable to use the anti-panic bar EXUS LA for marine environments or in particularly humid areas. For these situations the use of the anti-panic bar EXUS LX is recommended.

## VERSIONS AVAILABLE

### KIT for single leaf or the active leaf of two-leaved doors:

**KIT contents:** Nr. 1 anti-panic lock with 40mm entrance, Nr. 1 strike box lock insert, Nr. 2 mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 2 polished chrome aluminum lever arms, Nr. 1 anodized aluminum bar, Nr. 1 external handle with stainless steel rosette, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

Article Nr.	Bar KIT	Thicknesses up to
4204306.004	EX LA BM V	70 mm
4204306.005	EX LA DC BM V	70 mm

DC - Versions with cylinder to pass (cylinder not included), AISI stainless steel mechanisms

### KIT for the inactive leaf of two-leaved doors:

**KIT contents:** Nr. 1 anti-panic safety lock with 30mm entrance, Nr. 2 mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 2 polished chrome aluminum lever arms, Nr. 1 anodized aluminum bar, Nr. 1 upper re-latch device, Nr. 1 upper strike plate, Nr. 1 upper rod, Nr. 1 lower rod, Nr. 1 extension rod, Nr. 1 recessed floor-mounted floor catch, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

Article Nr.	Bar KIT	Thicknesses up to
4204306.006	EX LA A V	70 mm

# KIT EXUS® LX for glazed doors

Panic bar for internal locks - CEN 1125:2008



## EXUS® LX KIT IN STAINLESS STEEL



### Description

The entire EXUS LX panic bar is made of stainless steel, and consists of a horizontal bar that inserts into the lever arms attached to the mechanisms which activate the lock.

- Maximum corrosion resistance and noteworthy robustness of the entire set
- Optimal aesthetic appearance
- Reversible for right or left opening
- For application to the glazed door locks on single or two-leaved doors
- The horizontal bar is made of AISI 304 brushed stainless steel with a 40x20mm elliptical cross-section and a length of 1150mm
- The two lever arms are made of AISI 304 brushed stainless steel
- The two mechanisms are made of AISI 304 stainless steel
- The two carter covers and cover caps are made of AISI 304 brushed stainless steel, and one is labeled with EXIT to identify the lock side
- The lock is anti-panic/fire rated for glazed door locks and uses Euro profile cylinders
- The door furnitures are made of brushed stainless steel

## VERSIONS AVAILABLE

### KIT for single leaf or the active leaf of two-leaved doors:

**KIT contents:** Nr. 1 anti-panic lock with 40mm entrance, Nr. 1 strike box lock insert, Nr. 2 stainless steel mechanisms, Nr. 2 stainless steel carter covers, Nr. 2 stainless steel lever arms, Nr. 1 stainless steel bar, Nr. 1 external handle with stainless steel rosette, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

Article Nr.	Bar KIT	Thicknesses up to
4204306.007	EX LX BM V	70 mm
4204306.008	EX LX DC BM V	70 mm

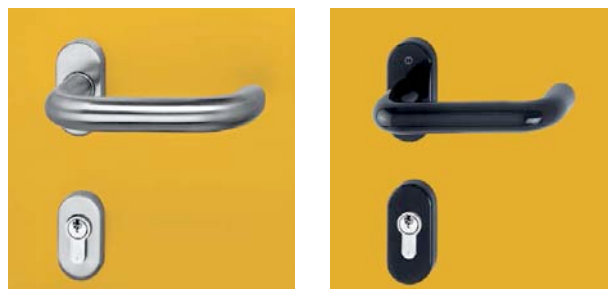
DC - Versions with cylinder to pass (cylinder not included)

### KIT for the inactive leaf of two-leaved doors:

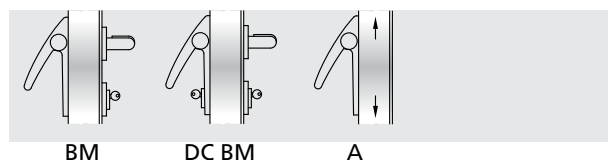
**KIT contents:** Nr. 1 anti-panic safety lock with 30mm entrance, Nr. 2 stainless steel mechanisms, Nr. 2 stainless steel carter covers, Nr. 2 stainless steel lever arms, Nr. 1 stainless steel bar, Nr. 1 upper re-latch device, Nr. 1 upper strike plate, Nr. 1 upper rod, Nr. 1 lower rod, Nr. 1 extension rod, Nr. 1 floor-mounted floor catch, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

Article Nr.	Bar KIT	Thicknesses up to
4204306.009	EX LX A V	70 mm

## DOOR FURNITURES FOR GLAZED DOORS



Article Nr.	Description
4211104.002	Stainless steel handle with rosette, brushed finish, standard for KIT EXUS LA and LX
4211104.001	Glossy black resin handle with rosette, standard for EXUS LP



## VARIATIONS ON REQUEST (see dedicated page)

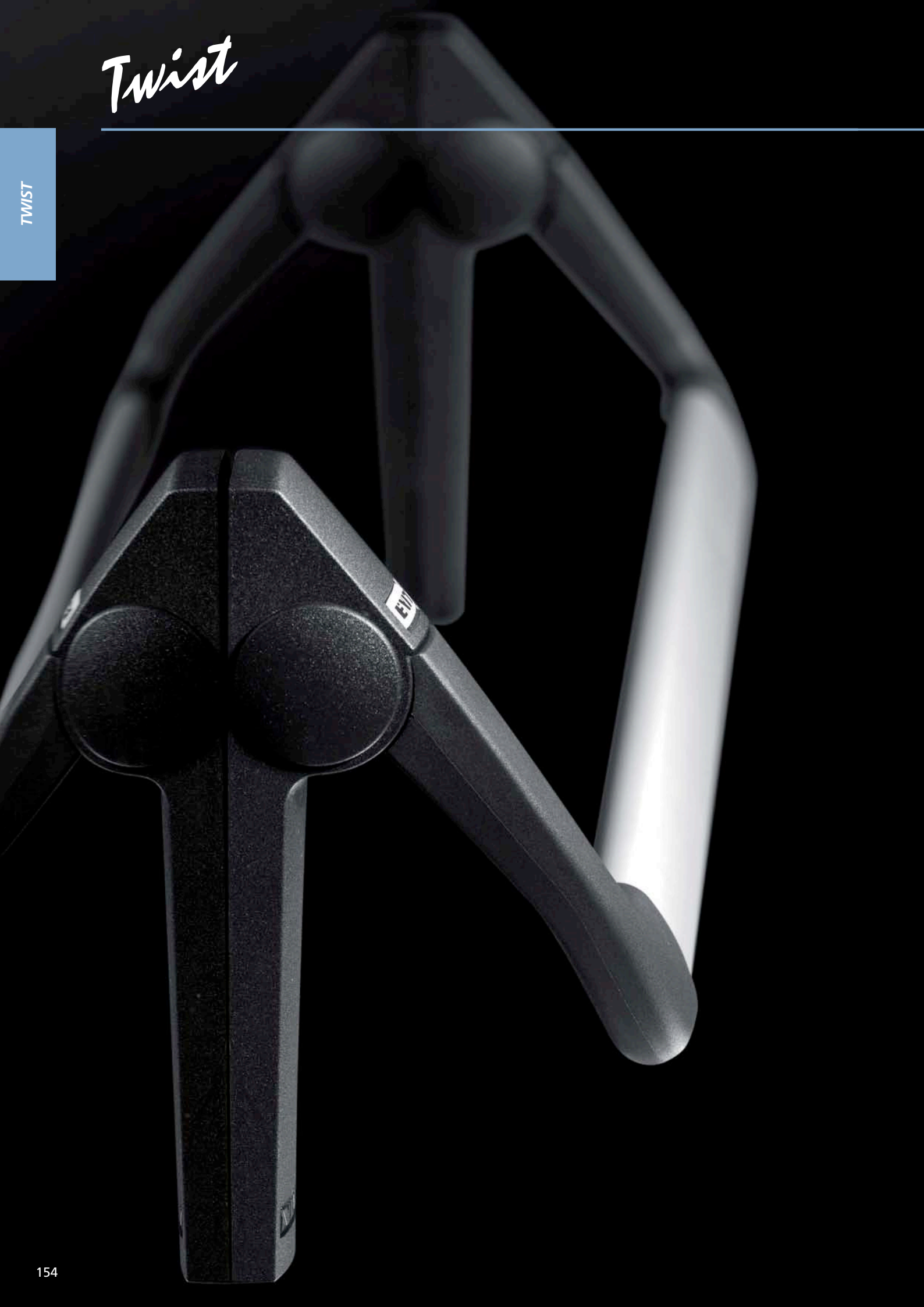
- Microswitch and cable sleeve for signaling when the door is open
- The horizontal bar of LP and LA versions can be painted an RAL tint
- The handle of LP versions can be in brushed stainless steel

### NOTE

It is obligatory for inactive leaves to include a carrier arm to ensure correct functioning of the closing regulator and, if necessary, also to keep the two leaves from getting blocked when opened simultaneously.

# Twist

TWIST



### PRESENTATION

#### TWIST panic bars

TWIST panic bars are **CE** marked in accordance with European standard EN 1125:2008, which entered in effect January 01, 2010, and which prescribes a series of substantial changes that further extend the requirements for maximum safety and ease of opening.

#### The KIT designed for your needs

When ordered separately from the door, the **TWIST** series of panic bars is provided in elegant and functional KITS packaged for presentation in the most appropriate format for distribution.

Packaging in KITS ensures customers, installers and therefore the final users that they are receiving a complete anti-panic system with fully corresponding parts that are all **CE** certified.

#### Finishing

The **TWIST** panic bar series is proposed in a **black PLASTIC** version combined with an **anodized ALUMINUM** bar. On request, the bar and the door furniture may be painted in RAL colors, opening up an infinite variety of aesthetic solutions.

#### Certifications and replacements

Given the importance of maintaining the entire system's **CE** conformity, special attention has been paid to replacement parts, which have been subjected to testing in accordance with the EN 1125:2008 standard due to their pivotal role in maintaining **CE** certification.

The only way to ensure that the products maintain their original characteristics over time is by using **original NINZ replacement parts**.

For this reason, the instructions for **TWIST** panic bars include additional indications regarding proper installation and maintenance plus an explosion assembly drawing that specifies every smallest detail of the certified system with all of the references required for ordering replacement parts.

With the new packaging of the TWIST panic bar, NINZ S.p.A. demonstrates its intent to believe in market development by investing in designs and company image in order to endow its own products with added value while maintaining highly competitive quality-price ratios.



Black PLASTIC handle

#### NOTE

The TWIST exit device series is combined with a black PLASTIC handle.

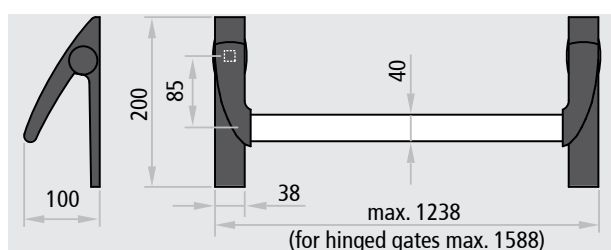
# TWIST - Features, certifications

Panic bar

**NINZ**  
FIREDOORS

## FEATURES

- The classic line of panic bars, an ever-green, available in the standard combination with black plastic arms/caps and anodized aluminum bar
- Certified for internal locks with a 65mm entrance for single leaves or active leaves, and with an 80mm entrance for inactive leaves
- Reversible for mounting on Right or Left doors
- Protrusion 100mm
- Proposed together with the door or separately in a complete KIT packaged in a single black/green box
- Packaging is labeled to identify product characteristics
- Wide range of customizations: colored bar, colored or stainless steel handles, locks with access control systems, special coded or mastered cylinders



Also suited for doors with fire ratings:

EI<sub>120</sub> REI 120 smoke resistant



## CERTIFICATION

Suited for one-leaved doors or the active and inactive leaves of two-leaved doors with dimensions up to 1350x2880mm/leaf, mass up to 300kg/leaf.

<b>Denomination</b>	TWIST PANIC BAR
<b>Manufacturer</b>	Ninz S.p.A. Corso Trento, 2/A I-38061 ALA (TN)/ITALY
<b>Year application trademark</b>	08
<b>Nr. and year of the standard</b>	EN 1125:2008
<b>Certifying body</b>	0425
<b>CE certificate Nr.</b>	0425 CPD 1228
<b>Classification</b>	<b>3 7 7 B 1 3 2 1 A A</b>

- 1st Category of use very frequent
- 2nd Durability 200.000 cycles
- 3rd Door mass over 200 kg
- 4th Suitable for fire/smoke rated doors
- 5th Safety, suitable for evacuation routes
- 6th High corrosion resistance 96 h
- 7th Material safety 1000 N
- 8th Bar protrusion up to 150 mm
- 9th Activation type with push bar
- 10th Suitable for one- or two-leaved doors

		<div>ATTESTATO DI CONFORMITÀ</div> <div>CERTIFICATE OF CONFORMITY</div> <div>0425</div>	
ATTESTATO N°		0425 CPD 1228	
Organismo notificato ICIM S.p.A. - Piazza Don Mapelli, 75 - 20099 Sesto San Giovanni (MI) ITALY		Notified Body Identification number: 0425	
Dati Fabbricante Dato legale: NINZ S.p.A. Corso Trento, 2/A - 38061 ALA (TN) ITALY Unità operativa:		Manufacturer (legal office) (operational unit)	
Dati prodotto Tipologia		Product Type	
DISPOSITIVI ANTIPANICO PER USCITE DI SICUREZZA AZIONATI MEDIANTE UNA BARRA ORIZZONTALE PANIC EXIT DEVICES			
Denominazione	Unipulsivo antipanco Scatole a 1/2/3/4 vie Corrono a 1/2/3/4 vie Dispositivi a 1/2/3/4 vie Resistenti alla Resistenza alla Ade vertici (Resistenza testata) Condotto esterni	serie "TWIST" "EXUS LP" "EXUS LA" "EXUS LP" art. 441010, 441011, 441012, 441013, 441014, 441015, 441016, 441017, 441018, 441019, 441020, 441021, 441022, 441023, 441024, 441025, 441026, 441027, 441028, 441029, 441030, 441031, 441032, 441033, 441034, 441035, 441036, 441037, 441038, 441039, 441040, 441041, 441042, 441043, 441044, 441045, 441046, 441047, 441048, 441049, 441050, 441051, 441052, 441053, 441054, 441055, 441056, 441057, 441058, 441059, 441060, 441061, 441062, 441063, 441064, 441065, 441066, 441067, 441068, 441069, 441070, 441071, 441072, 441073, 441074, 441075, 441076, 441077, 441078, 441079, 441080, 441081, 441082, 441083, 441084, 441085, 441086, 441087, 441088, 441089, 441090, 441091, 441092, 441093, 441094, 441095, 441096, 441097, 441098, 441099, 441100, 441101, 441102, 441103, 441104, 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## TWIST IN BLACK PLASTIC

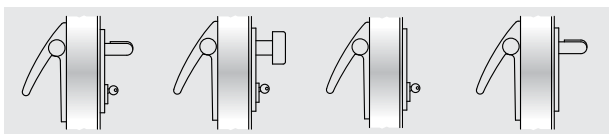


### Description

The TWIST plastic panic bar consists of an anodized aluminum horizontal bar that inserts into the lever arms attached to the mechanisms used to activate the lock.

- Reversible for right or left opening
- For application to single leaf and two-leaved doors
- Suited for Rever/Univer/Proget doors and other types of panic exit doors
- The horizontal bar is made of extruded anodized aluminum with an elliptical cross-section measuring 40x20mm and a length of 1150mm
- Two black plastic lever arms with galvanized steel core
- The two mechanisms are made of galvanized steel with black plastic carter covers, one of which has an EXIT label that identifies the lock side
- The lock is anti-panic/fire resistance for Euro profile cylinders
- The door furnitures and the cover plates are made of black plastic, while the installation plate is made of galvanized steel

## VERSIONS AVAILABLE

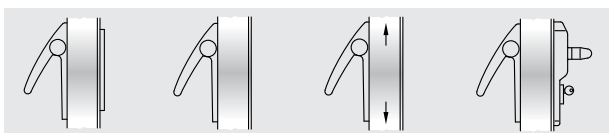


BM

BSP

BS

BMC



BC

B

A

ELM

## VARIATIONS ON REQUEST (see dedicated page)

- Aluminum bar painted in RAL colors
- External BM, BSP, BS, BMC and BC commands in brushed stainless steel
- External BM and BSP commands painted in RAL colors
- MAC1 panic lock with access control mode, combinable with the BM version
- Mastered or encrypted cylinders
- Microswitch and cable sleeve for signaling when the door is open

## TWIST (SUPPLIED WITH THE DOOR)

### For single leaf or the active leaf of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65mm entrance and the strike box lock insert

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 black plastic external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC, B (for Proget doors only), ELM

ELM electric handle: see the dedicated pages

### For the inactive leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 floor-mounted door catch, Nr. 1 carrier arm (for fire doors only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

## TWIST KIT

### (SUPPLIED SEPARATELY FROM THE DOOR)

### KIT for single leaf or the active leaf of two-leaved doors:

Please specify leaf thickness and door type - REVER, UNIVER or PROGET - in the order

*KIT contents:* Nr. 1 anti-panic lock with 65mm entrance, Nr. 1 strike box lock insert, Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 black plastic external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC

### KIT for the inactive leaf of two-leaved doors, suited for REVER, UNIVER and PROGET fire and multipurpose doors (produced after 01.01.2005):

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 upper re-latch device, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (excluding REVER and UNIVER MULTIPURPOSE), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

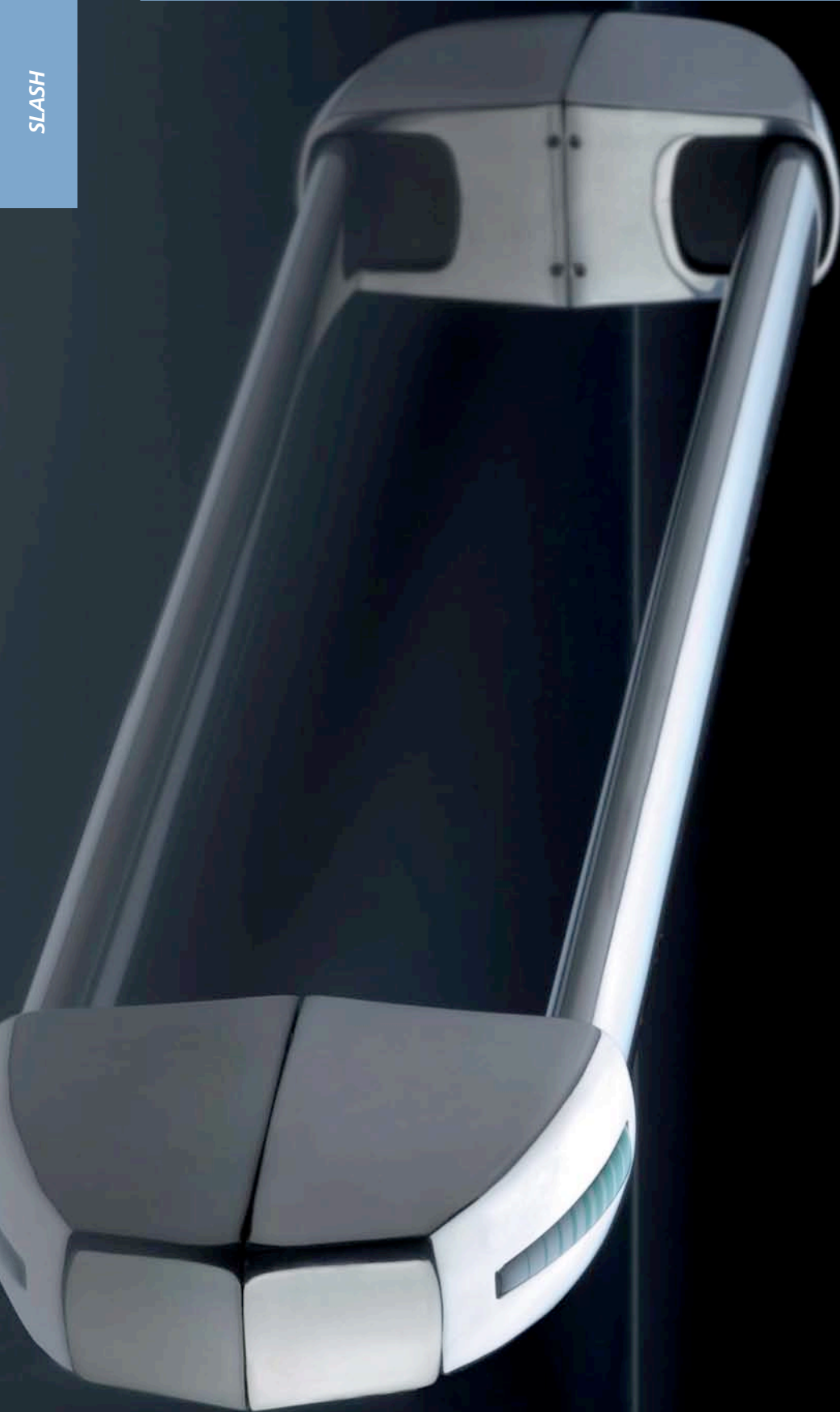
### KIT for the inactive leaf of two-leaved doors and suited for other types of multipurpose doors and for substitution of non CE marked panic bars (PROGET doors):

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 upper re-latch device, Nr. 1 upper strike plate, vertical rods, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

SLASH

SLASH



### PRESENTATION

#### SLASH panic bars

Ninz S.p.A. is a leader in fire doors, and has once again reasserted itself as a visionary company with a strong identity created by its continuous research into the design and technology of its own products, such as the new line of SLASH panic bars.

All SLASH handles are **CE** marked and pre-certified according to European standard EN 1125:2008, which entered in effect January 01, 2010, to prescribe a series of substantial changes that further extend the requirements for maximum safety and ease of opening.

#### The KIT designed for your needs

When ordered separately from the door, the **SLASH** series of panic bars is provided in elegant and functional KITS packaged for presentation in the most appropriate distribution format.

Packaging in KITS ensures customers, installers and therefore the final users that they are receiving a complete anti-panic system with fully corresponding parts that are all **CE** certified.

#### Finishing

In addition to the **black PLASTIC** version combined with **anodized ALUMINUM** bars, new combinations include the **brushed STAINLESS STEEL** version and the **polished chromed ALUMINUM** version combined with the **anodized ALUMINUM** bar. Many other color and surface combinations are possible for equally aesthetic solutions.

#### Certifications and replacements

Given the importance of maintaining the entire system's **CE** conformity, special attention has been paid to replacement parts, which have been subjected to testing in accordance with the EN 1125:2008 standard due to their pivotal role in maintaining **CE** certification.

The only way to ensure that the products maintain their original characteristics over time is by using **original NINZ replacement parts**.

For this reason, the instructions for **SLASH** panic bars include additional indications regarding proper installation and maintenance plus a blow-up drawing that specifies every smallest detail of the certified system with all of the references required for ordering replacement parts.

With the expansion of the line and the new packaging of the SLASH panic bar, NINZ S.p.A. demonstrates its faith in market development by investing in designs and company image in order to endow its fire doors and the series of accessories with added value while continuing to maintain highly competitive quality-price ratios.



Black PLASTIC handle



Brushed STAINLESS STEEL handle

#### NOTE

By default external door furniture is provided with the same finishing as the panic bar.

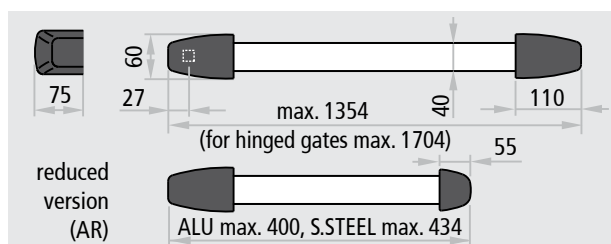
# SLASH - Features, certifications

Panic bar

**NINZ**  
FIREDOORS

## FEATURES

- Panic bar that stands out from the others due to its particular design and the rounded shapes of the carter. This characteristic not only improves aesthetic appeal, but it also eliminates any risk of injury during use
- Available in different color and surface combinations, in brushed stainless steel for the cover carter and the bar, or with polished chromed aluminum carter and anodized aluminum bar, and then there is always the classic combination that is still in fashion - black plastic carter with anodized aluminum bar
- Certified for internal locks with a 65mm entrance for single leaves or active leaves, and with an 80mm entrance for inactive leaves
- Reversible for Right or Left mounting
- Protrusion 75mm
- Proposed together with the door or separately in a complete KIT packaged in a single black/orange box
- Label applied to the packaging to identify the product's characteristics
- Wide range of customizations: colored bar, colored or stainless steel handles, lock with access control mechanisms, special encrypted or mastered cylinders



## CERTIFICATION

Suited for one-leaved doors or the active and inactive leaves of two-leaved doors with dimensions up to 1350x2880mm/leaf, mass up to 300kg/leaf.

CE	
Denomination	SLASH PANIC BAR
Manufacturer	Ninz S.p.A. Corso Trento, 2/A I-38061 ALA (TN)/ITALY
Year application trademark	08
Nr. and year of the standard	EN 1125:2008
Certifying body	0425
CE certificate Nr.	1308-CPD-2007
Classification	<b>3 7 7 B 1 3 2 2 B A</b>

- 1st Category of use very frequent
- 2nd Durability 200.000 cycles
- 3rd Door mass over 200 kg
- 4th Suitable for fire/smoke rated doors
- 5th Safety, suitable for evacuation routes
- 6th High corrosion resistance 96 h
- 7th Material safety 1000 N
- 8th Bar protrusion up to 100 mm
- 9th Activation type with touch bar
- 10th Suitable for one- or two-leaved doors



Also suited for doors with classifications up to:

EI<sub>2</sub>120 
 REI 120 
 smoke resistant



ATTESTATO DI CONFORMITÀ DIRETTIVA 89/106/CEE CERTIFICATE OF CONFORMITY DIRECTIVE 89/106/CEE			CE 0425																														
Questo certificato è rilasciato in conformità a quanto prescritto dall'Art.8 par.2 lettera b) del DPR 21 aprile 1993, n°246 (Direttiva 89/106/CEE) ed attesta la conformità del prodotto di seguito identificato agli Art.1, Art.2 ed allegato A del DPR 21 aprile 1993, n°246 (Direttiva 89/106/CEE). This certificate has been issued in conformity to what prescribed by the Art.6 par.2 letter b) of the DPR 21/04/1993, n°246 (Directive 89/106/EEC) and certifies the conformity of the product described below to the Art.1, Art.2 and attachment A of DPR 21/04/1993, n°246 (Directive 89/106/EEC).																																	
ATTESTATO N°	1308 - CPD - 2007	CERTIFICATE N°																															
Organismo notificato	ICIM S.p.A. - Piazza Don Mapelli, 75 - 20099 Sesto San Giovanni (MI) ITALY	Notified Body	Identification number: 0425																														
Dati Fabbricante	NINZ S.p.A. Corso Trento, 2/A 38061 ALA (TN) ITALY	Manufacturer	Head office Operative unit																														
<table border="1"> <thead> <tr> <th>Dati prodotto</th> <th>Product Type</th> </tr> </thead> <tbody> <tr> <td>Tipologia</td> <td>DISPOSITIVI ANTIPANICO PER USCITE DI SICUREZZA AZIONATI MEDIANTE UNA BARRA ORIZZONTALE PANIC EXIT DEVICES</td> </tr> <tr> <td>Denominazione</td> <td>Dispositivo antipanico</td> </tr> <tr> <td>Serratura antipanico</td> <td>art. AP16/18, SCA 1 3201001.019020, MAC 1 3201001.041042, 3201001.018, 405/55-0</td> </tr> <tr> <td>Controserratura antipanico</td> <td>art. AP020P, AP020U, 3201001.6, 43190-95</td> </tr> <tr> <td>Dispositivo superiore</td> <td>art. 3105080, 3105024, 3305003</td> </tr> <tr> <td>Riscontro asta</td> <td>art. 2401006, 2401046, 2401044, 2401002</td> </tr> <tr> <td>Boccola pavimento</td> <td>art. 2401001, 2401007, 3105091, 2401020, 4419008</td> </tr> <tr> <td>Deviatori</td> <td>art. 4201010</td> </tr> <tr> <td>Aste verticali</td> <td>art. 3305015, 3305016, 3305002, 3305013, 990837</td> </tr> <tr> <td>Riscontro serratura</td> <td>art. 2401006, 2401005, 2401015, 2401014, 2401006, 2401035, 3412001</td> </tr> <tr> <td>Comandi esterni</td> <td>art. BM, BSP, BS, BMC, BC, B, A, BM inox, BM alu, BSP inox, BSP alu</td> </tr> <tr> <td>Sistema di attestazione della conformità</td> <td>1</td> </tr> <tr> <td>Norma di riferimento</td> <td>EN1125:2008</td> </tr> <tr> <td>Classificazione</td> <td>3   7   7   B   1   3   2   2   B   A</td> </tr> </tbody> </table>				Dati prodotto	Product Type	Tipologia	DISPOSITIVI ANTIPANICO PER USCITE DI SICUREZZA AZIONATI MEDIANTE UNA BARRA ORIZZONTALE PANIC EXIT DEVICES	Denominazione	Dispositivo antipanico	Serratura antipanico	art. AP16/18, SCA 1 3201001.019020, MAC 1 3201001.041042, 3201001.018, 405/55-0	Controserratura antipanico	art. AP020P, AP020U, 3201001.6, 43190-95	Dispositivo superiore	art. 3105080, 3105024, 3305003	Riscontro asta	art. 2401006, 2401046, 2401044, 2401002	Boccola pavimento	art. 2401001, 2401007, 3105091, 2401020, 4419008	Deviatori	art. 4201010	Aste verticali	art. 3305015, 3305016, 3305002, 3305013, 990837	Riscontro serratura	art. 2401006, 2401005, 2401015, 2401014, 2401006, 2401035, 3412001	Comandi esterni	art. BM, BSP, BS, BMC, BC, B, A, BM inox, BM alu, BSP inox, BSP alu	Sistema di attestazione della conformità	1	Norma di riferimento	EN1125:2008	Classificazione	3   7   7   B   1   3   2   2   B   A
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Eventuali estensioni	Nessuna / None	Extensions																															
Eventuali condizioni di subordinazione della Certificazione CE	Nessuna / None	Possible conditions of subordination of the CE Certification																															
Il presente attestato è valido esclusivamente per il prodotto indicato. Eventuali varianti da apportare devono essere approvate da ICIM SpA. The present issue is valid only for the product described above. Possible changes to be brought in have to be approved by ICIM SpA.																																	
Data di emissione First issue	Emissione corrente Current issue	Data di scadenza Expiring date	Ing. Tullio Badino																														
31/05/2007	04/08/2010	30/05/2017																															

## SLASH IN BLACK PLASTIC

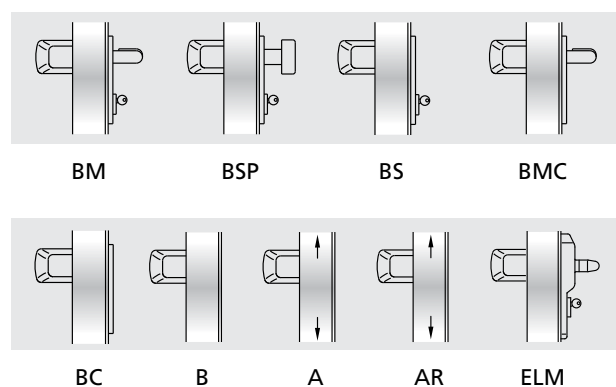


### Description

The SLASH panic bar consists of an anodized aluminum horizontal bar and an internal connection tube that inserts into the mechanisms which activate the lock.

- Reversible for right or left opening
- For application to single leaf and two-leaved doors
- Suited for Rever/Univer/Proget doors and other types of panic exit doors
- The horizontal bar is made of extruded anodized aluminum with an elliptical cross-section measuring 40x20mm and a length of 1150mm, equipped with a connection tube
- The two mechanisms are made of galvanized steel with black plastic carter covers, one of which has a green label that identifies the lock side
- The lock is anti-panic/fire rated for Euro profile cylinders
- The door furnitures and the cover plates are made of black plastic, while the installation plate is made of galvanized steel

## VERSIONS AVAILABLE



## VARIATIONS ON REQUEST (see dedicated page)

- Aluminum bar painted in RAL colors
- External BM, BSP, BS, BMC and BC commands in brushed stainless steel
- External BM and BSP commands painted in RAL colors
- MAC1 panic lock with access control mode, combinable with BM versions
- Mastered or encoded cylinders
- Microswitch and cable sleeve for signaling when the door is open

## SLASH (SUPPLIED WITH THE DOOR)

### For single leaf or the active leaf of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65mm entrance and the strike box lock insert

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 hole cover in RAL 9006 colored plastic with base plate (for REVER and UNIVER doors), Nr. 1 black plastic external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC, B (for Proget doors only), ELM  
ELM electric handle: see the dedicated pages

### For the inactive leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (for fire doors only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A, AR (reduced) for inactive leaves with FM L2 width ≤ 500mm

## SLASH KIT

### (SUPPLIED SEPARATELY FROM THE DOOR)

#### KIT for single leaf or the active leaf of two-leaved doors:

Please specify leaf thickness and door type - REVER, UNIVER or PROGET - in the order

*KIT contents:* Nr. 1 anti-panic lock with 65mm entrance, Nr. 1 strike box lock insert, Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 hole cover in RAL 9006 colored plastic with base plate, Nr. 1 black plastic external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC

#### KIT for the inactive leaf of two-leaved doors, suited for REVER, UNIVER and PROGET fire and multipurpose doors (produced after 01.01.2005):

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 upper re-latch device, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (excluding REVER and UNIVER MULTIPURPOSE), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A, AR (reduced) for use with inactive leaves with FM L2 width ≤ 500mm

#### KIT for the inactive leaf of two-leaved doors and suited for other types of multipurpose doors and for substitution of non CE marked panic bars (PROGET doors):

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 mechanisms, Nr. 2 black plastic carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 upper re-latch device, Nr. 1 upper strike plate, vertical rods, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A, AR (reduced) for use with inactive leaves with FM L2 width ≤ 500mm

## SLASH IN ALUMINUM



### Description

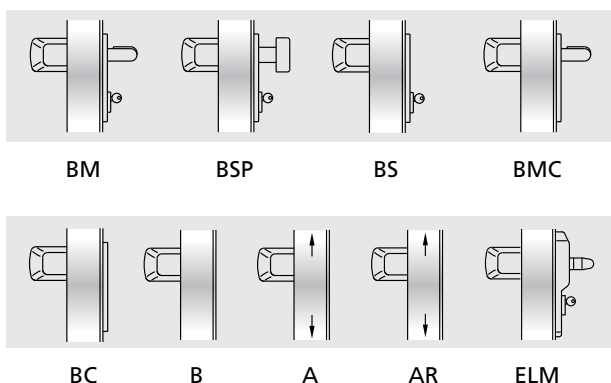
The SLASH ALU panic bar consists of an anodized aluminum horizontal bar and an internal connection tube that inserts into the mechanisms which activate the lock.

- Reversible for right or left opening
- For application to single leaf and two-leaved doors
- Suited for Rever/Univer/Proget doors and other types of panic exit doors
- The horizontal bar is made of extruded anodized aluminum with an elliptical cross-section measuring 40x20mm and a length of 1150mm, equipped with a connection tube
- The two mechanisms are made of galvanized steel with aluminum alloy carter covers with polished chrome finishing, one of which has a green label to identify the lock side
- The lock is anti-panic/fire rated for Euro profile cylinders
- The external door furnitures and related cover plates are made of AISI 304 brushed stainless steel, while the installation plate is made of galvanized steel
- The carters are finished with tri-valent chrome in compliance with the ROSH regulation

### NOTE

It is not advisable to use the anti-panic bar SLASH ALU for marine environments or in particularly humid areas. For these situations the use of the anti-panic bar SLASH S.S. is recommended.

## VERSIONS AVAILABLE



## VARIATIONS ON REQUEST (see dedicated page)

- Aluminum bar painted in RAL colors
- MAC1 panic lock with access control system, combinable with BM versions
- Mastered or encoded cylinders
- Microswitch and cable sleeve for signaling when the door is open

## SLASH ALU (SUPPLIED WITH THE DOOR)

### For single leaf or the active leaf of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65mm entrance and the strike box lock insert

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 hole cover in black plastic with base plate (for REVER and UNIVER doors), Nr. 1 stainless steel external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC, B (for Proget doors only), ELM electric handle: see the dedicated pages

### For the inactive leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (for fire doors only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A, AR (reduced) for inactive leaves with FM L2 width ≤ 500mm

## SLASH ALU KIT

### (SUPPLIED SEPARATELY FROM THE DOOR)

### KIT for single leaf or the active leaf of two-leaved doors:

Please specify leaf thickness and door type - REVER, UNIVER or PROGET - in the order

*KIT contents:* Nr. 1 anti-panic lock with 65mm entrance, Nr. 1 strike box lock insert, Nr. 2 mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 hole cover in black plastic with base plate, Nr. 1 stainless steel external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC

### KIT for the inactive leaf of two-leaved doors, suited for REVER, UNIVER and PROGET fire and multipurpose doors (produced after 01.01.2005):

*KIT contents:* Nr. 1 anti-panic safety lock with 80 mm entrance, Nr. 2 mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 upper re-latch device, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (excluding REVER and UNIVER MULTIPURPOSE), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A, AR (reduced) for use with inactive leaves with FM L2 width ≤ 500mm

### KIT for the inactive leaf of two-leaved doors and suited for other types of multipurpose doors and for substitution of non CE marked panic bars (PROGET doors):

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 mechanisms, Nr. 2 polished chromed aluminum carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 upper re-latch device, Nr. 1 upper strike plate, vertical rods, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A, AR (reduced) for use with inactive leaves with FM L2 width ≤ 500mm

## SLASH IN STAINLESS STEEL

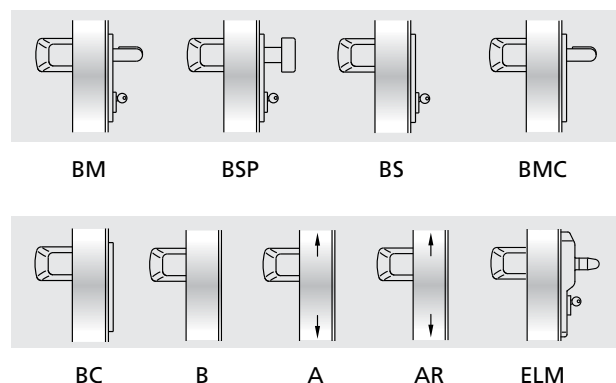


### Description

The SLASH STAINLESS STEEL panic bar consists of a stainless steel horizontal bar and an internal connection tube that inserts into the mechanisms which activate the lock.

- Optimal corrosion and shock resistance
- State of the art aesthetics
- Secure attachment of carter covers
- Reversible for right or left opening
- For application to single leaf and two-leaved doors
- Suited for Rever/Univer/Proget doors and other types of panic exit doors
- The horizontal bar is made of AISI 304 brushed stainless steel with a 40x20mm elliptical cross-section and a length of 1150mm, equipped with a connection tube
- The two mechanisms are made of galvanized steel with AISI 304 stainless steel cover plates, one of which has a green label that identifies the lock side
- The lock is anti-panic/fire rated for Euro profile cylinders
- The external door furnitures and related cover plates are made of AISI 304 brushed stainless steel, while the installation plate is made of galvanized steel

## VERSIONS AVAILABLE



## VARIATIONS ON REQUEST (see dedicated page)

- MAC1 panic lock with access control system, combinable with BM versions
- Mastered or coded cylinders
- Microswitch and cable sleeve for signaling when the door is open

## SLASH STAINLESS STEEL (SUPPLIED WITH THE DOOR)

### For single leaf or the active leaf of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65mm entrance and the strike box lock insert

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 stainless steel carter covers, Nr. 1 stainless steel bar with connection tube and spacer, Nr. 1 hole cover in black-colored plastic with base plate (for REVER and UNIVER doors), Nr. 1 stainless steel external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC, B (for Proget doors only), ELM ELM electric handle: see the dedicated pages

### For the inactive leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 mechanisms, Nr. 2 stainless steel carter covers, Nr. 1 stainless steel bar with connection tube and spacer, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (for fire doors only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A, AR (reduced) for inactive leaves with FM L2 width ≤ 500mm

## SLASH STAINLESS STEEL KIT

### (SUPPLIED SEPARATELY FROM THE DOOR)

### KIT for single leaf or the active leaf of two-leaved doors:

Please specify leaf thickness and door type - REVER, UNIVER or PROGET - in the order

*KIT contents:* Nr. 1 anti-panic lock with 65mm entrance, Nr. 1 strike box lock insert, Nr. 2 mechanisms, Nr. 2 stainless steel carter covers, Nr. 1 stainless steel bar with connection tube and spacer, Nr. 1 hole cover in black plastic with base plate, Nr. 1 stainless steel door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* BM, BSP, BS, BMC, BC

### KIT for the inactive leaf of two-leaved doors, suited for REVER, UNIVER and PROGET fire and multipurpose doors (produced after 01.01.2005): specify door type on the order form

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 mechanisms, Nr. 2 stainless steel carter covers, Nr. 1 stainless steel bar with connection tube and spacer, Nr. 1 upper re-latch device, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm (excluding REVER and UNIVER MULTIPURPOSE), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A, AR (reduced) for use with inactive leaves with FM L2 width ≤ 500mm

### KIT for the inactive leaf of two-leaved doors and suited for other types of multipurpose doors and for substitution of non CE marked panic bars (PROGET doors):

*KIT contents:* Nr. 1 anti-panic safety lock with 80mm entrance, Nr. 2 mechanisms, Nr. 2 stainless steel cover plates, Nr. 1 stainless steel bar with connection tube and spacer, Nr. 1 upper re-latch device, Nr. 1 upper strike plate, vertical rods, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A, AR (reduced) for use with inactive leaves with FM L2 width ≤ 500mm

# General information

## Panic bars - System components

### COMPONENTS OF THE CERTIFIED SYSTEM

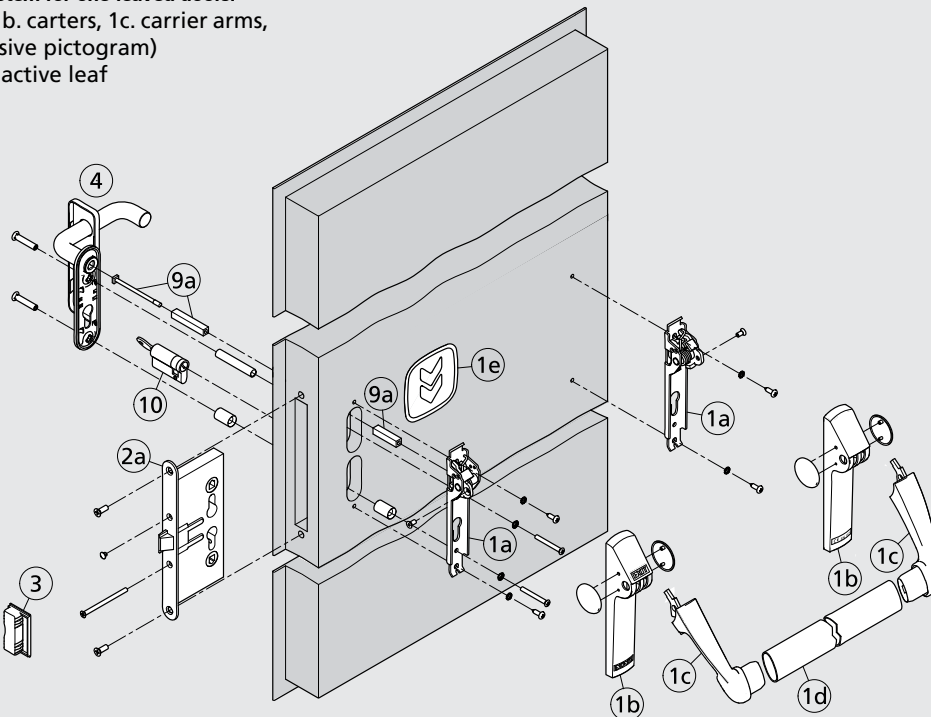
All NINZ panic bars are supplied in complete KITS to ensure conformity with EN 1125:2008 standards and **CE** certification of the product. When supplied together with the door, several of these components are already mounted

on the leaf and/or doorframe.

The purpose of the following examples is to help clarify what panic bars must include to comply with certified samples.

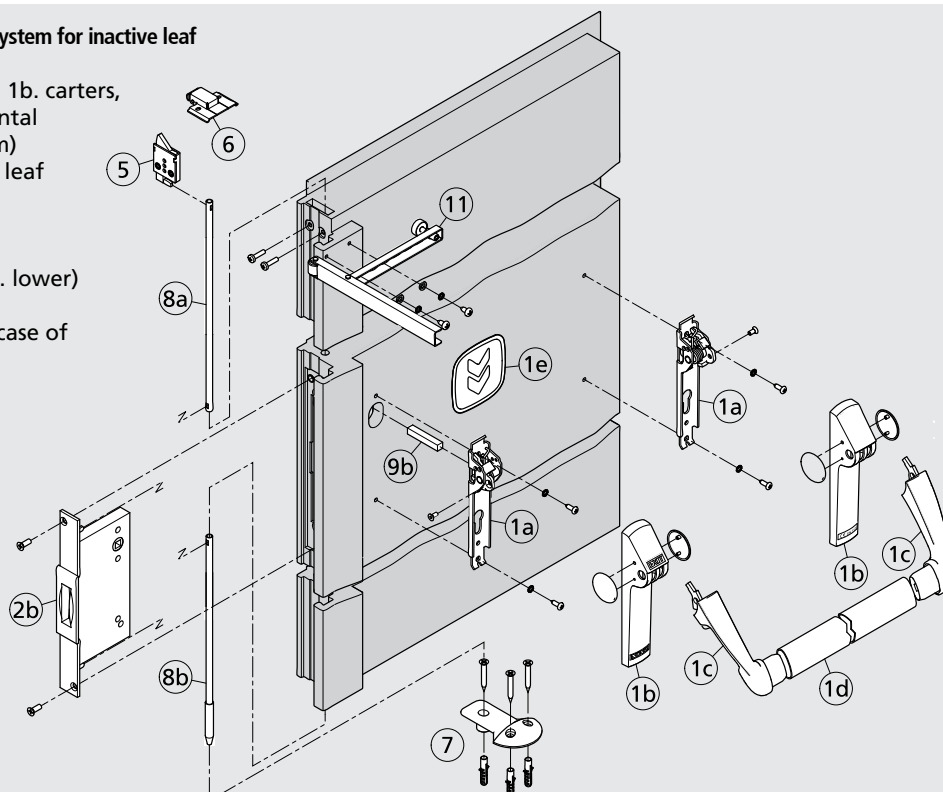
#### Certified components of the EXUS system for one-leaved doors:

1. panic bar (1a. mechanisms, 1b. carters, 1c. carrier arms, 1d. horizontal bar, 1e. adhesive pictogram)
- 2a. panic safe lock for single or active leaf
3. strike box lock
4. external operation
- 9a. square spindle
10. half cylinder or cylinder to pass



#### Certified components of the EXUS system for inactive leaf of two-leaved doors:

1. panic bar (1a. mechanisms, 1b. carters, 1c. carrier arms, 1d. horizontal bar, 1e. adhesive pictogram)
- 2b. panic safe lock for inactive leaf
5. upper bolt device
6. strike box with roller
7. floor catch set
8. vertical rods (8a. upper, 8b. lower)
- 9b. square spindle
11. carrier arm (mandatory in case of fire-rated doors only)



# Variations on request

For panic bars

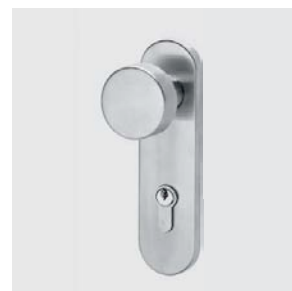
**NINZ**<sup>®</sup>  
FIREDOORS

## STAINLESS STEEL EXTERNAL DOOR FURNITURE

For all black plastic exit devices (except for those designed for glazed doors), brushed stainless steel external BM, BSP, BS BMC and BC commands are available on request.



BM stainless steel



BSP stainless steel

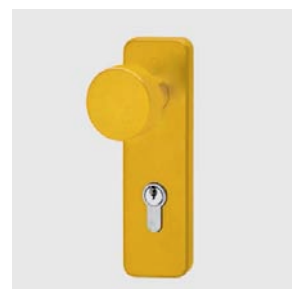
## COLORED PLASTIC EXTERNAL DOOR FURNITURE

For all black plastic exit devices (except for those designed for glazed doors), painted plastic external BM and BSP commands are available on request.

Colors available:					*light aluminum
RAL	RAL	RAL	RAL	RAL	
1023	7016	7035	9006*	9010	



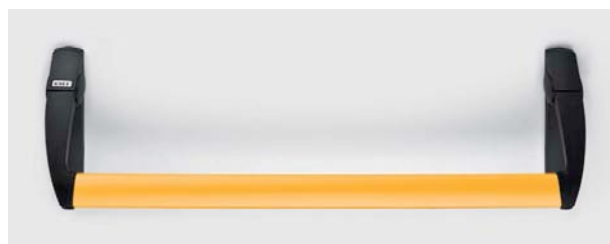
BM colored RAL1023



BSP colored RAL1023

## PAINTED HORIZONTAL BAR

For all exit devices (except for those with a stainless steel bar), the aluminum horizontal bar may be painted in the RAL color of your choice.



## VERSION „E“ WITH MICROSWITCH

All exit devices may be equipped with a microswitch incorporated in the hinge side mechanism for signaling when the door is open. The cable and cable sleeve for the electrical connection between the exit device and the wall are included.



## MAC1<sup>®</sup> AND MAC1<sup>®</sup> FAILSAFE ACCESS CONTROL SYSTEMS

For all exit devices with type BM external door furniture (except for those designed for glazed doors), the panic lock is also available with the access control function. Delivery together with the door includes the following: the MAC1 or MAC1 FAILSAFE lock, external command with LED, internal cabling of the leaf and the electric contacts between the door leaf and door frame. In case of delivery as a Kit with panic bar instead of the internal cabling and the electric contacts a power supply cable and a flexible cable sleeve will be supplied.

### MAC1 and MAC1 FAILSAFE:

- powered at 12-24 V AC/DC
- 250 mA absorption with startup at 500 mA at 12V or max. 1A at 24V
- timer incorporated, time set at 30 seconds
- possibility for continuous handle activation (open setting)



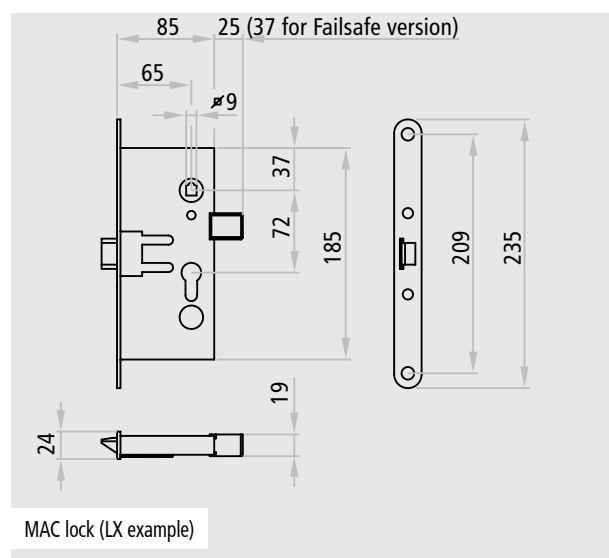
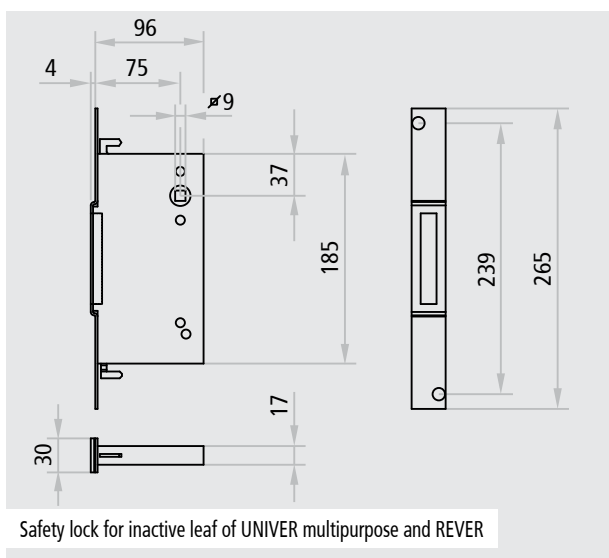
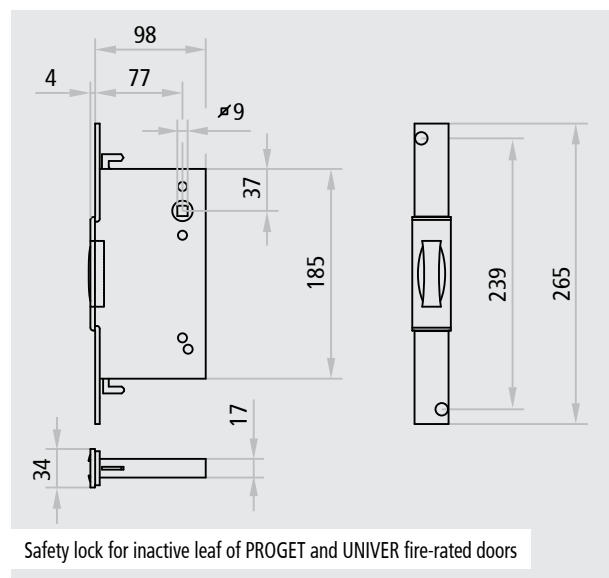
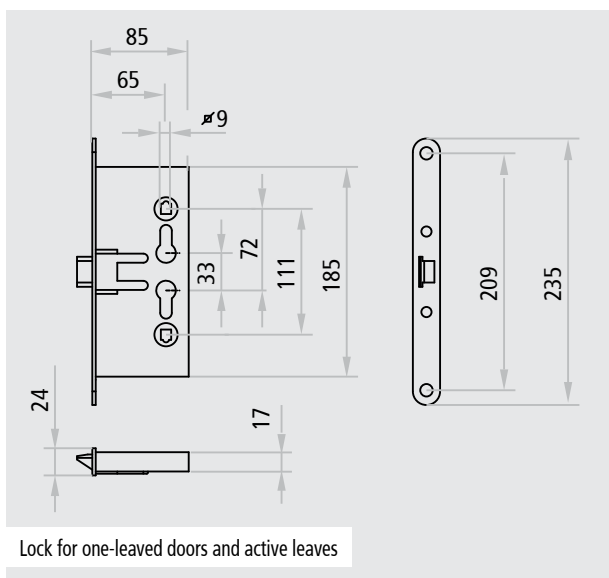
Handle for MAC1 and MAC1 FAILSAFE locks with LEDs

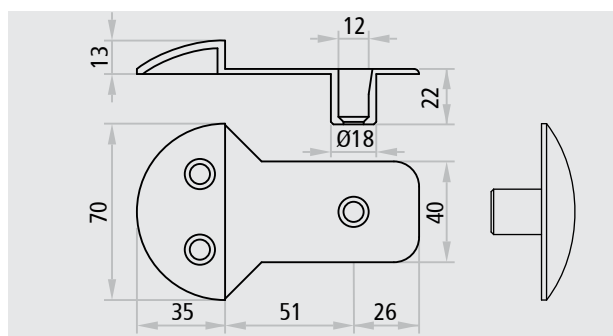
For sizes, information and technical data consult the dedicated pages

# Dimensional drawings

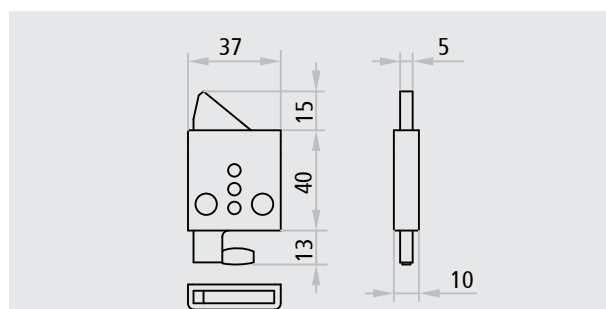
For panic bar components

Article Nr.	Description
3201001.016	Lock for one-leaved doors and active leaves (AP 16/18)
3201001.024	Safety lock for inactive leaves (AP 020 P)
3201001.008	Safety lock for inactive leaves of UNIVER multipurpose and REVER (AP 020 U)
3201001.041	MAC1 Left lock
3201001.042	MAC1 Right lock
2401001.001	Lower floor catch for inactive leaf of PROGET and other multipurpose doors
3105019.001	Lower floor catch for inactive leaf of UNIVER
3105020.001	Lower floor catch for inactive leaf of REVER
2401006.001	Strike plate insert for one-leaved PROGET and other multipurpose doors
3105080.001	Upper re-latch device for inactive leaf of PROGET and other multipurpose doors
3105024.001	Upper re-latch device for inactive leaf of UNIVER and REVER
2401046.001	Upper strike box for inactive leaf of PROGET and other multipurpose doors
3305001.001	Carrier arm for inactive leaf

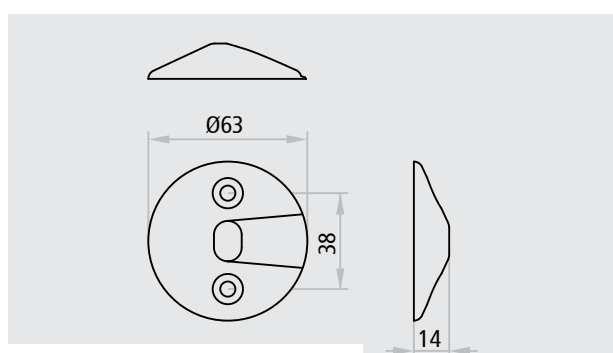




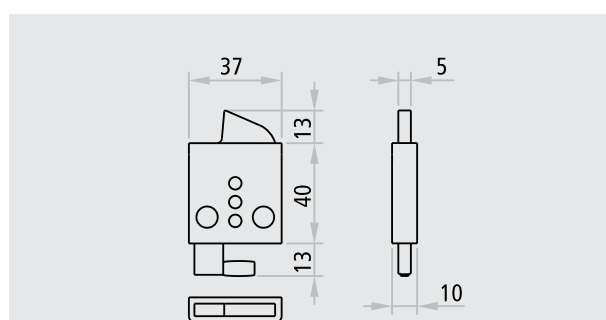
Lower floor catch for inactive leaf of PROGET and other multipurpose doors



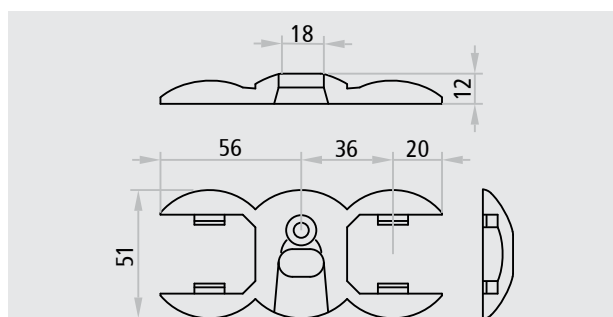
Upper re-latch device for inactive leaf of PROGET and other multipurpose doors



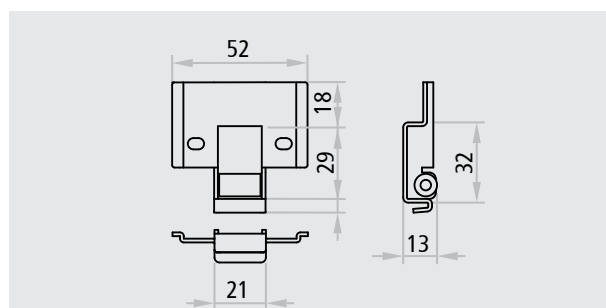
Lower floor catch for inactive leaf of UNIVER



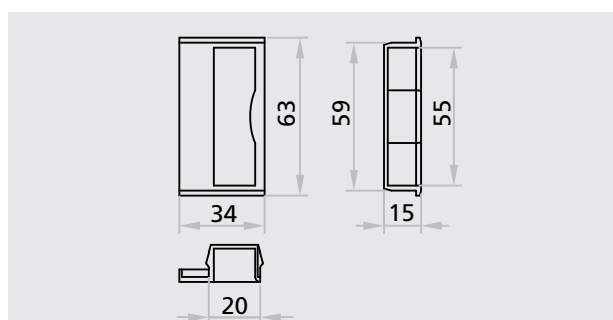
Upper re-latch device for inactive leaf of UNIVER and REVER



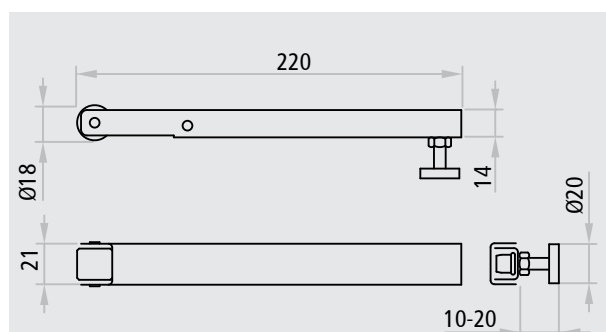
Lower floor catch for inactive leaf of REVER



Upper strike box for inactive leaf of PROGET and other multipurpose doors



Strike box lock insert for one-leaved doors of PROGET and other multipurpose doors

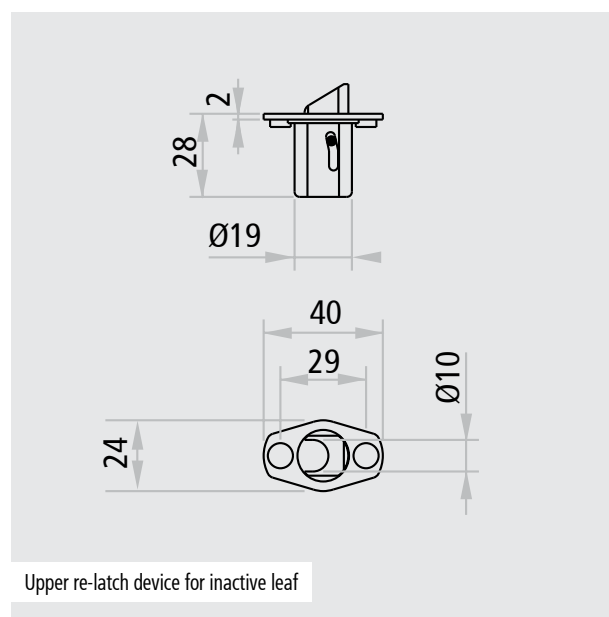
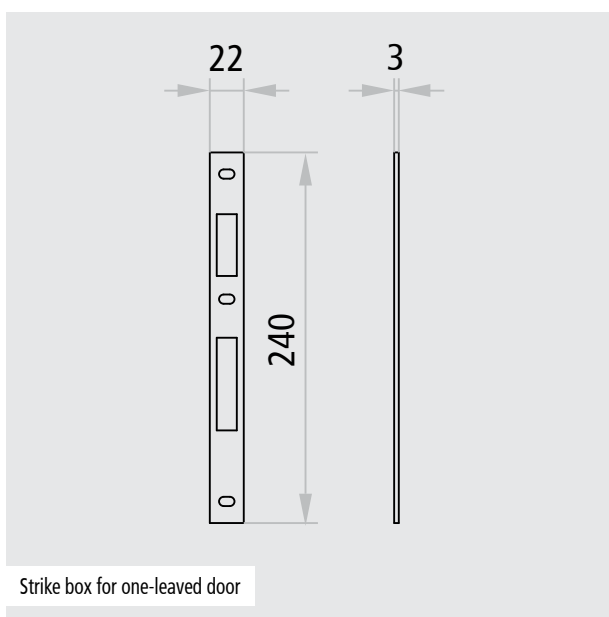
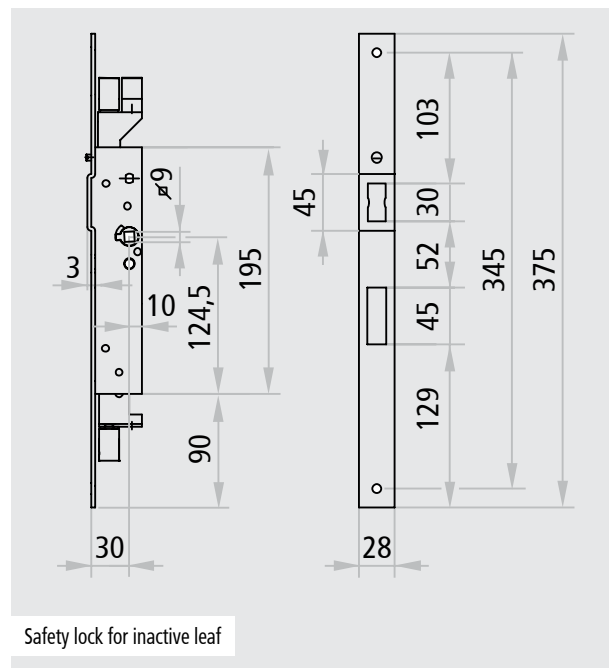
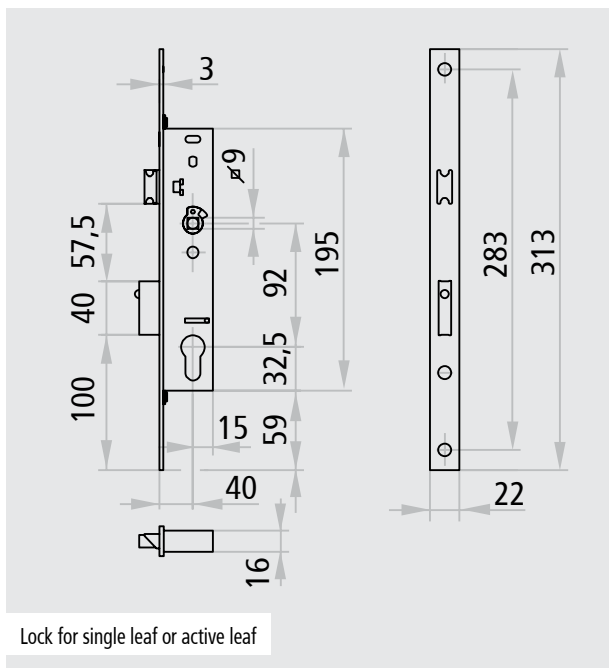


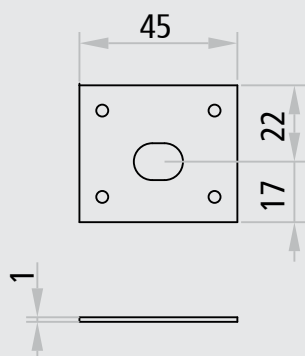
Carrier arm for inactive leaf

# Glazed door dimensional drawings

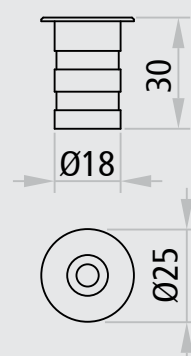
For panic bar components

Article Nr.	Description
4506002.17(V)	Lock for single leaf or active leaf
4506002.18(V)	Safety lock for inactive leaf
4506006(V)	Strike box for one-leaved doors
3105000	Upper re-latch device and upper strike box for inactive leaf
3105099	Lower floor catch for inactive leaf





Upper strike box for inactive leaf












Lower floor catch for inactive leaf

# Information

About REVER - UNIVER - PROGET doors



## NINZ METAL DOORS OVERVIEW

Features	REVER 	UNIVER  	PROGET  
versions	multipurpose only	multipurpose fire-rated 30/60/90/120 min	multipurpose fire-rated 60/90/120 min
leaf thickness	40 mm	50 mm for multipurpose and 30/60 min fire rated 60 mm for 60/90/120 min fire-rated	60 mm
filler	honey comb	rockwool	rockwool
reversible (left/right opening direction)	yes, fully reversible 4-sided frame	yes, fully reversible 4-sided frame	no, indicate opening direction 3-sided frame
frames/applications	angular with mortar or dry installation, block with dry installation, Speed, Solid, Tescop frame extensions	angular (for fire-rated doors an insulation of the frame by mortar is mandatory), various frame extensions	angular with mortar or dry installation, embracing for plasterboard/lightweight walls, block with dry installation, various frame extensions
max. dimensions (WxH) single/double leaved	single: 1350 x 2200 mm double: 2000 x 2200 mm	single: 1350 x 2200 mm double: 2000 x 2200 mm	single: 1340 x 2670 mm double: 2660 x 2670 mm
standard heights	2050, 2100, 2150, 2200 mm	2050, 2100, 2150, 2200 mm	2000, 2050, 2100, 2150, 2200 mm
hinges/leaf	2x 3-wings	1x 3-wings ball bearing 1x 3-wings with self-closing spring	1x 3-wings ball bearing 1x 3-wings with self-closing spring
delivery	single: fully assembled double: to be assembled	single: fully assembled double: to be assembled	to be assembled
weight/m <sup>2</sup>	14-15 kg/m <sup>2</sup>	 22-23 kg/m <sup>2</sup> -  23-43 kg/m <sup>2</sup>	 26-29 kg/m <sup>2</sup> -  37-42 kg/m <sup>2</sup>

## GENERAL INFORMATION

The technical specifications in this brochure and also the "Notices" section of the following chapter, are of basic importance in order to have the necessary information about the characteristics of Ninz products that will be ordered. As reported in the order forms or confirmations, buyer must declare to be aware of these specifications.

A complete and updated version of this brochure, as well as all documents related to firedoors or **CE** marked doors (certificates of conformity, installation instructions, DOP documents, etc.) are available and downloadable from the website [www.ninz.it](http://www.ninz.it).

Ninz reserves the right to make unannounced technical changes to the contents of this brochure and/or to its products, without any obligation to prior announcements.

No reproduction (partial or total) of the current brochure is allowed without prior authorization by Ninz.

If not specified, the measurements indicated in the current brochure are in millimeters, unless otherwise indicated.

Because of the intrinsicities of the printing process the colors depicted in this brochure may not correspond exactly to the colors of actual doors. Please see RAL or NCS samples.

The performance values listed in the current brochure have been reached with tests according to the current norms. The customer shall acknowledge that these may change according to:

- real installation conditions
- adjustments of leeway
- connections between door and wall
- execution of the wall itself.

The standard handle requires assembly (supplied not installed on the door).

The colors shown on the photos are not standard.

Handles, panic bars, cylinders, sealings, door closers, closing regulators, anchors, stainless steel protective-/kick-plates, drip steel profile and others are optional accessories and are supplied not installed onto the door.

The handle height positions indicated in the brochure are those standard. For special requests, please contact the Ninz sales department.

A summary of the standards about emergency exit devices or panic devices for safety exits is published in the current brochure and must be respected by all operators.

## Meaning of used abbreviations or symbols

Abbreviation or symbol	meaning	comments
Ø	diameter	
DX	right	opening direction
FFL	finished floor level	
FM	ordering dimension	may be different to the wall opening
FPC	plasterboard wall opening	dimension of the wall opening to be created
H	height	
L	width	
L1	division of the active leaf	nominal dimension
L2	division of the inactive leaf	nominal dimension
PT	doorframe opening	
SX	left	opening direction

## Meaning of used measurement units

Abbreviation	meaning	comments
°C	Celsius degree	temperature
A, mA, µA	Ampère, milliAmpère, microAmpère	intensity of the current („I")
AC	(Volt) alternating current	voltage
DC	(Volt) direct current	voltage
h	hour	time
Kg o kg	kilogram	weight
m, mm	meter, millimeter	dimension
nr.	number	quantity
sec.	second	time
V	Volt	electric potential

## INSTALLATION AREA

Ninz products are typically used for internal compartmentalization and have been designed for this purpose. For this reason they must be stored and installed sheltered from direct contact of atmospheric agents and sunlight.

In cases where a product is installed for external use, in order to avoid deteriorations over time, it is mandatory to take some precautions, in particular:

- select a painting suitable for exterior use
- select fire-rated glass suitable for exterior use
- provide canopies or roofing above installed products.

Only in this way it is possible to avoid any water seeping inside the goods and/or any warping of metal parts, especially in case of darker colours.

For products that incorporate REI or EI fire-rated glass, regardless of whether they are suitable for exterior use, it is further necessary to consider that:

- fire-rated glass remains stable in the range of temperature between -40°C and +50°C; exceeding this limits, the fire resistant interlayer of the glass reacts and begins to become opaque over the whole surface. Therefore it is necessary to avoid the installation near any heat source greater than 50°C and/or any lighting that may generate UV radiation
- exposure to high level of humidity may cause seeps inside of the layers, thus generating a dissolution of the interlayer. Therefore it is necessary to avoid the installation in areas with high level of humidity.

It is not advisable to use the anti-panic bars EXUS LA or SLASH ALU for marine environments or in particularly humid areas. For these situations the use of the anti-panic bars EXUS LX or SLASH S.S. is recommended.

Buyers should be aware that, pursuant to and in accordance with Italian Legislative Decree D.L. 09.04.2008 Nr. 81, all doors used for emergency exits or escape routes must have a minimum height of 2000mm.

All products must be installed onto supporting walls which are perfectly vertical, well aligned and onto levelled flooring.

In order to not hinder the self-closing of fire-rated doors it is moreover important that the installation area is not subject to strong air currents.

For the automatic closing of doors exposed to strong winds, the use of a door closer with a higher closing force is recommended.

The installation can be considered conform only with prior verification that the walls are in good conditions. Related to the weight of the products, it is moreover necessary to consider preventively:

- to verify the resistance, the load bearing capacity and the fastening suitability of the walls, divisions, structures and/or crossbeams related to the installation
- that the end-user may face difficulties operating the doors, especially people with reduced mobility (disabled, seniors, in poor health, etc.). It is important to take this factor into consideration, therefore while planning the use of products and/or to always hold the leaves open by means of electromagnets.

The protrusion of accessoires (for ex. handles, door closers, etc.), in case of interference with walls or other compartmentalizations, could compromise the opening of the leaf and/or create damages. In order to avoid that, buyers shall provide appropriate indents in the walls and in any case the installation of appropriate door stoppers.

## INSTALLATION, USE AND MAINTENANCE

Installation of every Ninz product must be performed by specialized technicians only, using all supplied and described components, strictly in accordance with the installation, use and maintenance handbook or with the installation instructions supplied by Ninz with the products.

Any installation modifications allowed for door and/or accessoires are only those that are indicated in the installation, use and maintenance handbook, which contain also the list of elements that have been tested and approved for use.

For the maintenance and/or repair of the Ninz products use original spare parts only which are listed in the installation instructions and also in price list.

The above mentioned notices are of basic importance to provide a high level of safety for human and for goods and in compliance with relevant norms.

## GLAZED FIRE-RATED PRODUCTS

REI or EI fire-rated glazed panels are submitted to rigorous quality controls during every stage of the production process. Minor optical imperfections or tiny air bubbles may be present due to the particular manufacturing process of the fire-rated glass. This does not compromise the fire resistance of the glass and does not constitute grounds for claims.

In order to guarantee the integrity of the glazing for purpose of handling, transport and installation, the fixed elements, in cases indicated by the manufacturer, will be built with more than one window panel.

The glasses for the fixed elements of the glazed doors are delivered non assembled. Please contact the responsible commercial department should any tears in the perimetral protection tape be detected during handling, storage or installation.

The REI or EI fire-rated glazed panes need to be stored in vertical position, as reported in the "Handling and storage instructions". Deformations, which may be irreversible, till breaking point of the layers, could arise in case of missed observance of these instructions.

Panes of fire-rated glass should never be leaned upon their corners, otherwise there is a risk of layers breaking.

Fire-rated panes may be handled using glazier's suction pads.



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EDITION 1-2016

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