

**NINZ**<sup>®</sup>  
FIREDOORS

## UNIVER Fire doors

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

## 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”

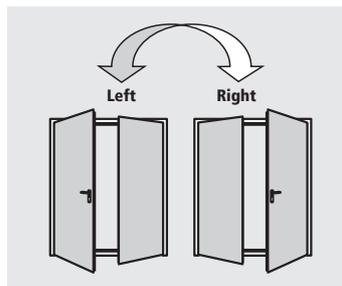
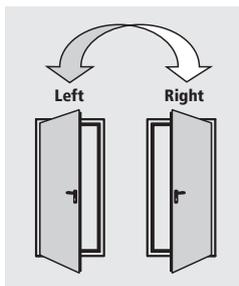
- Door reversibility\*
- Indication of door opening direction not necessary
- Reduction of stock for retailers
- Simplifies choices for end-customers
- Multiple installation methods for each door
- Type approvals for anchors for mortar fixing or expansion screws

### “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-leaved 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 REI 60 REI 120



Two-leaved doors available in the following classes:

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



\*except in combination with certain optional accessories

#### NOTE

The colors represented in the photos are not standard.

## STANDARD ELEMENTS

which comprise Univer fire doors:

### Door leaf

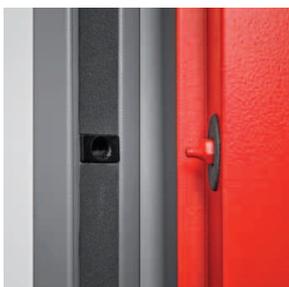
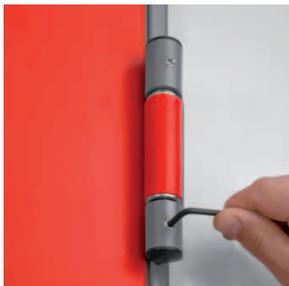
- Made of "Sendzimir" processed hot-galvanized sheet metal, press folded and electro welded
- Perimetral rebate on 4 sides
- Internally reinforced with hot-galvanized steel profiles
- Heat-insulated with treated mineral wool
- Internal stiffeners for overhead door closer and panic bar
- 50 or 60 mm thickness,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

### NOTE

Cylinder and rebate sealing provided on request only.  
The handle requires assembly.

## 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 secondary leaf

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

### Upper coupling system for the secondary leaf

- Secondary 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 secondary 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

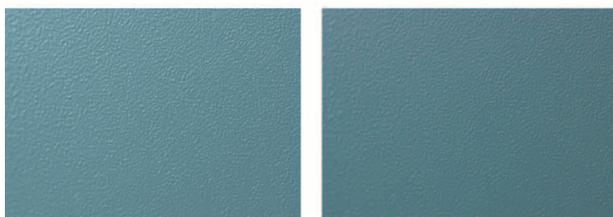
- Metal tag with door identification data, in accordance with current regulations



### 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
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.  
The closing regulator requires assembly.

### 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
- Windows

#### 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:

- Finishing
- Accessories for metal doors
- 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 secondary 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

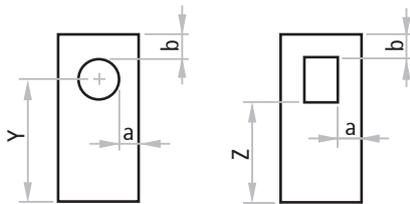
"Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

### 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



### Window thickness

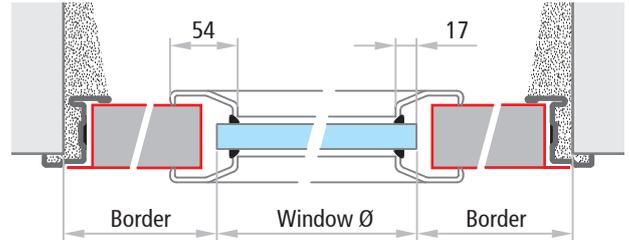
EI <sub>2</sub> 60, REI 60	21 mm	EI <sub>2</sub> 90	37 mm	REI 120	53 mm
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### NOTE

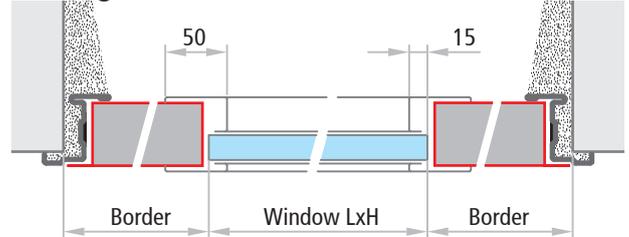
The positions indicated above are those standard. Different positions may be considered as long as they respect the minimum "a" and "b" border strips. The window itself may not be supplied separately except for replacements. It is always advisable for doors with windows to be equipped with door closers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



### Round window cross section



### Rectangular window cross section



### ATTENTION

Fire rated windows become opaque on exposure to temperatures of 40 degrees or higher, or when installed outside and exposed to UV radiation. Minor aesthetic imperfections or tiny air bubbles do not compromise the fire resistance of the glass, and do not constitute grounds for claims. For special instructions and recommendations for fire windows, see the "Notices" reported on the last page of the window accessories section of the present brochure.

# Specific optional accessories

UNIVER Fire doors



UNIVER fire door

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

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

## 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

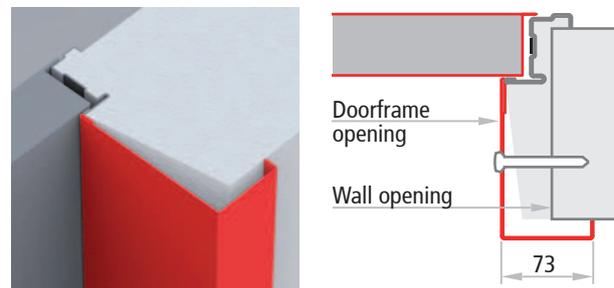
IM 12: for 60mm door thickness, for installation on 80mm (min.) wall thickness

### IM 13 - IM 14

Telescopic frame extension to be screwed to the Univer doorframe 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 REI doors) in black extruded profile to be pressed into the dedicated groove in the perimetral frame.

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



### NOTE

Upon request sealing supplied for single doors to be cut and mounted on site.

# Environmental characteristics

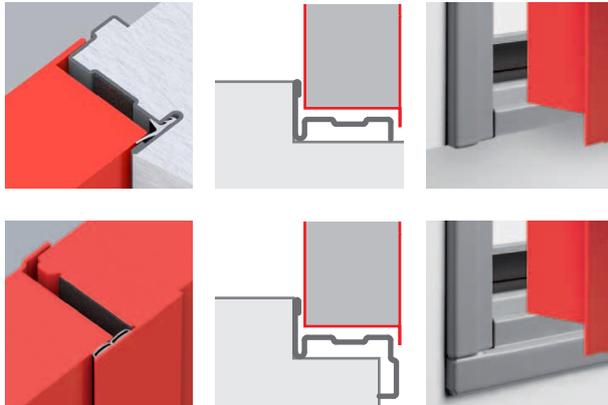
UNIVER Fire doors

**NINZ**<sup>®</sup>  
FIRE 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, 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>	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>	REI 60	class 3	1,99 W/m <sup>2</sup> K	class 3A, 9B	
	> 3,6 m <sup>2</sup>	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>	REI 60	class 3	2,92 W/m <sup>2</sup> K	class 3A, 9B	
	> 3,6 m <sup>2</sup>	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

### ATTENTION

The performance values listed above have only 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.

# Enhanced performances

UNIVER Fire doors



## 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



# Door cross sections - Measurements

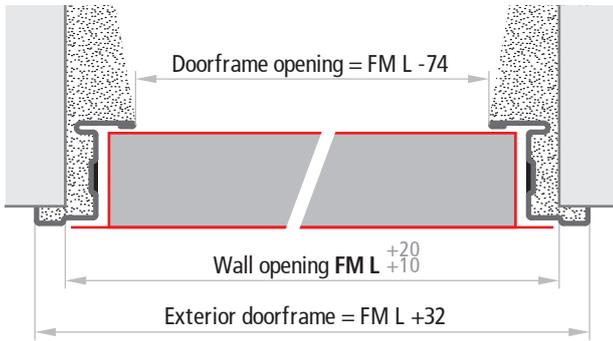
UNIVER Fire doors



UNIVER fire door

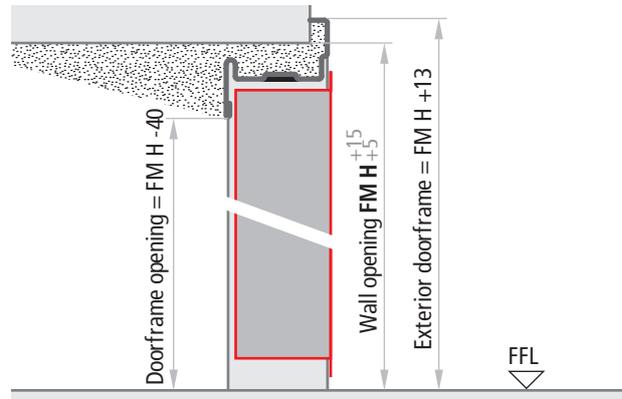
## One-leaved doors

Horizontal cross section



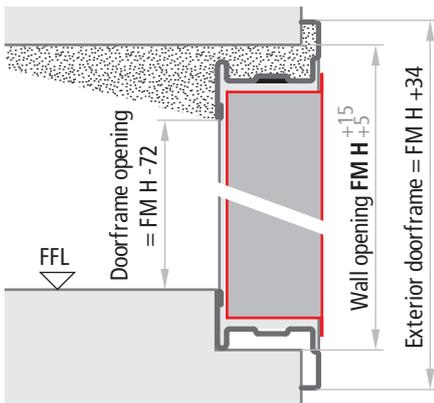
## Doors without lower threshold

Vertical cross section



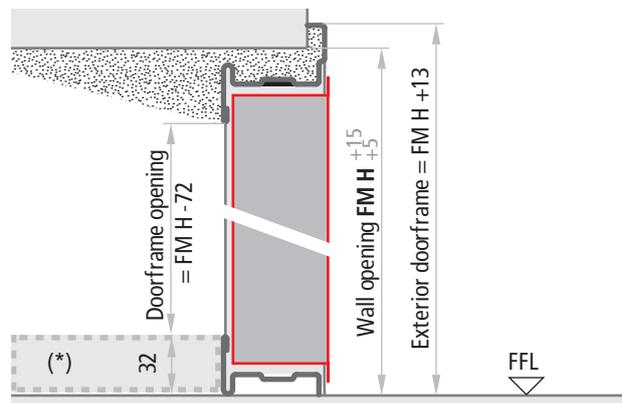
## Doors with internal and external lower thresholds

Vertical cross section



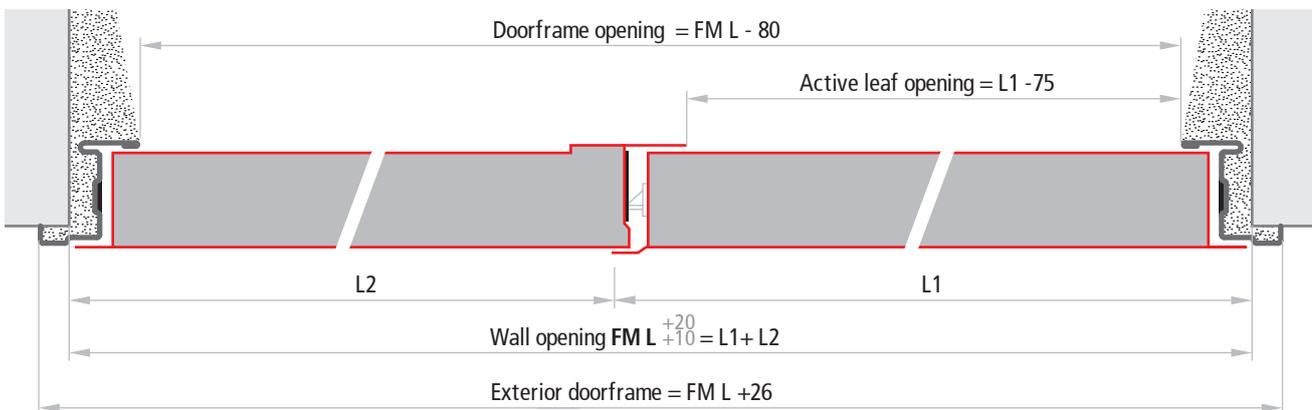
## Doors with internal lower threshold

Vertical cross section



## Two-leaved doors

Horizontal section



### Leaf thickness

class	thickness
EW 60, EI <sub>2</sub> 30, REI 60	50 mm
EI <sub>2</sub> 60, EI <sub>2</sub> 90, REI 120	60 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.

FFL = Finished floor level

(\*) Spacing to be performed only in case of installation onto emergency exit routes.

# Installation methods

UNIVER Fire doors

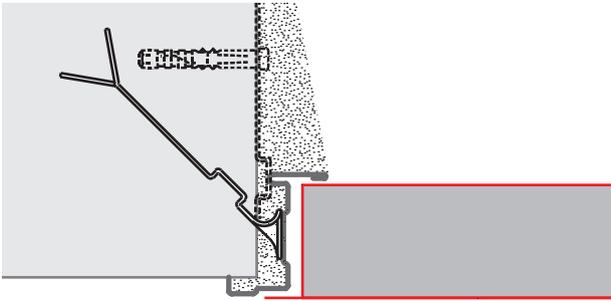


UNIVER  
fire door

## INSTALLATION WITH ANCHORS FOR MORTAR FIXING

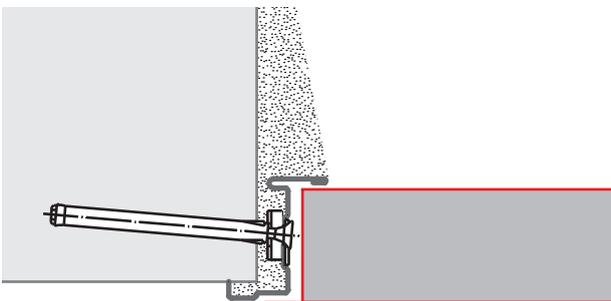


For mortar fixing, appropriate cuts will need to be created in the walls (section 80 x 200 mm). The anchors should be bent and blocked inside the wall. For fire sealing purposes and mechanical hold, the space between the doorframe and the masonry should always be filled with concrete mortar.



## INSTALLATION FOR EXPANSION SCREWS FIXING

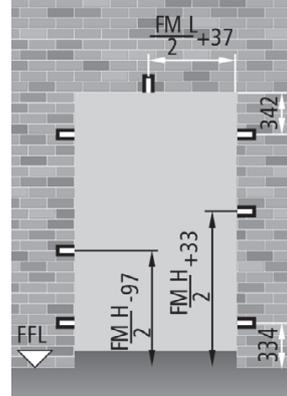
For the installation with expansion screws, the anchors serve as spacers and should not be bent. Using Würth type art. 0910436112 plugs or similar (supplied at the customer's expense), installation requires holes to be drilled through the thermo expansive sealing. The doorframe has pre-drilled holes.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



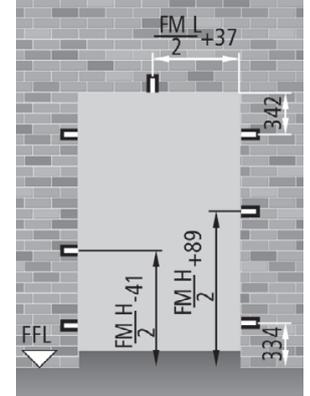
## ANCHOR POSITIONING

### One-leaved doors

Right opening

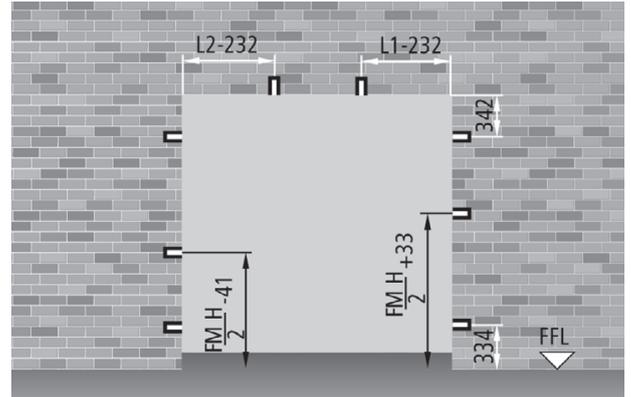


Left opening

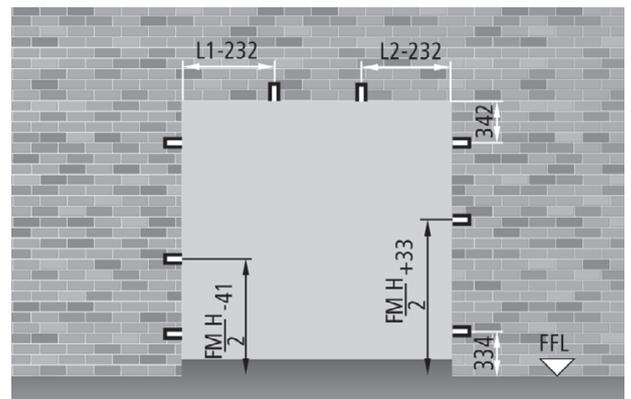


### Two-leaved doors

Right opening



Left opening

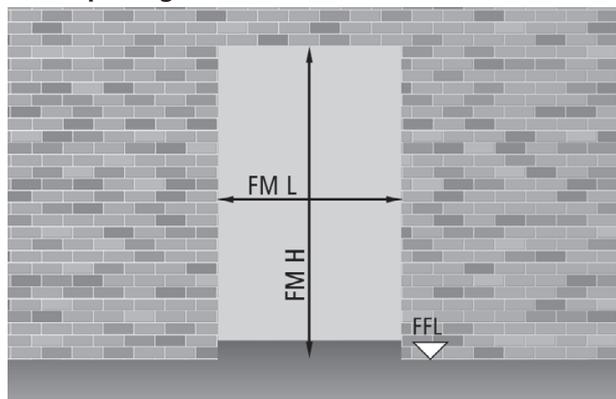


### NOTE

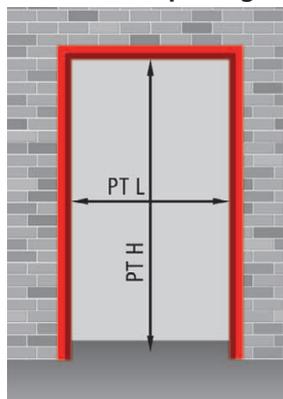
Proper installation requires 80 x 200 mm holes to be dug into the masonry.

## 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 / 2150	726	x	2010 / 2110	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60, EI <sub>2</sub> 90
900	x	2050 / 2150	826	x	2010 / 2110	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60, EI <sub>2</sub> 90
1000	x	2050 / 2150	926	x	2010 / 2110	EW 60, EI <sub>2</sub> 30, EI <sub>2</sub> 60, EI <sub>2</sub> 90
1100	x	2050 / 2150	1026	x	2010 / 2110	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

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

standard dimensions			PT L x PT H doorframe opening			fire-rating class
800	x	2050 / 2150	726	x	2010 / 2110	REI 60, REI 120
900	x	2050 / 2150	826	x	2010 / 2110	REI 60, REI 120
1000	x	2050 / 2150	926	x	2010 / 2110	REI 60, REI 120
1100	x	2050 / 2150	1026	x	2010 / 2110	REI 60, REI 120
1200	x	2050 / 2150	1126	x	2010 / 2110	REI 60, REI 120
1300	x	2050 / 2150	1226	x	2010 / 2110	REI 60, REI 120
1350	x	2050 / 2150	1276	x	2010 / 2110	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
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#### 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

# Order measurements

## UNIVER Fire doors



EI two-leaved doors FM L x FM H				PT L x PT H			fire-rating
standard dimensions				doorframe opening			class
1200	( 600 + 600)	x	2050 / 2150	1120	x	2010 / 2110	EI <sub>2</sub> 60
1200	( 700 + 500)	x	2050 / 2150	1120	x	2010 / 2110	EI <sub>2</sub> 60
1300	( 650 + 650)	x	2050 / 2150	1220	x	2010 / 2110	EI <sub>2</sub> 60
1300	( 800 + 500)	x	2050 / 2150	1220	x	2010 / 2110	EI <sub>2</sub> 60
1400	( 700 + 700)	x	2050 / 2150	1320	x	2010 / 2110	EI <sub>2</sub> 60
1400	( 900 + 500)	x	2050 / 2150	1320	x	2010 / 2110	EI <sub>2</sub> 60
1500	( 750 + 750)	x	2050 / 2150	1420	x	2010 / 2110	EI <sub>2</sub> 60
1600	( 800 + 800)	x	2050 / 2150	1520	x	2010 / 2110	EI <sub>2</sub> 60, EI <sub>2</sub> 90
1700	( 900 + 800)	x	2050 / 2150	1620	x	2010 / 2110	EI <sub>2</sub> 60, EI <sub>2</sub> 90
1800	( 900 + 900)	x	2050 / 2150	1720	x	2010 / 2110	EI <sub>2</sub> 60, EI <sub>2</sub> 90
1900	(1000 + 900)	x	2050 / 2150	1820	x	2010 / 2110	EI <sub>2</sub> 60, EI <sub>2</sub> 90
2000	(1000 + 1000)	x	2050 / 2150	1920	x	2010 / 2110	EI <sub>2</sub> 60, EI <sub>2</sub> 90
<b>semi standard dimensions</b>							
from 1000	( 500+ 500)	x	2050 / 2150	from 920	x	2010 / 2110	EI <sub>2</sub> 60, EI <sub>2</sub> 90
to 2000	(1000+1000)			to 1920			
<b>non-standard dimensions</b>							
from 1000	( 500+ 500)	x	from 1780	from 920	x	from 1740	EI <sub>2</sub> 60, EI <sub>2</sub> 90
to 2000	(1000+1000)		to 2150	to 1920		to 2110	

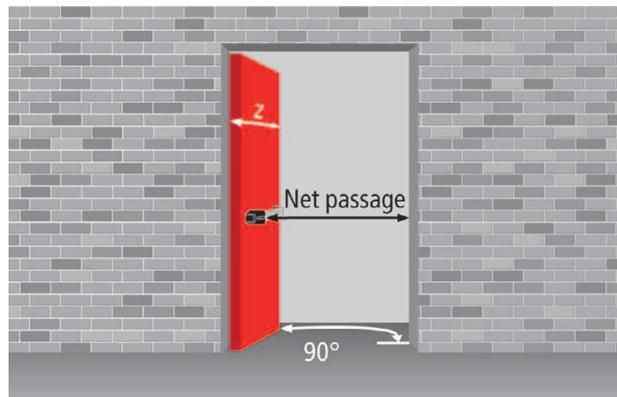
REI two-leaved doors FM L x FM H				PT L x PT H			fire-rating
standard dimensions				doorframe opening			class
1150	( 750 + 400)	x	2050 / 2150	1070	x	2010 / 2110	REI 60, REI 120
1200	( 800 + 400)	x	2050 / 2150	1120	x	2010 / 2110	REI 60, REI 120
1250	( 800 + 450)	x	2050 / 2150	1170	x	2010 / 2110	REI 60, REI 120
1300	( 900 + 400)	x	2050 / 2150	1220	x	2010 / 2110	REI 60, REI 120
1350	( 900 + 450)	x	2050 / 2150	1270	x	2010 / 2110	REI 60, REI 120
1400	(1000 + 400)	x	2050 / 2150	1320	x	2010 / 2110	REI 60, REI 120
1450	(1000 + 450)	x	2050 / 2150	1370	x	2010 / 2110	REI 60, REI 120
1600	( 800 + 800)	x	2050 / 2150	1520	x	2010 / 2110	REI 60, REI 120
1700	( 900 + 800)	x	2050 / 2150	1620	x	2010 / 2110	REI 60, REI 120
1800	( 900 + 900)	x	2050 / 2150	1720	x	2010 / 2110	REI 60, REI 120
1900	(1000 + 900)	x	2050 / 2150	1820	x	2010 / 2110	REI 60, REI 120
2000	(1000 + 1000)	x	2050 / 2150	1920	x	2010 / 2110	REI 60, REI 120
<b>semi standard dimensions</b>							
from 940	( 540+ 400)	x	2050 / 2150	from 860	x	2010 / 2110	REI 60, REI 120
to 2000	(1000+1000)			to 1920			
<b>non-standard dimensions</b>							
from 940	( 540+ 400)	x	from 1780	from 860	x	from 1740	REI 60, REI 120
to 2000	(1000+1000)		to 2150	to 1920		to 2110	

### NOTE

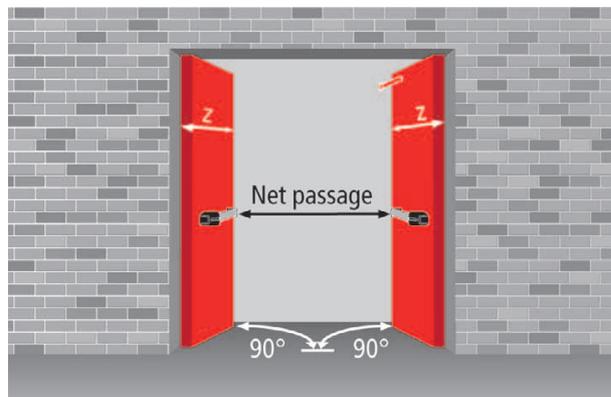
Buyers should be aware that pursuant to and in accordance with Italian Legislative Decree D.L. 09.04.2008 Nr. 81 all doors used for emergency exits must have a minimum height of 2000 mm (= nominal wall opening 2040 mm). Unless specified otherwise by the customer, two-leaved standard, semi-standard and 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

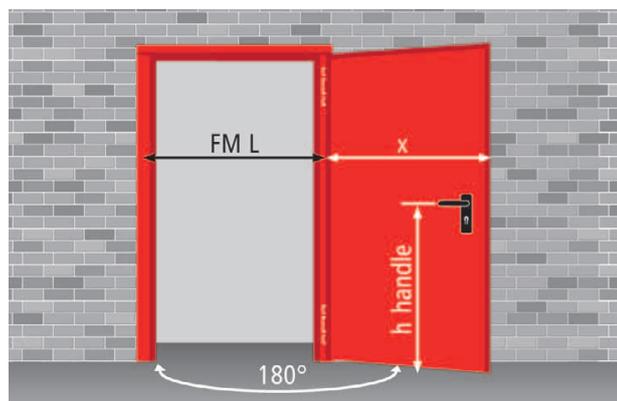
		EW 60 - EI <sub>2</sub> 30 - REI 60	REI 60	EI <sub>2</sub> 60 - EI <sub>2</sub> 90 - REI 120	EI <sub>2</sub> 60 - EI <sub>2</sub> 90 - REI 120
panic bar type	protrusion	one-leaved doors	two-leaved doors	one-leaved doors	two-leaved doors
EXUS	125	FML - 226	FML - 384	FML - 236	FML - 404
TWIST	100	FML - 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

$$x = FML + 5$$

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

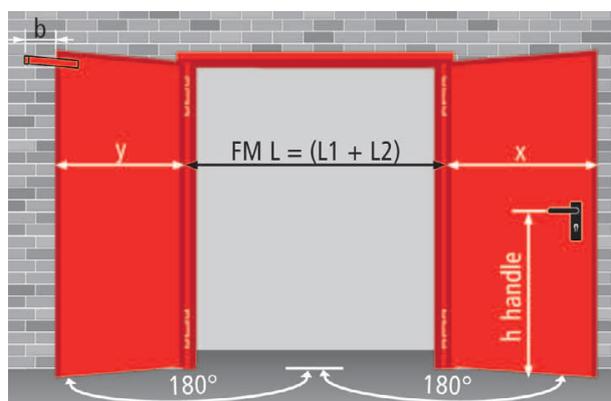


### Two-leaved doors

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

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

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



### NOTE

The 90 or 180 degree opening of the leaf could be compromised if handle or door closer protrusions come into contact with the wall.

### UNIVER - GENERAL NOTES

All rights reserved.

No reproduction (partial or total) without prior authorization by Ninz.

Ninz reserves the right to modify the product.

Installation should be executed by qualified technicians.

Modifications may only be made as indicated in the installation instructions. Original NINZ replacement parts must be used for all repair work.

## 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.



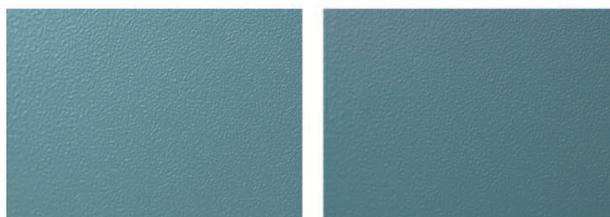
### STANDARD COLORS WITH NO PRICE SUPPLEMENT

Paint for interior use (group 01) with turquoise pastel colored epoxy-polyester powders - lighter tone for the leaf (NCS4020-B50G) and darker for the frame (NCS5020-B50G). The tonalities of the frame and the door leaf are represented on the photo to the right.

#### Standard paint - group 01:

leaf color NCS 4020-B50G

frame color NCS 5020-B50G



### SPECIAL COLORS 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 1013	RAL 1015	RAL 5010	RAL 5024	RAL 6000	RAL 7016	RAL 7024	RAL 7035
RAL 7038	RAL 8011	RAL 9001	RAL 9002	RAL 9010	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.

## SPECIAL COLORS FOR EXTERIOR USE WITH PRICE SUPPLEMENTS

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

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.

## SPECIAL COLORS BY 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.

Group 05:	
Colors by request only	

### 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.

### Retouching

On request, the Ninz company also provides touch-up paint (nitro/synthetic) in 0,25 or 0,50 kg cans in the necessary RAL colour.

### Re-painting

- For re-painting, use the following procedure:
- sand and carefully wipe away any dust from the surfaces
- apply a base layer of opaque 2-component epoxide - we recommend EPOX product Nr. 5203 beige 0059 (made by ALCEA, in Milan)
- repaint the surfaces with your choice of lacquers or paints.

### Protection

Since the doors have been designed for normal interior use, they should always be protected from atmospheric agents and direct sunlight. Exterior uses require paints that are specially designed for this kind of application (see groups 04, 05).

### WARNING!

Application to exterior doors requires for the adoption of various measures for preventing product degradation, such as:

1. The door should always be protected from bad weather. The door can be permanently damaged if water seeps inside the door leaf. Provide canopies or roofing to protect newly installed and existing products.
2. Avoid choosing darker colors when the doors will be exposed to direct sunlight. The sheet metal can heat up and cause warping of the door leaf that may compromise the functionality of the door itself.

An artifact of the printing process is that the colors depicted here may not correspond exactly to the colors of actual doors. Please see the RAL or NCS samples.

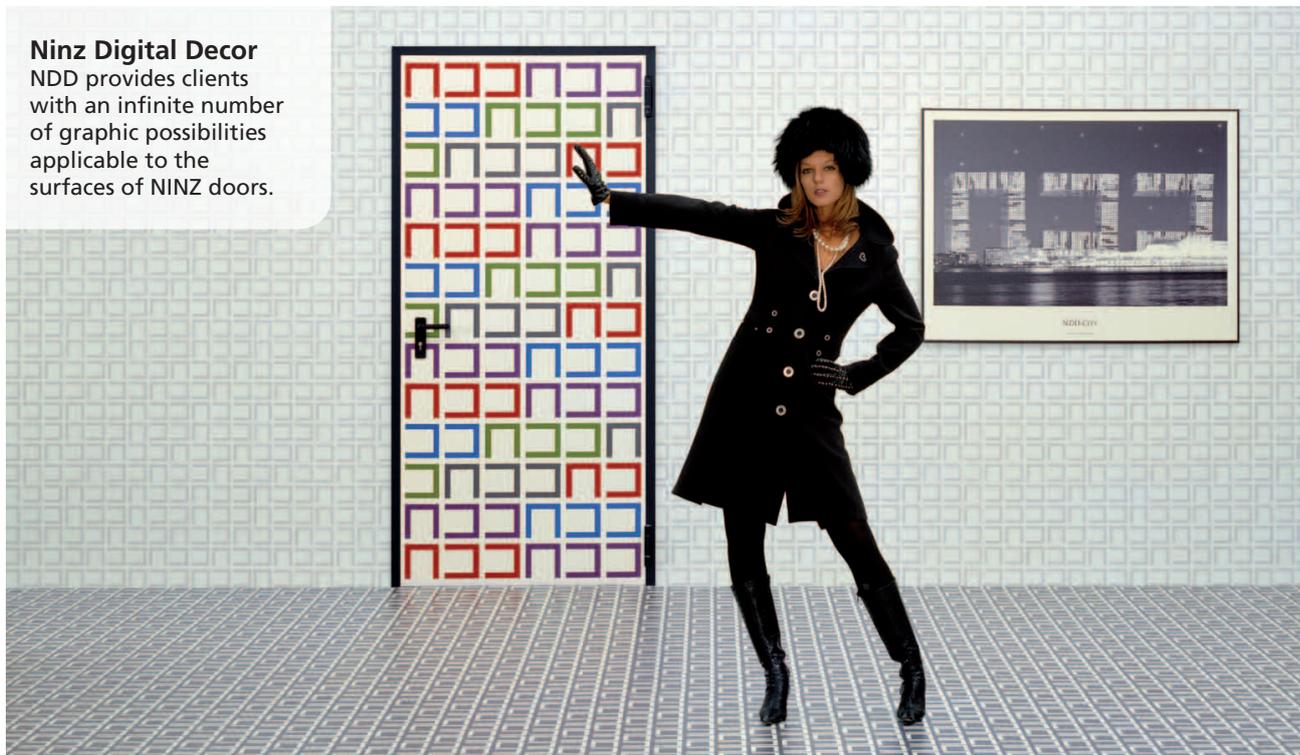
# NDD® - Ninz Digital Decor

Digital printing for NINZ doors



UNIVER  
fire door

**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.



**REFINEMENTS** 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.



# NDD® - Specifications

Digital prints for NINZ doors

**NINZ**<sup>®</sup>  
FIREDOORS

## 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



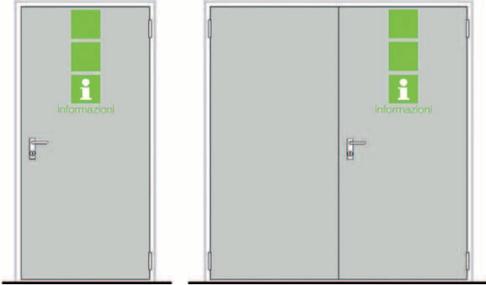
The particularity and prestige of NDD decorations requires a special protection of the doors by packaging them in special wooden crates with an additional layer of external nylon wrapping. At the time of ordering, therefore, the additional cost for the wooden crate must be taken into consideration. Customers 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



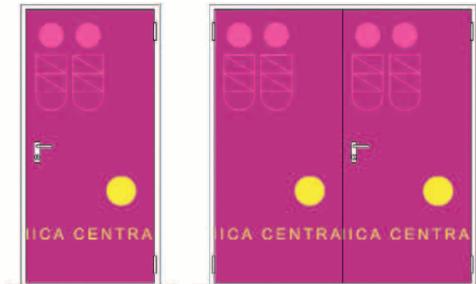
Museums – Historical buildings



Commercial businesses



Hospitals – Nursing homes



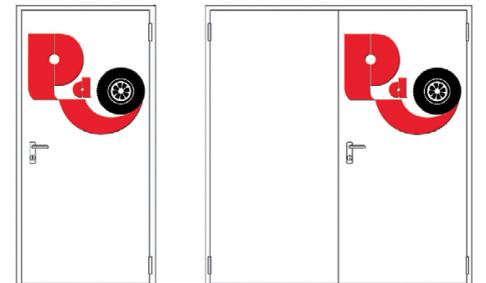
Sport centers – Stadiums



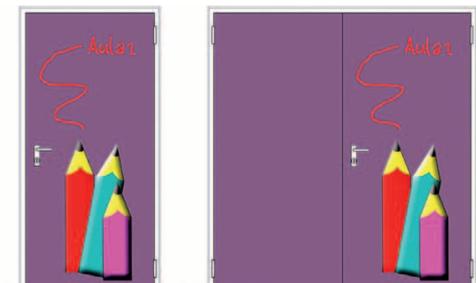
Parking lots



Logistic centers



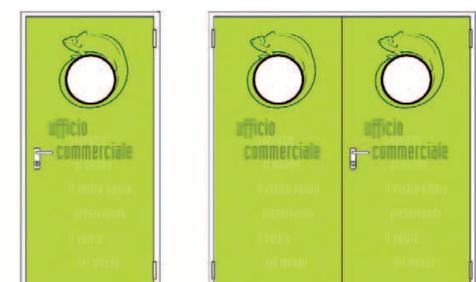
Schools - Universities



Hotels – Residences



Offices



# Black plastic handles

Standard for REVER - UNIVER - PROGET doors



## DOOR HANDLES

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

M1 handles are fire rated consisting of a metal core inside the lever and a galvanized steel cover plate to protect the cylinder hole.

The M1 handles have been certified in accordance with DIN 18273:1997-12.

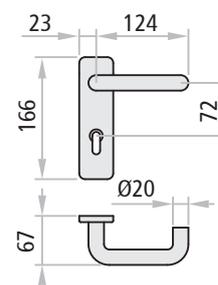
### M1 HANDLE

Fire rated Univer and all Proget doors are equipped by default with M1-type handles.

The M1 handle package includes: a pair of black plastic lever with metal cores and galvanized steel installation plates, a pair of black plastic backplates 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



Version		description	functioning	use
M1		handle/handle combination with cylinder hole on both sides. To be combined with locks with an inter-axis distance of 72mm (015)	door opening by handle or key from both sides	applications in which both door opening directions are accessible without key

### NOTE

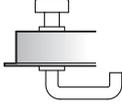
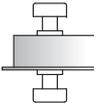
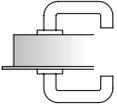
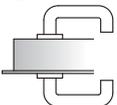
Handles are considered to be accessories and are not pre-assembled. Cylinders need to be ordered separately (except for Secur handles).

# Special black plastic handles

For locks with an inter-axis distance of 72 mm

## SPECIAL 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
M2 			handle/ doorknob combination with cylinder hole on both sides. To be combined with locks with an inter-axis distance of 72mm (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 locks with an inter-axis distance of 72mm (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 locks with an inter-axis distance of 72mm (015)	both sides require the key for opening applications in technical rooms with doors that usually remain closed and require keys for opening
M9 			doorknob/plate combination with cylinder hole on both sides. For combination with locks with an inter-axis distance of 72mm (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 locks with an inter-axis distance of 72mm (015)	opening is possible at any time using the handle applications in which the door never needs to be locked
M20 			handle/handle and doorknob combination for interior closure. For combination with locks 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

Models M2, M4, M5, M9 and M20 cannot be combined with the three-point locking mechanism.  
Handles are considered to be accessories and assembly is required.  
Cylinders need to be ordered separately.

# Colored handles - Stainless steel handles

For locks with an inter-axis distance of 72 mm

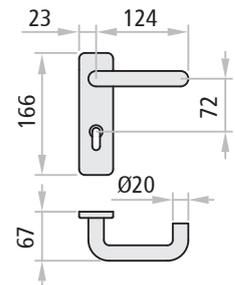


## COLORED DOOR HANDLES

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 backplates with a Euro profile cylinder hole, a 9 x 9 square spindle, fastener screws and spacers.



M1C colored RAL1023

### Colors available:

RAL	RAL	RAL	RAL	RAL
1023	7016	7035	9006*	9010

\*light aluminum

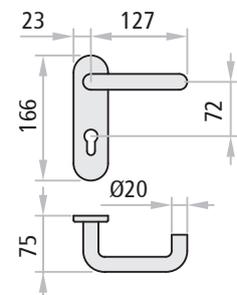
Versions	description	functioning	use
<p>M1C</p>	<p>handle/handle combination with cylinder hole on both sides. For combination with locks with an inter-axis distance of 72mm (015)</p>	<p>door opening by handle or key from both sides</p>	<p>applications in which both door opening directions are accessible without a key</p>
<p>M2C</p>	<p>handle/doorknob combination with cylinder hole on both sides. For combination with locks with an inter-axis distance of 72mm (015)</p>	<p>the doorknob side requires the key for opening</p>	<p>applications in which only one of the door opening directions works with a key</p>

## STAINLESS STEEL DOOR HANDLES

On request, satin-finished stainless steel AISI 304 levers and backplates 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 and M2X 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 a 9 x 9 square spindle, fastener screws and spacers.



M1 INOX handle

Versions	description	functioning	use
<p>M1X</p>	<p>handle/handle combination with cylinder hole on both sides. For combination with locks with an inter-axis distance of 72mm (015)</p>	<p>door opening by handle or key from both sides</p>	<p>applications in which both door opening directions are accessible without a key</p>
<p>M2X</p>	<p>handle/doorknob combination with cylinder hole on both sides. For combination with locks with an inter-axis distance of 72mm (015)</p>	<p>the doorknob side requires the key for opening</p>	<p>sostituire con „applications in which only one of the door opening directions works with a key</p>

### NOTE

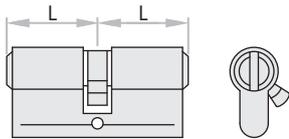
The M2C and M2X models are not combinable with the 3 point locking mechanism. Handles are considered as accessories and require assembly. Cylinders need to be ordered separately.

## CYLINDERS

On request Rever, Univer and Proget doors with standard locks (Std 015) 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 to pass (double)



Double 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

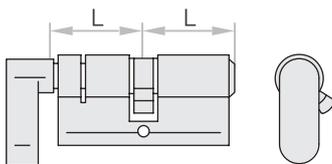


Lengths available	for door leaf thickness
40/40	60 mm
35/35	50 mm
30/30	40 mm

#### ATTENTION

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

### Cylinders to pass for thumbturn latch



Double 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

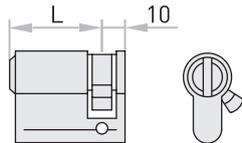
Cylinders are considered to be accessories and assembly is required. Cylinders to be combined with locks of NINZ doors must meet DIN 18254 standards.

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

## CYLINDERS FOR COMBINATION WITH PANIC BARS

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 not to pass (half)



Half 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



#### Lengths available

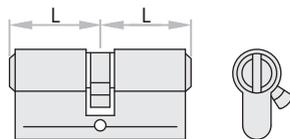
#### for door leaf thickness

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

#### ATTENTION

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

### Cylinders to pass (double) in combination with EXUS DC panic bars



Double 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

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

#### NOTE

Cylinders are considered to be accessories and assembly is required.  
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.

## 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

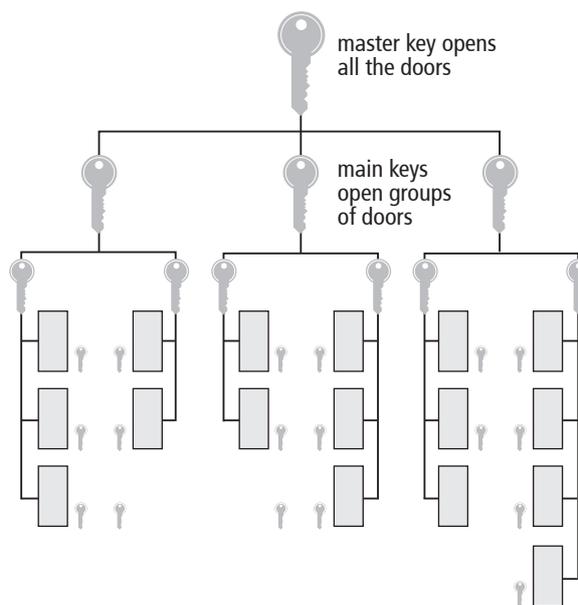
Grouped master key system in which each cylinder can be opened with its own key or with a master key that can open cylinders from one group but not others; a general master key can open all cylinders from all different groups. Standard cylinders closed from the interior with a thumb-turn latch cannot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

For REVER - UNIVER - PROGET doors



## 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.

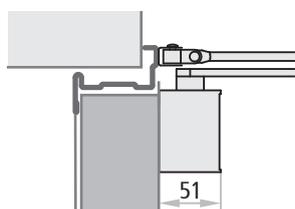
### CP1 with scissor arm

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

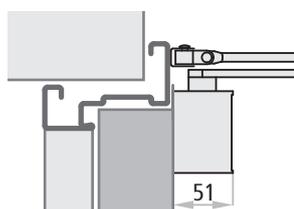
Rever, Univer and Proget doors are available, on request, with an overhead CP1 door closer with a silver-colored scissor arm.

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

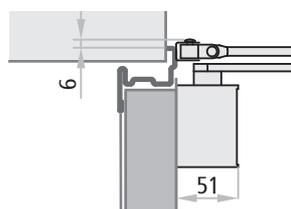
Proget doors ordered with CP1 are provided with pre-drilled installation holes on the door leaf and the frame. Standard Univer and Proget doors include internal reinforcements for the CP1 application.



CP1 UNIVER



CP1 PROGET



CP1 REVER

Optional colors:		
dark bronze	RAL 9016 white	RAL 9005 black

**NOTE**  
Arm protrusion = 290 mm



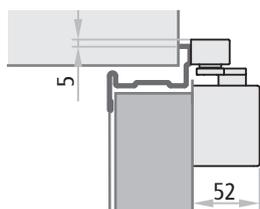
### CP2 with slide channel

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

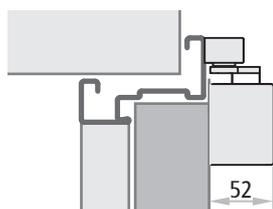
On request Rever, Univer and Proget doors are available with an overhead CP2 door closer with slide channel. Relative to the CP1, the advantage of this system is the absence of a protruding of scissor arm.

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

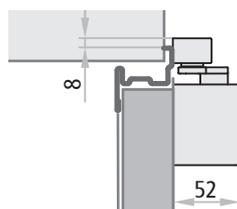
Proget doors ordered with CP2 are provided with pre-drilled installation holes on the door leaf and the frame. Standard Univer and Proget doors include internal reinforcements for the CP2 application.



CP2 UNIVER



CP2 PROGET



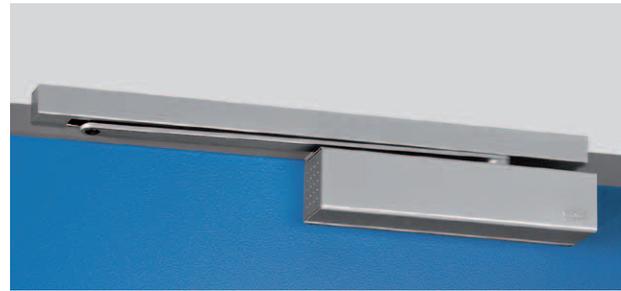
CP2 REVER

Optional colors:		
dark bronze	RAL 9016 white	RAL 9005 black



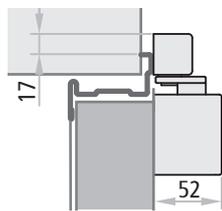
## CP2-EMF with slide channel and electro-mechanical hold open device

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.  
 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.

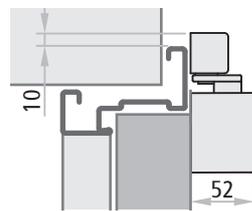


**Optional colors:**

dark bronze	RAL 9016 white	RAL 9005 black



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	secondary leaf				
CP1	180°	180°	180°	-	-	0432-BPR-0054	EN 1154
CP2	180°	180°	180°	-	-	0432-BPR-0051	EN 1154
CP2 EMF	120°	120°	120°	24V DC	58,3mA	0432-BPR-0051 0432-BPR-0025	EN 1154 EN 1155

### ATTENTION

In case of opening of the door at an angle of more than 90° and hindered by a wall or other impediments, in order to avoid any damages to the handles and door closer or the leaf itself, the customer shall provide to install a door stopper to the floor or onto the wall. This is applicable also for doors with or without door closer excluding those where an electromagnet is installed.

# Closing regulators

For UNIVER - PROGET fire doors

## CLOSING REGULATOR

Closing regulators administer the closure of two-leaved doors so that the secondary 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.

### 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.

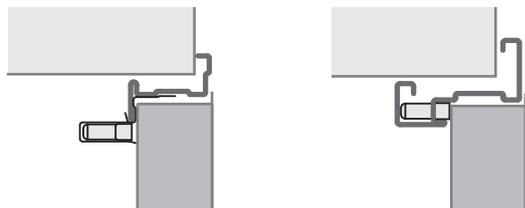
### RC/STD

**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.

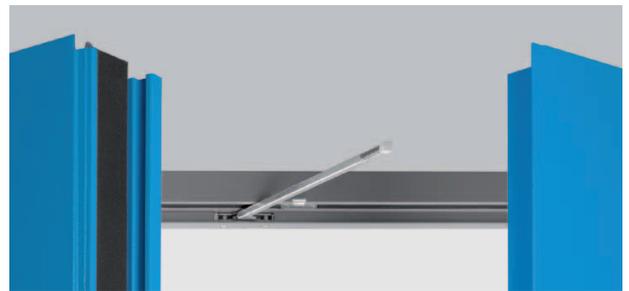
In Proget doors the closing regulator is inserted into the upper horizontal groove of the frame, while in Univer doors it is supplied separately with an anchoring rod to be installed on site. In comparison with other regulators which are separate from the door closer, the advantage of the RC/STD regulator 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.



UNIVER

PROGET



### RC2 system

**CE** marked in conformity with EN 1154 and EN 1158.

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

The RC2 closing regulator system is incorporated into the door closer, and consists of 2 CP2 with force EN 4 with a slide channel and a regulator integrated in the upper sliding guide. The entire system is silver colored.

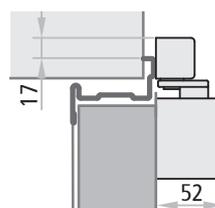
### The RC2 system presents clear advantages:

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

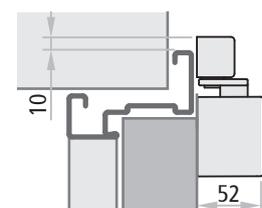
The RC2 regulator is suited for use on fire doors and is classified for both door closers with force EN4.

Minimum wall opening width of 1200 mm and minimum of 370 mm for the secondary leaf.

Proget doors ordered with RC2 are provided with pre-drilled holes for the installation of 2 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.



RC2 UNIVER



RC2 PROGET

### Optional colors:

	<b>RAL 9016</b>	<b>RAL 9005</b>
dark bronze	white	black
		

# Closing regulators

For UNIVER - PROGET fire doors



UNIVER fire door

## RC2-EMF1 SYSTEM

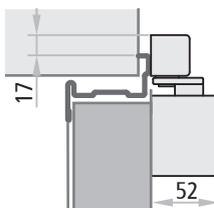
CE marked in conformity with EN 1154, EN 1158 and EN 1155. The RC2-EMF1 system differs from the RC2 in that it has an electro-mechanical hold-open device that allows the door leaf to be locked at an angle ranging from approx. 80° to 130°. The active leaf is held open by the closing regulator system. 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:

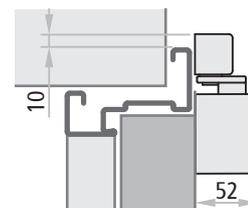
- possibility of holding the leaves open in the desired position
- no visible magnets
- no protruding door closer arms
- regulator concealed in the upper guide (even when the door is open)
- controlled closure of both leaves

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 secondary 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

**Optional colors:**

dark bronze	RAL 9016 white	RAL 9005 black

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

### ATTENTION

In case of opening of the door at an angle of more than 90° and hindered by a wall or other impediments, in order to avoid any damages to the handles and door closer or the leaf itself, the customer shall provide to install a door stopper to the floor or onto the wall. This is applicable also for doors with or without door closer excluding those where an electromagnet is installed.

# Automatic door sweep

For NINZ doors

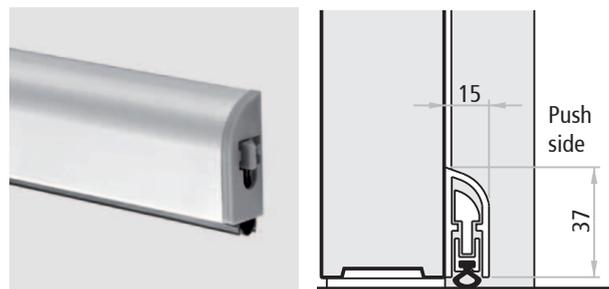


## AUTOMATIC DOOR SWEEP

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

### UNIVER fire doors

	FM L one-leaved door	L1 active leaf	L2 passive 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
passive leaf with 30x4mm profile	from 814 to 913 mm	from 814 to 913 mm	from 745 to 844 mm	L 830 mm
	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

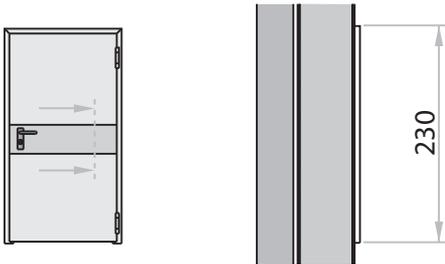
# Protection plates - Drip-steel profile

For NINZ doors

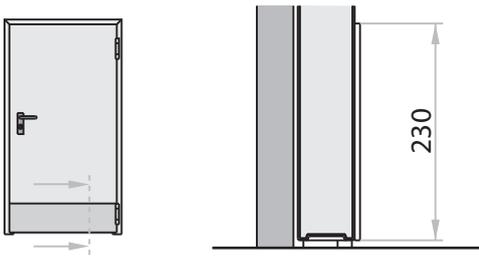


## PROTECTIVE PLATES AND KICKPLATES

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 satinized 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



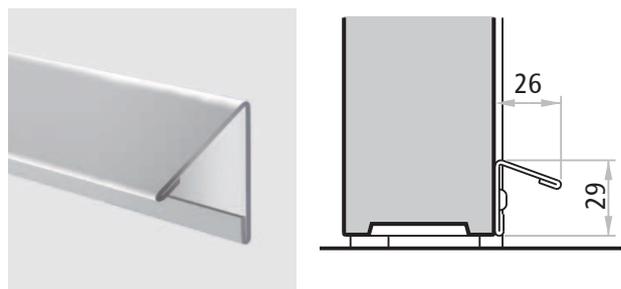
Holes are factory prepared for the passage of the handle panel and cylinder



Example of application on the push side

## 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
710 mm	to 800
810 mm	to 900
910 mm	to 1000
1260 mm	to 1350

# MAC® Multifunctional Access Control

## Controlled opening system



The MAC system makes it possible to activate the handle to open the door using the same mechanical components as for normal functioning.

The particularity of the MAC system is that it concentrates all of the command and control functions in the lock, which simplifies the electrical work required on site.

### 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 millise., 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 backplate 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



Plastic handle with LEDs



Stainless steel handle with LEDs



Double electrical contacts between leaf and doorframe

# MAC<sup>®</sup> Multifunctional Access Control

## Controlled opening system

**NINZ**<sup>®</sup>  
FIREDOORS

The MAC system can be delivered installed onto the door with cables inside the door leaf and electrical contacts between the leaf and the doorframe, or as a KIT with a cable sleeve for the power supply.

*Delivery together with the door features these installed accessories: lock (anti-panic only for MAC1) 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 backplate 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 sleeve onto the door leaf (not supplied) is necessary for the power supply.*

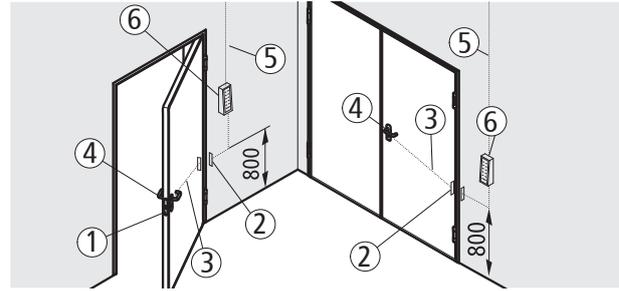


Diagram of components

### NOTE

The MAC system installed onto doors REI 120 has been fire tested, and proved to not influence negatively the door's performance.

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.

## MAC 1 SYSTEM

### Operation mode

The MAC 1 system controls access from the pull side of the door. With the lock locked by key, opening is only possible with electrical consent (button, switch, badge reader, etc.) which activates the handle, 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.

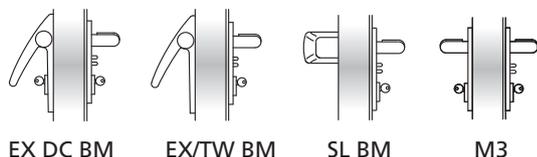
### Time mode

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 mode

"open setting": in this mode, handle activation is controlled by an electrical switch (not included) that provides continuous power to the MAC 1 lock. 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 full closure.

**MAC 1 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

## MAC 2 SYSTEM

### Operation mode

The MAC 2 system controls access from both sides of the door. With the lock locked by key, opening is only possible with electrical consent (button, switch, badge reader, etc.) which activates both handles. 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.

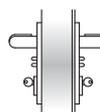
### Time mode

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 mode

"open setting": in this mode, the activation of both handles is controlled by an electrical switch (not included) that provides continuous power to the MAC 2 lock. 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 full closure.

**MAC 2 standard delivery with M1 plastic handle. Upon request an M1X stainless steel handle can be delivered (to be ordered on the side).**



M1

### NOTE

The MAC system installed onto doors REI 120 has been fire tested, and proved to not influence negatively the door's performance. 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.

# Electric handles

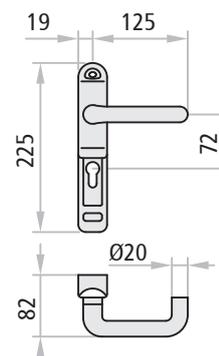
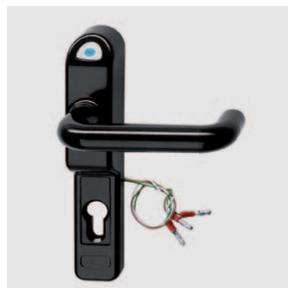
Controlled opening system

**NINZ**<sup>®</sup>  
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

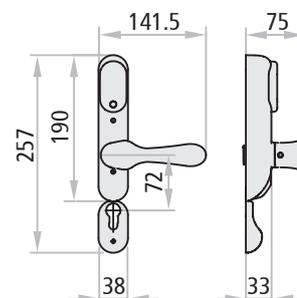
power supply	12-24V AC/DC
current absorbed at 12V	500mA
current absorbed at 24V	200mA
startup current at 12V	700mA
startup current at 24V	300mA
minimum operating temperature	-5°C

## ELM/CISA MULTI-VOLTAGE CISA 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	330mA
startup current	800mA
operational temperature	-20°C ÷ +80°C
max. relative ambient humidity	95%

### NOTE

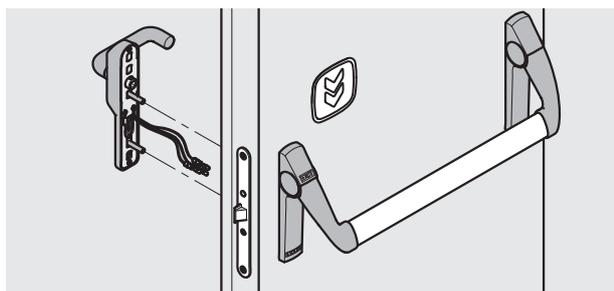
The electric handle requires assembly.

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

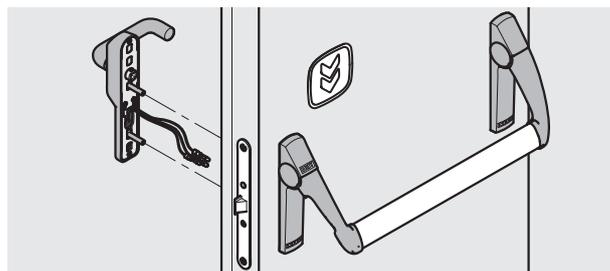
### Panic bars

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.

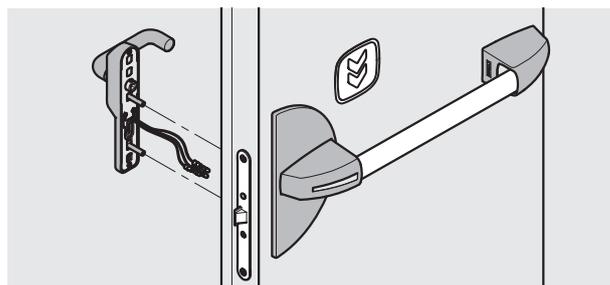
Use: one- or two-leaved doors for anti-panic exits when access control is desired on the pull side.



Twist



Exus

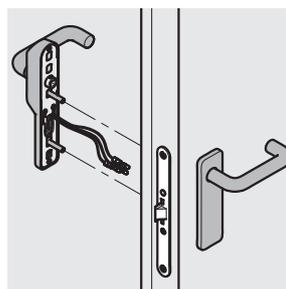


Slash

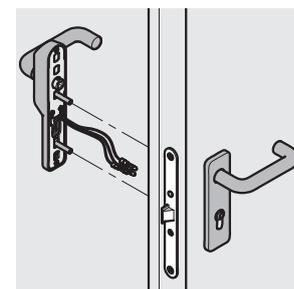
### MSC handles

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



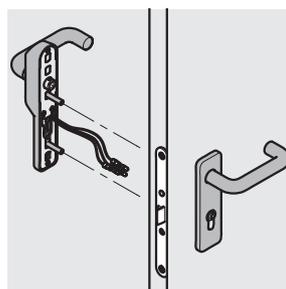
MCC/S

### MCC/S handles

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 handles

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.

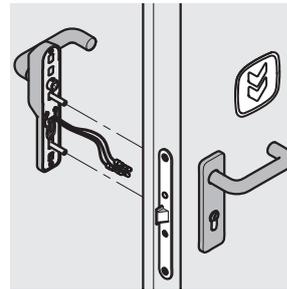


MCC/T

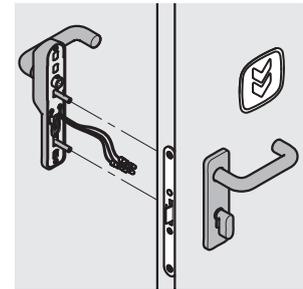
## **OPENING SYSTEM FOR COMBINATION WITH ELM/ MT ELECTRIC HANDLE**

### **M3 emergency handles**

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 emergency handle.



M3



HOT-CIL

### **HOT/CIL emergency handles**

Use: for the doors of hotel rooms  
The controlled opening direction is from the push side of the door (electric handle side). Closing with the thumb-turn latch from inside the room, the opening by electric handle is possible only with an electric consent. Opening is always possible from the room side of the door.

# Door blocking electromagnet

Controlled opening system

**NINZ**<sup>®</sup>  
FIREDOORS

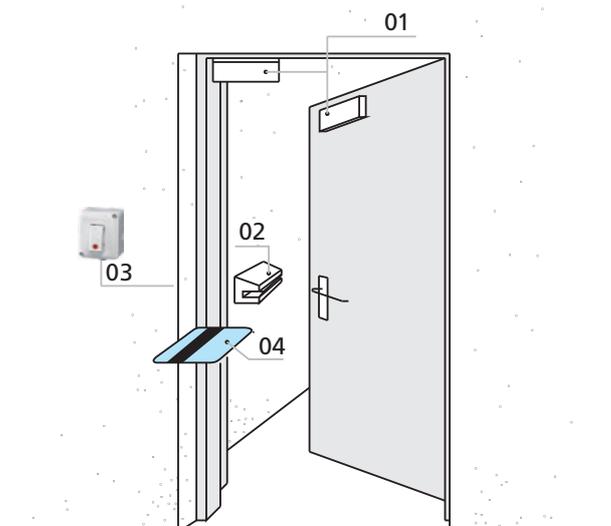
## DOOR BLOCKING ELECTROMAGNET

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.

### Operation 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
withstand 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 "TOCA access" 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

Power supply 12-18V AC/DC with 10 numeric buttons plus an Enter key, including control unit for 1 door and timer incorporated (0,5÷25 sec.). Up to 500 recordable different codes, composed from 1 to 6 digits.



„Access“ code keypad

### Card-based control system

Card control system with timer incorporated, including Badge reader, control unit, flat cable, external 230V DC/15V DC transformer, three blank badges and a coded badge.



Card-based control system

### „TOCA access“ biometric reader

„TOCA access“ biometric reader for reading fingerprints and transforming them into key codes. Includes an internal unit for registering, memorizing and cancelling users and external unit for fingerprints. Autonomous low voltage 9V AC power supply.



Biometric reader

### Unlock button

Unlock button with white casing and control light.



Unlock button

### Power Supply Switching 12V DC - 3A

With different management options:

- 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 \*



Power supply switching 12V DC-3A

\* provided that they are not commanded simultaneously

# Door-holding systems

For fire doors and gates



## C2 MONO-ZONE MICROPROCESSOR

Certified in accordance with EN 54-2 and EN 54-4 standards.

The processor was designed and built in conformity with UNI EN 54 standards, which regulate processors for fire alarms and related accessories which each must conform with EN 54 standards.

### 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

### ATTENTION

According to standard EN 54-4, it is obligatory for the mono-zone processor 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

## RFC HEAT AND SMOKE DETECTOR

Certified in accordance with UNI EN 54-5 and EN 54-7 standards.

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

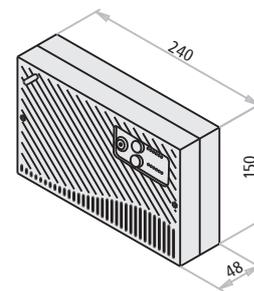
operational voltage	10 ÷ 30V DC, typically 24V DC
consumption at rest, at 24V DC	70µA
absorption of alarm at 24V DC	50mA

## BUFFER BATTERIES

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

### NOTE

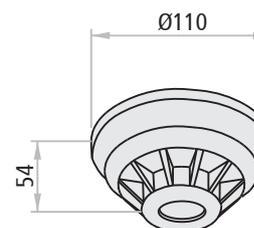
All DOOR-HOLDING SYSTEMS are supplied in separate packaging and require on-site assembly.



This is a control unit which administers the door-holding electromagnets for fire doors, where standards require consideration of every possible and imponderable event that could happen during normal functioning. The following, therefore, are subject to constant monitoring: all exits towards the smoke and heat detectors, the alarm and reset buttons, the external siren and the charge of the two batteries. The microprocessor itself, which functions as the brain of the system, is constantly monitored at regular intervals by a specific system routine that checks for proper functioning of the operational software. Any hitches, breakdowns or malfunctions are signaled by one of the ten LED diodes on the front panel, and the internal buzzer provides an additional acoustic signal for specific cases. Alarm or breakdown situations can then be reset at three different levels depending on the seriousness of the event: by a button located near the microprocessor, by a first button on the front of the microprocessor unit and by a second button on the same panel that requires key selector activation (key in possession of the safety manager). A fourth reset level is then supplied for the circuit only (operation executable by authorized technical personnel only).

### 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



### Technical data

operational temperature	-40°C ÷ +60°C
conformity with	EN 54-5, EN 54-7 standards



# Door-holding systems

For fire doors and gates

## ELECTRONIC SIREN

Includes a volume control function for installation in internal and external environments. The connection is made using double clamps (6) for branching.

### 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



With 28 or 32 selectable tones and a second tone for two-phase alarms.

Dimensions:  
Ø 91 x 91mm.

## ALARM ACTIVATION BUTTON

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



In red color ABS with a weight of 110 gr.

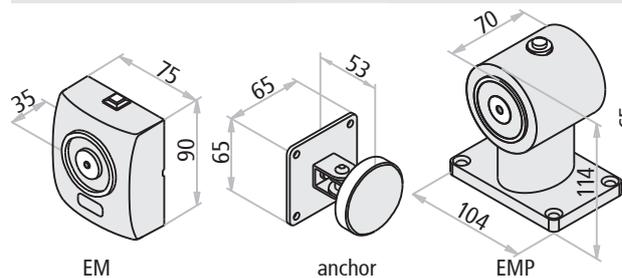
Dimensions:  
99 x 95 x 43mm.

## EM-EMP ELECTROMAGNETS

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

### Technical data

power supply	24V DC
absorption	60mA
minimum withstand force	55kg.
CE certification	0407-CPD-011 (IG-098-2004) /04
conformity with standard	EN 1155



## EMr ELECTROMAGNET

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
withstand force - release force	50kg. - settable between 4 and 12kg.
CE certification	0407-CPD-095 (IG-208-2006)
conformity with standard	EN 1155



### NOTE

All DOOR-HOLDING SYSTEMS are supplied in separate packaging and require on-site assembly.

# Emergency exit devices

NINZ

UNIVER  
fire door

**"safety is in  
your hands"**



## 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.

### NOTE

Handles are considered to be accessories and assembly is required.

# 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 backplates are made of black plastic, and the core of the lever and the internal 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 2880 mm/leaf, mass up to 300 kg/leaf, with ratings up to EI<sub>120</sub> - REI120 and smoke resistance, handle protrusion of 65 mm

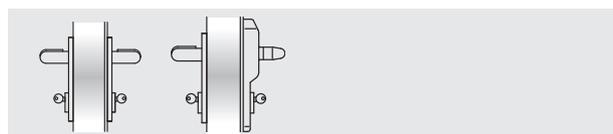
### Applications

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.

### Operation 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

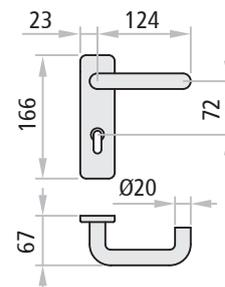


M3

M3 ELM/mt

## VARIATIONS ON REQUEST

- MAC1 type panic lock, including access control mode
- Panic lock with 3 closing points (for multipurpose PROGET doors only)
- Mastered or coded cylinders



## SUPPLIED TOGETHER WITH THE DOOR

### For single leaves or the active leaf (main leaf) of two-leaved doors:

*Included (mounted on the door):* anti-panic lock with 65 mm entrance and the strike box insert.

*Included (in the package):* Nr. 2 black plastic lever handles, Nr. 2 galvanized steel internal installation plates, Nr. 2 black plastic backplates, Nr. 1 split square spindle, Nr. 1 standard nickel-plated double cylinder 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 65 mm entrance, Nr. 1 strike box insert, Nr. 2 black plastic lever handles, Nr. 2 galvanized steel internal installation plates, Nr. 2 black plastic backplates, Nr. 1 split square spindle, Nr. 1 standard nickel-plated double cylinder 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 internal installation plates are made of AISI 304 satinized stainless steel, and the backplates 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 2880 mm/leaf, mass up to 300 kg/leaf, with fire resistance up to EI<sub>120</sub> - REI120 and smoke resistance, handle protrusion of 75 mm

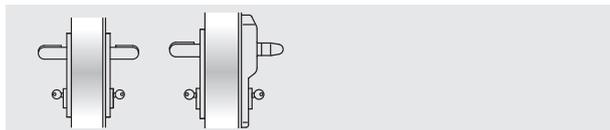
### Use

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.

### Operation 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

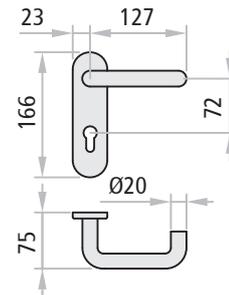


M3X

M3X ELM/mt

## VARIATIONS ON REQUEST

- MAC1 panic lock, including access control system
- Panic lock with 3 closing points (for multipurpose PROGET doors only)
- Mastered or coded cylinders



## SUPPLIED TOGETHER WITH THE DOOR

### For single leaves or the active leaf (main leaf) of two-leaved doors:

*Included (mounted on the door):* anti-panic lock with 65 mm entrance and the strike box insert.

*Included (in the package):* Nr. 2 stainless steel lever handles, Nr. 2 galvanized steel internal installation plates, Nr. 2 stainless backplates, Nr. 1 split square spindle, Nr. 1 standard nickel-plated double cylinder 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 65 mm entrance, Nr. 1 strike box insert, Nr. 2 black plastic lever handles, Nr. 2 galvanized steel internal installation plates, Nr. 2 black plastic backplates, Nr. 1 split square spindle, Nr. 1 standard nickel-plated double cylinder 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 1350 x 2880 mm/leaf and a mass of 300 kg/leaf

UNIVER  
fire door

<b>Denomination</b>	M3, M3X DEVICE FOR EMERGENCY EXITS
<b>Manufacturer</b>	Ninz S.p.A. Corso Trento, 2/A I-38061 ALA (TN)/ITALY
<b>Year application trademark</b>	10
<b>Nr. and year of the standard</b>	EN 179:2008
<b>Certifying body</b>	0425
<b>CE certificate Nr.</b>	2147-CPD-2010
<b>Classification</b>	<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

		<b>ATTESTATO DI CONFORMITÀ</b> DIRETTIVA 89/106/CEE		
		<b>CERTIFICATE OF CONFORMITY</b> DIRETTIVA 89/106/CEE		0425
<small>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)</small> <small>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)</small>				
<b>ATTESTATO N°</b>	<b>2147 - CPD - 2010</b>		<b>CERTIFICATE N°</b>	
<b>Organismo notificato</b>	ICIM S.p.A. - Piazza Don Mapelli, 75 - 20099 SESTO SAN GIOVANNI		<b>Notified Body</b> Identification number: 0425	
<b>Dati Fabbricante</b>	Sede legale: NINZ S.p.A. Corso Trento, 2/A 38061 ALA (TN) ITALY Unità operativa:		<b>Manufacturer details</b> Head office: Production unit:	
<b>Dati prodotto</b>	<b>Product details</b>			
Tipologia	DISPOSITIVI PER USCITE DI EMERGENZA AZIONATI MEDIANTE MANIGLIA A LEVA O PIASTRA A SPINTA <b>EMERGENCY EXIT DEVICES OPERATED BY A LEVER HANDLE OR PUSH PAD</b>			Type
Denominazione	Dispositivo di emergenza serie "M3" "M3X"			Denomination
	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			Classification
<b>Eventuali estensioni</b>	Nessuna / None			<b>Extensions</b>
<b>Eventuali condizioni di subordinazione della Certificazione CE</b>	Nessuna / None			<b>Condition of subordination of CE certification</b>
<small>Il presente attestato è valido esclusivamente per il prodotto indicato. Eventuali varianti da apportare devono essere approvate da ICIM SpA</small> <small>The present certificate is valid only for the product described above. Every change has to be approved by ICIM S.p.A.</small>				
<b>Data di emissione</b> Issue date	<b>Emissione corrente</b> Current issue	<b>Data di scadenza</b> Expiring date	<b>ICIM S.p.A.</b> Il Presidente Ing. Tullio Badino	
12/03/2010	12/03/2010	11/03/2020		

# HOT-CIL Emergency handle

Emergency handle for internal locks - EN 179:2008

## 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 secondary 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 backplates are made of black plastic, while the core of the lever and the internal 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 2880 mm/leaf, mass up to 300 kg/leaf, with fire rating EI<sub>2</sub>120 - REI120 and smoke resistance, handle protrusion of 65 mm

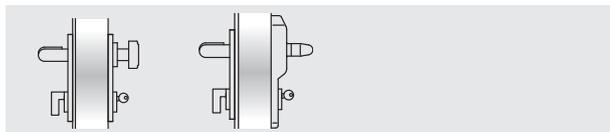
### Use

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.

### Operation mode

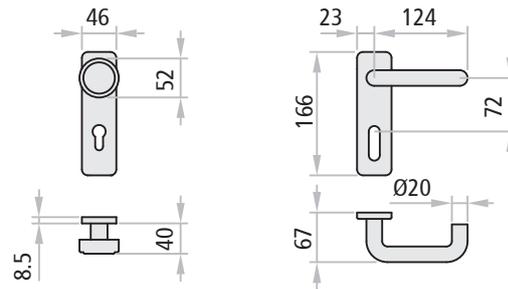
The door can be opened from the push side by key only, while it can be opened at any time from the pull side by pressing the handle, even when the lock is locked using the key. The lock has two bolts that protrude when the key or the thumbturn latch is turned.

## VERSIONS AVAILABLE



HOT-CIL

HOT-CIL ELM/mt



## SUPPLIED TOGETHER WITH THE DOOR

**For the single leaf or active leaf (main leaf) of two-leaved doors (the secondary 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 65 mm 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 internal installation plates, Nr. 2 black plastic backplates, Nr. 1 square spindle, Nr. 1 mastered cylinder to pass 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 door or the active leaf (main leaf) of two-leaved doors (the secondary 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 65 mm entrance, Nr. 1 strike box insert, Nr. 1 lever handle and Nr. 1 fixed doorknob in black plastic, Nr. 2 galvanized steel internal installation plates, Nr. 2 black plastic backplates, Nr. 1 square spindle, Nr. 1 mastered cylinder to pass 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**<sup>®</sup>  
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 secondary 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 plates are made of AISI 304 satinized stainless steel, while the backplates 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 1350 x 2880 mm/leaf, masses up to 300 kg/leaf, fire rated to EI<sup>2</sup>120 - REI120 and smoke resistance, handle protrusion of 75 mm

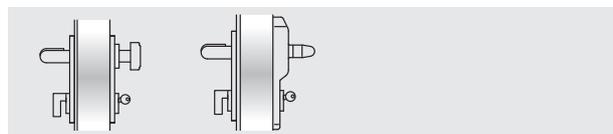
### Application

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.

### Operation mode

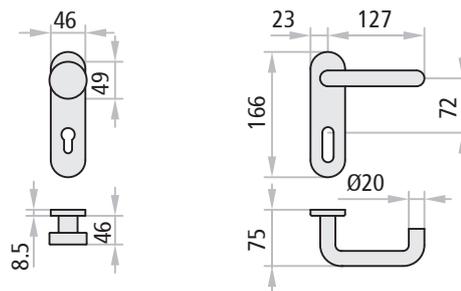
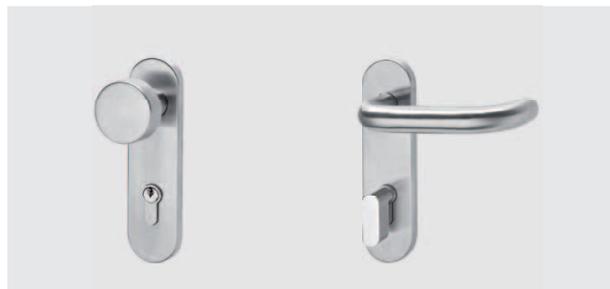
The door can be opened from the push side by key only, while it can be opened at any time from the pull side by pressing the handle, even when the lock is locked using the key. The lock has two bolts that protrude when the key or the thumbturn latch is turned.

## VERSIONS AVAILABLE



HOT-CIL-X

HOT-CIL-X ELM/mt



## SUPPLIED TOGETHER WITH THE DOOR

**For the single leaf or active leaf (main leaf) of two-leaved doors (the passive leaf (secondary) normally remains closed and can only be opened manually using the bolt lock (019)):**

*Included (mounted on the door):* the anti-panic lock with 65 mm entrance and the strike plate insert.

*Included (in the package):* Nr. 1 lever handle and Nr. 1 fixed doorknob in satinized stainless steel, Nr. 2 galvanized steel internal installation plates, Nr. 2 backplates in satinized stainless steel, Nr. 1 square spindle, Nr. 1 mastered cylinder to pass 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 door or the active leaf (main leaf) of two-leaved doors (the passive leaf (secondary) 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 65 mm entrance, Nr. 1 strike plate insert, Nr. 1 lever handle and Nr. 1 fixed doorknob in satinized stainless steel, Nr. 2 galvanized steel internal installation plates, Nr. 2 backplates in satinized stainless steel, Nr. 1 square spindle, Nr. 1 mastered cylinder to pass 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 1350 x 2880 mm/leaf, masses of 300 kg/leaf.

<b>Denomination</b>	HOT-CIL, HOT-CIL-X EMERGENCY EXIT DEVICE
<b>Manufacturer</b>	Ninz S.p.A. Corso Trento, 2/A I-38061 ALA (TN)/ITALY
<b>Year application trademark</b>	10
<b>Nr. and year of the standard</b>	EN 179:2008
<b>Certifying body</b>	0425
<b>CE certificate Nr.</b>	2149-CPD-2010
<b>Classification</b>	<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

		<b>ATTESTATO DI CONFORMITÀ</b> DIRETTIVA 89/106/CEE <b>CERTIFICATE OF CONFORMITY</b> DIRETTIVA 89/106/CEE		
<small>Questo certificato è rilasciato in conformità a quanto prescritto dall'Art.5 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 21th 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 21th April 1993, n° 246 (89/106/CE Directive)</small>				
<b>ATTESTATO N°</b>	<b>2149 - CPD - 2010</b>		<b>CERTIFICATE N°</b>	
<b>Organismo notificato</b>	ICIM S.p.A. - Piazza Don Mapelli, 75 - 20099 SESTO SAN GIOVANNI		<b>Notified Body</b> Identification number: 0425	
<b>Dati Fabbricante</b>	Sede legale: NINZ S.p.A. Corso Trento, 2/A 38061 ALA (TN) ITALY Unità operativa:		<b>Manufacturer details</b> Head office: Production unit:	
<b>Dati prodotto</b>	Tipologia: <b>DISPOSITIVI PER USCITE DI EMERGENZA AZIONATI MEDIANTE MANIGLIA A LEVA O PIASTRA A SPINTA</b> <b>EMERGENCY EXIT DEVICES OPERATED BY A LEVER HANDLE OR PUSH PAD</b>		<b>Product details</b> Type:	
Denominazione	Dispositivo di emergenza	serie "HOT-CIL" "HOT-CIL-X"	Denomination	
Serrature antipánico	art. 3201001.011			
Coppia di deviatori	art. 4201010			
Riscontro serratura	art. 2401006, 2401005, 2401015, 2401014			
Comandi	art. 3101001.012 (M2), 3101017.002 (M2X)			
Sistema di attestazione della conformità		1	System of attestation of conformity	
Norma di riferimento		EN 179:2008	Standard reference	
Classificazione		<b>3   7   7   B   1   4   4   2   A   D</b>	Classification	
<b>Eventuali estensioni</b>	Nessuna / None		<b>Extensions</b>	
<b>Eventuali condizioni di subordinazione della Certificazione CE</b>	Nessuna / None		<b>Condition of subordination of CE certification</b>	

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.

<b>Data di emissione</b> Issue date	<b>Emissione corrente</b> Current issue	<b>Data di scadenza</b> Expiring date	<b>ICIM S.p.A.</b> Il Presidente Ing. Tullio Badino
12/03/2010	12/03/2010!	11/03/2020	

UNIVER fire door

# 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 secondary 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 plate are both made of black plastic, while the core of the lever and the internal installation plate are made of galvanized steel
- The safety lock is anti-panic fire rated, activates the vertical rods and ensures automatic closure
- Suitable for doors with dimensions up to 1350 x 2880 mm/leaf, masses up to 300 kg/leaf, with fire rating EI<sub>120</sub>
- REI120 and smoke resistance, handle protrusion of 65 mm

### Use

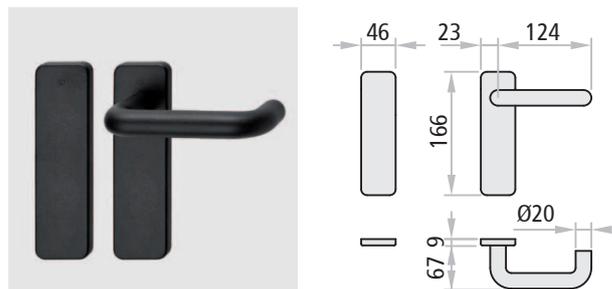
The M14 emergency exit handle is to be applied to doors designated for emergency situations in which the people involved are accustomed to using safety exits and their opening devices, and who are therefore highly unlikely to be in a state of panic.

The active (main) leaf must also be equipped with an anti-panic or emergency device.

### Operation 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.



### SUPPLIED TOGETHER WITH THE DOOR

#### For the secondary leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80 mm entrance, vertical rods, upper locking device, upper strike plate.

*Included (in the package):* Nr. 1 lever handle (black plastic), Nr. 2 galvanized steel internal installation plates, Nr. 2 blank black plastic backplates, 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 single leaf or the active 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 80 mm entrance, Nr. 1 lever handle (black plastic), Nr. 2 galvanized steel installation plates, Nr. 2 blank black plastic backplates, 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



## M14X IN STAINLESS STEEL

### Description

Lever handle for emergency exit:

- Reversible for right or left opening
- For application to the secondary 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 backplates are both made of AISI 304 satinized stainless steel, while the internal installation plates are made of galvanized steel
- The safety lock is anti-panic/fire rated, activates the vertical rods and ensures automatic closure
- Suitable for doors with dimensions up to 1350 x 2880 mm/leaf, mass up to 300 kg/leaf, with fire rating EI<sub>2</sub>120 REI120 and smoke resistance, handle protrusion of 65 mm

### 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.

### Operation 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 furnitures.

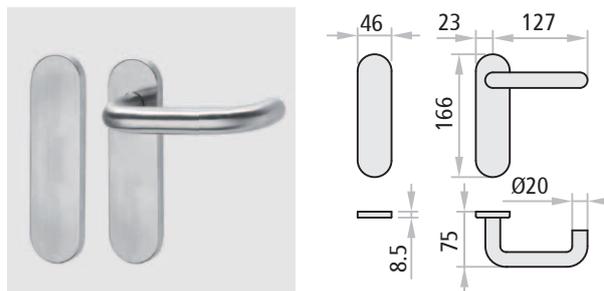
From the push side, opening is possible at any time by pushing on the handle, which causes the vertical rods to retract and at the same time pulls back the bolt of the active leaf's lock, unlatching both doors.

## M14, M14X CERTIFICATION

Suited for the secondary leaf of two-leaved doors with dimensions up to 1350 x 2880 mm/leaf, masses of 300 kg/leaf.

Denomination	M14 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	<b>3 7 7 B 1 4 4 2 A C</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 door: two-leaved, on the secondary leaf only



## SUPPLIED TOGETHER WITH THE DOOR

### For the secondary leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80 mm entrance, vertical rods, upper locking device, upper strike plate.

*Included (in the package):* Nr. 1 lever handle in satinized stainless steel, Nr. 2 galvanized steel internal installation plates, Nr. 2 blank backplates in satinized stainless steel, 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.

## KIT M14X VERSION

### (SUPPLIED SEPARATELY FROM THE DOOR)

### KIT for single leaf or the active 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 80 mm entrance, Nr. 1 lever handle in satinized stainless steel, Nr. 2 galvanized steel internal installation plates, Nr. 2 backplates in satinized stainless steel, 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 DIRETTIVE 89/106/CEE			
<small>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 21th April 1993, n°246 (89/106/CEE Directive) and certifies the compliance of the product to art. 1, art. 2 and annex A of DPR 21th April 1993, n°246 (89/106/CEE Directive).</small>			
ATTESTATO N°	2148 - CPD - 2010		
CERTIFICATE N°	0425		
Organismo notificato	ICIM S.p.A. - Piazza Don Mapelli, 75 - 20099 SESTO SAN GIOVANNI		
Notified Body	Identification number: 0425		
Dati Fabbricante	NINZ S.p.A. Corso Trento, 2/A 38061 ALA (TN) ITALY		
Manufacturer details	Head office: Corso Trento, 2/A 38061 ALA (TN) ITALY Production unit: [ ]		
Dati prodotto	Product details		
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 antipanic	art. AP020P, AP020U, 3201001.006		
Dispositivo superiore	art. 3105080, 3105024, 3305003		
Riscontro 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)		
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			
<small>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.</small>			
Data di emissione Issue date	Emissione corrente Current issue	Data di scadenza Expiring date	ICIM S.p.A. Il Presidente Ing. Tullio Badino
12/03/2010	12/03/2010!	11/03/2020	

UNIVER fire door

**EXUS<sup>®</sup>**

**NINZ<sup>®</sup>**  
FIREDOORS

**UNIVER**  
fire door



## 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 **satnized 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



ALUMINUM handle with STAINLESS STEEL lever handle and chromed ALUMINUM backplate



Satinized STAINLESS STEEL handle

### NOTE

By default external door furniture is provided with the same finishing as the panic bar.

# EXUS® - Features, certifications

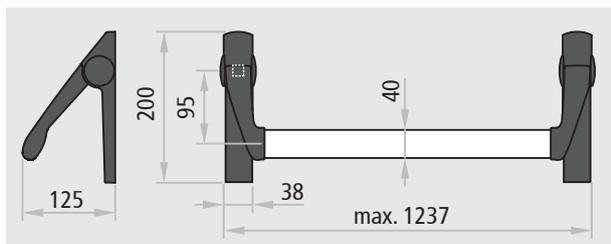
Panic bar



UNIVER  
fire door

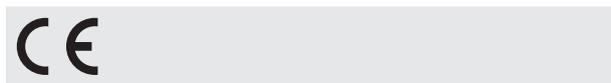
## FEATURES

- Newly designed product with state of the art technological concept
- Available several in color and surface combinations: satinized stainless steel for the lever arms and the bar, or aluminum with polished chrome lever arms and anodized aluminum bar, and finally the classic evergreen combination - black plastic lever arms with anodized aluminum bar
- Certified for internal lock with 40 or 65 mm entrances for single leaves or active leaves, with 30 or 80 mm entrance for secondary 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 125 mm
- 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



## CERTIFICATION

Suited for one-leaved doors or the active and secondary leaves of two-leaved doors with dimensions up to 1350 x 2880 mm/leaf, masses of 300 kg/leaf



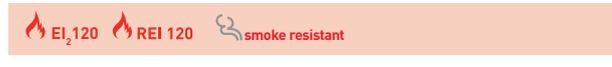
Denomination	EXUS PANIC BAR
Manufacturer	Ninz S.p.A. Corso Trento, 2/A I-38061 ALA (TN)/ITALY
Year application trademark	08
Nr. and year of the standard	EN 1125:2008
Certifying body	0425
CE certificate Nr.	1228-CPD-2007
Classification	<b>3 7 7 B 1 3 2 1 A A</b>

- 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 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:



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). <i>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/CEE) 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/CEE)</i>		
ATTESTATO N°	1228 - CPD - 2007	CERTIFICATE N°
Organismo notificato	ICIM S.p.A. - Piazza Don Mapelli, 75 - 20099 Sesto San Giovanni (MI) ITALY	Notified Body
Dati Fabbricante	Sede legale: NINZ S.p.A. Corso Trento, 2/A - 38061 ALA (TN) ITALY Unità operativa	Manufacturer Head office Operative unit
Dati prodotto	Tipologia: DISPOSITIVI ANTIPANICO PER USCITE DI SICUREZZA AZIONATI MEDIANTE UNA BARRA ORIZZONTALE PANIC EXIT DEVICES Denominazione: serie "TWIST" "EXUS LP" "EXUS LA" "EXUS LX" Serrature antipanico: art. AP1816, SCA 1 3201001.018020, MAC 1 3201001.041042, 4509002.17 (V), 3201001.018 48545-0 Controserrature antipanico: art. AP020P, AP020L, 4506002.18 (V), 3201001.6, 43190.95. Dispositivo superiore: art. 3105080, 3136024, 4506003 (V), 3305003. Riscritto asta: art. 2401005, 2401046, 2401044, 4506005 (V), 2401002. Boccola pavimento: art. 2401001, 2401007, 3106001, 4506008 (V), 2401020, 4415008. Deviatori: art. 4201010. Aste verticali: art. 3305015, 3306016, 3305002, 4506003 (V), 3305013, 990837. Riscritto serratura: art. 2401005, 2401005, 2401015, 2401014, 4506005 (V), 2401005, 2401005, 3412001. Comandi esterni: art. BM, BSP, BS, BMC, BC, B, A, BM inox, BM alla, BSP inox, BSP alla.	Product Type
Sistema di attestazione della conformità	1	Attestation of conformity
Norma di riferimento	EN1125:2008	Standard
Classificazione	3   7   7   B   1   3   2   1   A   A	Classification
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. <i>The present issue is valid only for the product described above. Possible changes to be brought in have to be approved by ICIM S.p.A.</i>		
Data di emissione First issue	Emissione corrente Current issue	Data di scadenza Expiring date
18/04/2007	04/08/2010	17/04/2017
		ICIM S.p.A. Il Presidente Ing. Tullio Badino

## EXUS® LP IN BLACK PLASTIC

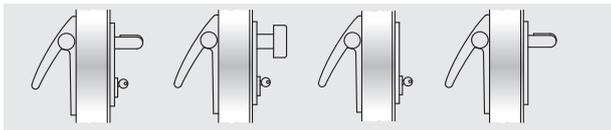


### Description

The EXUS LP panic exit device consists of an anodized aluminum horizontal bar that inserts into the lever arms attached to the command 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 40 x 20 mm and a length of 1150 mm
- Two black plastic lever arms with galvanized steel core
- The two command mechanisms are made of galvanized steel with black plastic cover plates, one of which has an EXIT label that identifies the lock side
- The lock is anti-panic/fire rated for Euro profile cylinders
- External door furniture and the backplate are made of black plastic, while the internal installation plate is made of galvanized steel
- DC version with double cylinder to pass

### VERSIONS AVAILABLE

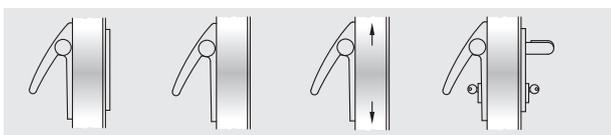


BM

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 and BSP door furnitures in satinized 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 leaves or the active leaf (main leaf) of two-leaved doors:

*Included (mounted on the door):*

*Included (in the package):* Nr. 2 door command mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 black plastic door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 double cylinder 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 secondary leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80 mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 command 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 65 mm entrance, Nr. 1 strike plate insert, Nr. 2 command 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 double cylinder 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 passive 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 80 mm entrance, Nr. 2 command 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 passive 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 80 mm entrance, Nr. 2 command 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

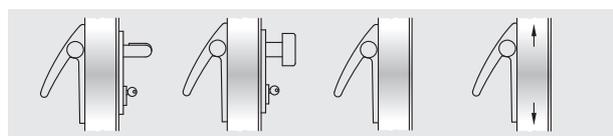


### Description

The EXUS LA panic bar consists of an anodized aluminum horizontal bar that inserts into lever arms attached to the command 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 40 x 20 mm and a length of 1150 mm
- The two lever arms are made of an aluminum alloy with a polished chrome finish
- The two command mechanisms are made of galvanized steel with aluminum alloy cover plates 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 furniture consist of the AISI 304 stainless steel handle or knob and the aluminum alloy backplate with polished chrome finish
- The arms, backplates and handle caps are finished with tri-valent chrome in compliance with the ROSH regulation
- DC version with double cylinder to pass

### VERSIONS AVAILABLE

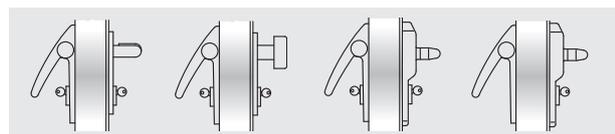


BM

BSP

B

A



DC BM

DC BSP

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 leaves or the active leaf (main leaf) of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65 mm entrance and the backplate insert

*Included (in the package):* Nr. 2 command mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 2 polished chrome aluminum lever arms, Nr. 1 anodized aluminum bar, Nr. 1 stainless steel/aluminum door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 double cylinder with 3 keys (DC version only), Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of instructions for installation/maintenance.

*Versions available:* BM, BSP, B (for Proget doors only), DC BM, DC BSP, DC ELM, ELM.

ELM electric handle: see the dedicated pages

### For the secondary leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80 mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 command 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 (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

## 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 65 mm entrance, Nr. 1 strike plate insert, Nr. 2 command mechanisms, Nr. 2 polished chrome aluminum carter covers, Nr. 2 polished chrome aluminum lever arms, Nr. 1 anodized aluminum bar, Nr. 1 stainless steel/aluminum external door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 double cylinder 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, DC BM, DC BSP

#### KIT for the passive 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 80 mm entrance, Nr. 2 command 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 passive 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 80 mm entrance, Nr. 2 command mechanisms, Nr. 2 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

## EXUS® LX IN STAINLESS STEEL

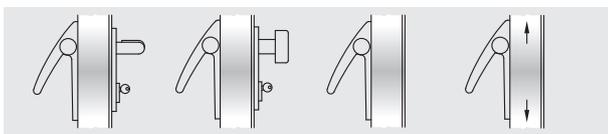


### Description

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 command 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 satinized stainless steel with an elliptical cross-section measuring 40 x 20 mm, length of 1150 mm
- The two lever arms are made of AISI 304 satinized stainless steel
- The two command mechanisms are made of AISI 304 stainless steel
- The two backplates and the cover caps are made of AISI 304 satinized 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 backplate are made of AISI 304 satinized stainless steel, while the internal installation plate is made of galvanized steel
- DC version with double cylinder to pass

### VERSIONS AVAILABLE

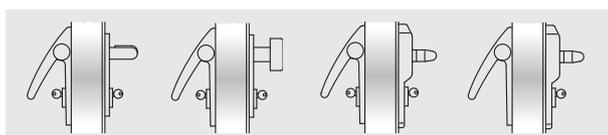


BM

BSP

B

A



DC BM

DC BSP

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 leaves or the active leaf (main leaf) of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65 mm entrance and the backplate insert

*Included (in the package):* Nr. 2 stainless steel command mechanisms, Nr. 2 stainless steel carter covers, Nr. 2 stainless steel lever arms, Nr. 1 stainless steel bar, Nr. 1 stainless steel door furniture, Nr. 1 half-cylinder with 3 keys, Nr. 1 double cylinder 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, B (for Proget doors only), DC BM, DC BSP, DC ELM, ELM.

ELM electric handle: see the dedicated pages

### For the secondary leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80 mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 stainless steel command 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 reversible anti-panic lock with 65 mm entrance, Nr. 1 strike plate insert, Nr. 2 stainless steel command 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 double cylinder 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, DC BM, DC BSP

#### KIT for the passive 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 80 mm entrance, Nr. 2 stainless steel command 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 passive 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 80 mm entrance, Nr. 2 stainless steel command 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

# Twist

NINZ®  
FIREDOORS

UNIVER  
fire door



### 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 exit device 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 an **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 a 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 exit device, 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

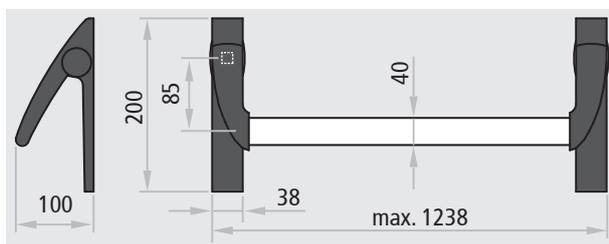
Panic bar



UNIVER  
fire door

## 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 65 mm entrance for single leaves or active leaves, and with an 80 mm entrance for secondary leaves
- Reversible for mounting on Right or Left doors
- Protrusion 100 mm
- 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:



## CERTIFICATION

Suited for one-leaved doors or the active and secondary leaves of two-leaved doors with dimensions up to 1350 x 2880 mm/leaf, masses of 300 kg/leaf

Denomination	TWIST 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.	1228-CPD-2007
Classification	<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

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 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°	1228 - 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																																												
Dati prodotto	<table border="1"> <thead> <tr> <th>Tipologia</th> <th colspan="2">DISPOSITIVI ANTIPANICO PER USCITE DI SICUREZZA AZIONATI MEDIANTE UNA BARRA ORIZZONTALE PANIC EXIT DEVICES</th> <th>Product Type</th> </tr> </thead> <tbody> <tr> <td>Denominazione</td> <td>Dispositivo antipanic</td> <td>serie "TWIST" "EXUS LPP" "EXUS LA" "EXUS LX"</td> <td>Denominazione</td> </tr> <tr> <td></td> <td>Struttura antipanic</td> <td>art. AP18/18, SCA 1 3201001.019/20, MAC 1 3201001.041/042, 4509002.17 (V), 3201001.018, 485-05-0.</td> <td></td> </tr> <tr> <td></td> <td>Controstruttura antipanic</td> <td>art. AP02PP, AP02OU, 4509002.18 (V), 3201001.6, 43190.35.</td> <td></td> </tr> <tr> <td></td> <td>Dispositivo superiore</td> <td>art. 3105080, 3105024, 4509003 (V), 3309003.</td> <td></td> </tr> <tr> <td></td> <td>Riccontro asta</td> <td>art. 2401036, 2401046, 2401044, 4509006 (V), 2401002.</td> <td></td> </tr> <tr> <td></td> <td>Boccola pavimento</td> <td>art. 2401001, 2401007, 3105091, 4509006 (V), 2401020, 4419008.</td> <td></td> </tr> <tr> <td></td> <td>Deviatori</td> <td>art. 4201010.</td> <td></td> </tr> <tr> <td></td> <td>Aste verticali</td> <td>art. 3305015, 3338016, 3305002, 4509003 (V), 3305013, 990837.</td> <td></td> </tr> <tr> <td></td> <td>Riccontro serratura</td> <td>art. 2401006, 2401005, 2401016, 2401014, 4509006 (V), 2401005, 2401005, 3412001.</td> <td></td> </tr> <tr> <td></td> <td>Comandi esterni</td> <td>art. BM, BSP, BS, BMC, BC, B, A, BM inox, BM alu, BSP inox, BSP alu.</td> <td></td> </tr> </tbody> </table>		Tipologia	DISPOSITIVI ANTIPANICO PER USCITE DI SICUREZZA AZIONATI MEDIANTE UNA BARRA ORIZZONTALE PANIC EXIT DEVICES		Product Type	Denominazione	Dispositivo antipanic	serie "TWIST" "EXUS LPP" "EXUS LA" "EXUS LX"	Denominazione		Struttura antipanic	art. AP18/18, SCA 1 3201001.019/20, MAC 1 3201001.041/042, 4509002.17 (V), 3201001.018, 485-05-0.			Controstruttura antipanic	art. AP02PP, AP02OU, 4509002.18 (V), 3201001.6, 43190.35.			Dispositivo superiore	art. 3105080, 3105024, 4509003 (V), 3309003.			Riccontro asta	art. 2401036, 2401046, 2401044, 4509006 (V), 2401002.			Boccola pavimento	art. 2401001, 2401007, 3105091, 4509006 (V), 2401020, 4419008.			Deviatori	art. 4201010.			Aste verticali	art. 3305015, 3338016, 3305002, 4509003 (V), 3305013, 990837.			Riccontro serratura	art. 2401006, 2401005, 2401016, 2401014, 4509006 (V), 2401005, 2401005, 3412001.			Comandi esterni	art. BM, BSP, BS, BMC, BC, B, A, BM inox, BM alu, BSP inox, BSP alu.	
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	Boccola pavimento	art. 2401001, 2401007, 3105091, 4509006 (V), 2401020, 4419008.																																												
	Deviatori	art. 4201010.																																												
	Aste verticali	art. 3305015, 3338016, 3305002, 4509003 (V), 3305013, 990837.																																												
	Riccontro serratura	art. 2401006, 2401005, 2401016, 2401014, 4509006 (V), 2401005, 2401005, 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	Attestation of conformity																																												
Norma di riferimento	EN1125:2008	Standard																																												
Classificazione	3   7   7   B   1   3   2   1   A   A																																													
Eventuali estensioni	Nessuna / None																																													
Eventuali condizioni di subordinazione della Certificazione CE	Nessuna / None																																													
Il presente attestato è valido esclusivamente per il prodotto indicato. Eventuali varianti da apportare devono essere approvate da ICIM S.p.A. The present issue is valid only for the product described above. Possible changes to be brought in have to be approved by ICIM S.p.A.																																														
Data di emissione First issue	Emissione corrente Current issue	Data di scadenza Expiring date																																												
18/04/2007	04/08/2010	17/04/2017																																												
		 ICIM S.p.A. Il Presidente Ing. Tullio Basilio																																												

## TWIST IN BLACK PLASTIC

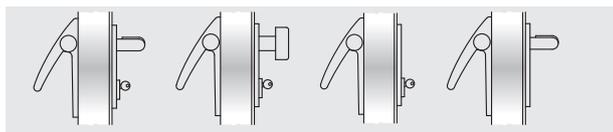


### Description

The TWIST plastic panic bar consists of an anodized aluminum horizontal bar that inserts into the lever arms attached to the command 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 40 x 20 mm and a length of 1150 mm
- Two black plastic lever arms with galvanized steel core
- The two command mechanisms are made of galvanized steel with black plastic backplates, one of which has an EXIT label that identifies the lock side
- The lock is anti-panic/fire resistance for Euro profile cylinders
- Door furnitures and the backplate are made of black plastic, while the installation plate is made of galvanized steel

## VERSIONS AVAILABLE

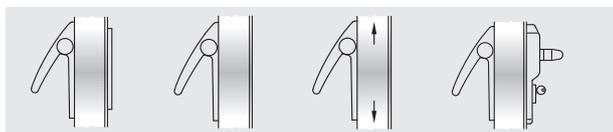


BM

BSP

BS

BMC



BC

B

A

ELM

## VARIATIONS ON REQUEST (see dedicated page)

- Aluminum bar painted in RAL colors
- External BM and BSP commands in satinized 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 leaves or the active leaf (main leaf) of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65 mm entrance and the backplate insert

*Included (in the package):* Nr. 2 command 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/mt and ELM/cisa.

ELM electric handle: see the dedicated pages

### For the secondary leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80 mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 command 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 65 mm entrance, Nr. 1 strike plate insert, Nr. 2 command 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 passive 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 command 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 passive leaf of two-leaved doors and suited for other types of multipurpose doors and for substitution of non CE marked panic bars (PROGET doors):

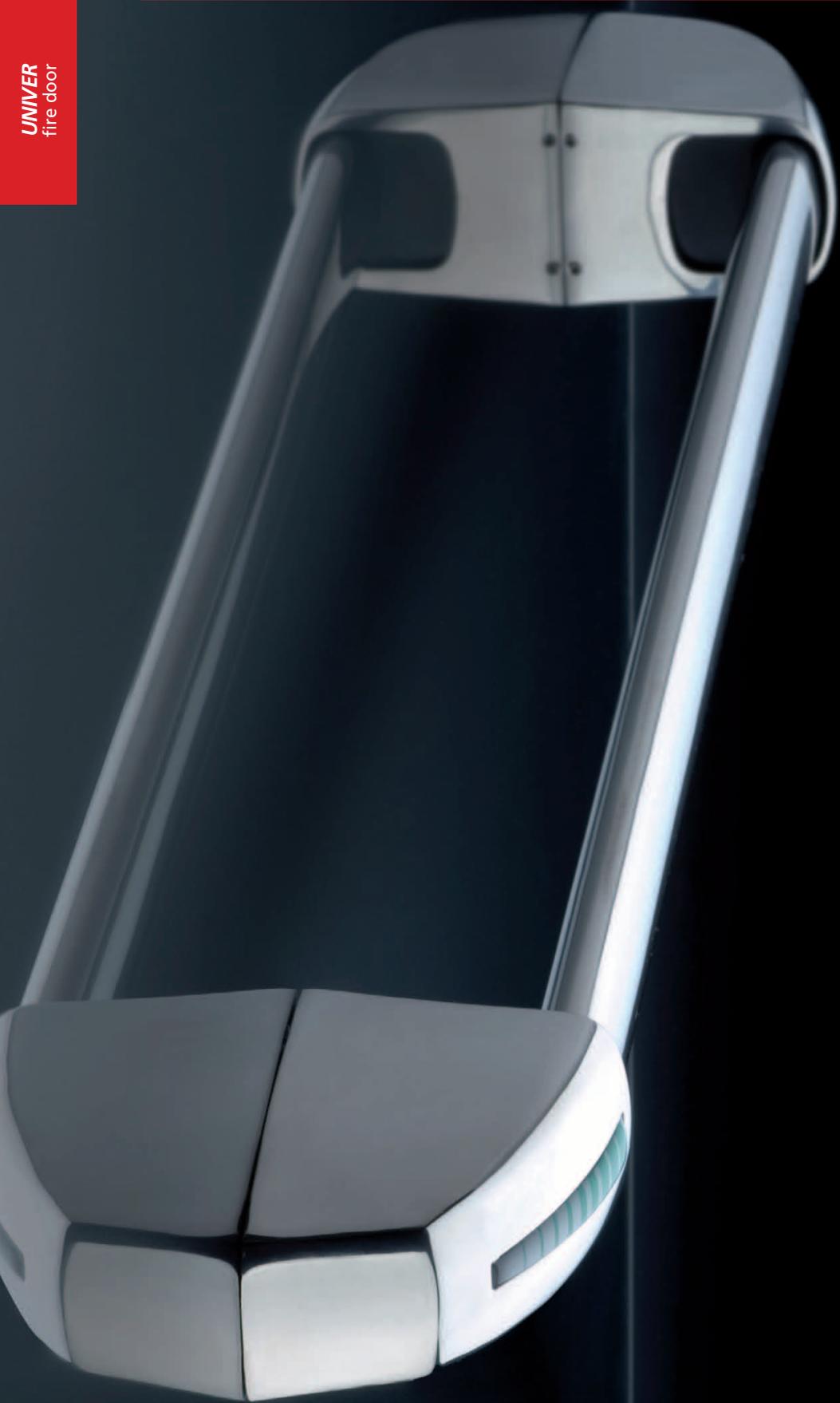
*KIT contents:* Nr. 1 anti-panic safety lock with 80 mm entrance, Nr. 2 command mechanisms, Nr. 2 black plastic carter covers, Nr. 2 black plastic lever arms, Nr. 1 anodized aluminum bar, Nr. 1 upper re-latch device, Nr. 1 upper strike plate, vertical rods, Nr. 1 floor-mounted floor catch, Nr. 1 carrier arm, Nr. 1 drilling template, Nr. 1 adhesive pictogram (green arrow), Nr. 1 set of installation/maintenance instructions

*Versions available:* A

**GLASH**

**NINZ**<sup>®</sup>  
FIREDOORS

**UNIVER**  
fire door



## 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 **satinized 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



ALUMINUM handle with STAINLESS STEEL lever handle and chromed ALUMINUM plate



Satinized STAINLESS STEEL handle

### NOTE

The external door furnitures for this series are provided with the same finishing as the panic bar.

# SLASH - Features, certifications

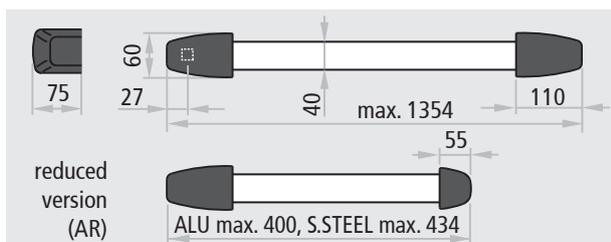
Panic bar



UNIVER  
fire door

## FEATURES

- Panic bar that stands out from the others due to its particular design and the rounded shapes of the carters. 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 satinized stainless steel for the cover carters and the bar, or with polished chromed aluminum carters and anodized aluminum bar, and then there is always the classic combination that is still in fashion - black plastic carters with anodized aluminum bar
- Certified for internal locks with a 65 mm entrance for single leaves or active leaves, and with an 80 mm entrance for passive leaves
- Reversible for Right or Left mounting
- Protrusion 75 mm
- 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 passive leaves of two-leaved doors with dimensions up to 1350 x 2880 mm/leaf, masses of 300 kg/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:



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). <i>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)</i>		
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
Dati prodotto	DISPOSITIVI ANTIPANICO PER USCITE DI SICUREZZA AZIONATI MEDIANTE UNA BARRA ORIZZONTALE PANIC EXIT DEVICES	Product Type
Denominazione	Dispositivo antipanico Modelli "SLASH", "SLASH AR", "SLASH ALU", "SLASH ALU AR", "SLASH INOX", "SLASH INOX AR"	Denominazione
Serrature antipanico	art. AP16/18, SCA 1 3201001.0/9020, MAC 1 3201001.041042, 3201001.016, 405/05-0	
Controserratura antipanico	art. AF020P, AF020U, 3201001.6, 43190-95	
Dispositivo superiore	art. 3105080, 3105024, 330003	
Riscontro alta	art. 2401005, 2401046, 2401044, 2401002	
Boccola pavimento	art. 2401001, 2401007, 3102091, 2401020, 4419008	
Deviatori	art. 4201010	
Aste verticali	art. 3305015, 3305016, 3305002, 3305013, 960837	
Riscontro serratura	art. 2401005, 2401005, 2401015, 2401014, 2401005, 2401005, 3412001	
Comandi esterni	art. EM, BSP, BS, BMC, BC, B, A, BM inox, BM alu, BSP inox, BSP alu	
Sistema di attestazione della conformità	1	Attestation of conformity
Norma di riferimento	EN1125:2008	Standard
Classificazione	<b>3   7   7   B   1   3   2   2   B   A</b>	Classification
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 <i>The present issue is valid only for the product described above. Possible changes to be brought in have to be approved by ICIM SpA</i>		
Data di emissione First issue	Emissione corrente Current issue	Data di scadenza Expiring date
31/05/2007	04/08/2010	30/05/2017
		ICIM S.p.A. Il Presidente Ing. Tullio Badino

## SLASH IN BLACK PLASTIC

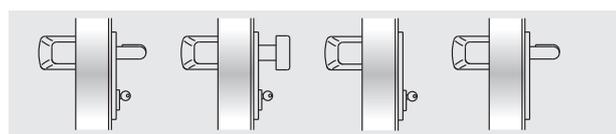


### Description

The SLASH panic bar consists of an anodized aluminum horizontal bar and an internal connection tube that inserts into the command 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 40 x 20 mm and a length of 1150 mm, equipped with a connection tube
- The two command 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 backplate are made of black plastic, while the internal installation plate is made of galvanized steel

## VERSIONS AVAILABLE

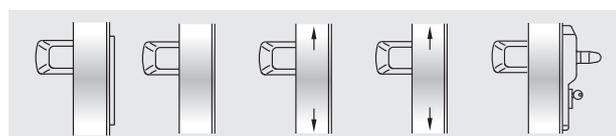


BM

BSP

BS

BMC



BC

B

A

AR

ELM

## VARIATIONS ON REQUEST (see dedicated page)

- Aluminum bar painted in RAL colors
- External BM and BSP commands in satinized 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 leaves or the active leaf (main leaf) of two-leaved doors:**  
*Included (mounted on the door):* the anti-panic lock with 65 mm entrance and the backplate insert

*Included (in the package):* Nr. 2 command mechanisms, Nr. 2 black plastic carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 backplate in RAL 9006 colored plastic with internal installation 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/mt and ELM/cisa.

ELM electric handle: see the dedicated pages

### For the secondary leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80 mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 command 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 secondary 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 65 mm entrance, Nr. 1 strike plate insert, Nr. 2 command mechanisms, Nr. 2 black plastic carter covers, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 backplate in RAL 9006 colored plastic with internal installation plate, Nr. 1 black plastic 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 passive 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 80 mm entrance, Nr. 2 command 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 passive leaves with FM L2 width ≤ 500mm

#### KIT for the passive 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 80 mm entrance, Nr. 2 command 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 passive leaves with FM L2 width ≤ 500mm

## SLASH IN ALUMINUM

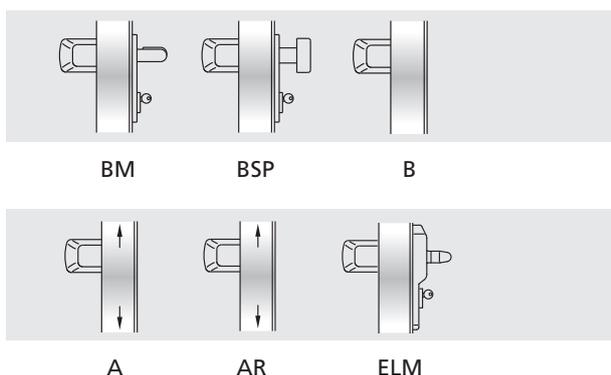


### Description

The SLASH ALU panic bar consists of an anodized aluminum horizontal bar and an internal connection tube that inserts into the command 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 40 x 20 mm and a length of 1150 mm, equipped with a connection tube
- The two command mechanisms are made of galvanized steel with aluminum alloy cover plates 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 furniture consist of the AISI 304 stainless steel handle or knob and aluminum alloy plate with polished chrome finish
- The carters and handle plate are finished with tri-valent chrome in compliance with the ROSH regulation

## 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 leaves or the active leaf (main leaf) of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65 mm entrance and the backplate insert

*Included (in the package):* Nr. 2 command mechanisms, Nr. 2 polished chrome aluminum cover plates, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 backplate in black plastic with internal installation plate (for REVER and UNIVER doors), Nr. 1 stainless steel/aluminum 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, B (for Proget doors only), ELM/mt and ELM/cisa. ELM electric handle: see the dedicated pages

### For the secondary leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80 mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 command mechanisms, Nr. 2 polished chrome aluminum cover plates, 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 secondary 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 65 mm entrance, Nr. 1 strike box insert, Nr. 2 command mechanisms, Nr. 2 polished chrome aluminum cover plates, Nr. 1 anodized aluminum bar with connection tube and spacer, Nr. 1 backplate in black plastic with internal installation plate, Nr. 1 stainless steel/aluminum 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

#### KIT for the passive 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 80 mm entrance, Nr. 2 command mechanisms, Nr. 2 polished chrome aluminum cover plates, 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 passive leaves with FM L2 width ≤ 500mm

#### KIT for the passive 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 80 mm entrance, Nr. 2 command mechanisms, Nr. 2 chromed aluminum cover plates, 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 passive leaves with FM L2 width ≤ 500mm

# SLASH STAINLESS STEEL

Panic bar for internal locks - CE EN 1125:2008

**NINZ**<sup>®</sup>  
FIRE DOORS

## SLASH IN STAINLESS STEEL

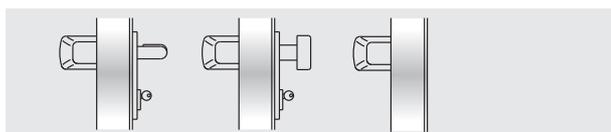


### Description

The SLASH STAINLESS STEEL panic bar consists of a stainless steel horizontal bar and an internal connection tube that inserts into the command mechanisms which activate the lock.

- Optimal corrosion and shock resistance
- State of the art aesthetics
- Secure attachment of carter
- 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 satinized stainless steel with a 40 x 20 mm elliptical cross-section and a length of 1150 mm, equipped with a connection tube
- The two command 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 furniture and related backplate are made of AISI 304 satinized stainless steel, while the internal installation plate is made of galvanized steel

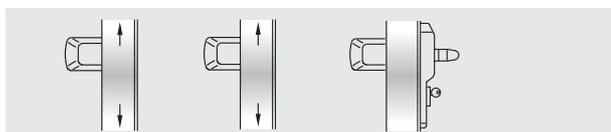
## VERSIONS AVAILABLE



BM

BSP

B



A

AR

ELM

## 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 leaves or the active leaf (main leaf) of two-leaved doors:

*Included (mounted on the door):* the anti-panic lock with 65 mm entrance and the backplate insert

*Included (in the package):* Nr. 2 command mechanisms, Nr. 2 stainless steel cover plates, Nr. 1 stainless steel bar with connection tube and spacer, Nr. 1 backplate in black-colored plastic with internal installation 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, B (for Proget doors only), ELM/mt and ELM/cisa.

ELM electric handle: see the dedicated pages

### For the secondary leaf of two-leaved doors:

*Included (mounted on the door):* anti-panic safety lock with 80 mm entrance, the upper re-latch device, the upper strike plate and the vertical rods

*Included (in the package):* Nr. 2 command mechanisms, Nr. 2 stainless steel cover plates, 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 secondary 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 reversible anti-panic lock with 65 mm entrance, Nr. 1 strike plate insert, Nr. 2 command mechanisms, Nr. 2 stainless steel cover plates, Nr. 1 stainless steel bar with connection tube and spacer, Nr. 1 backplate in black plastic with internal installation 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

#### KIT for the passive 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 80 mm entrance, Nr. 2 command 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 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 passive leaves with FM L2 width ≤ 500mm

#### KIT for the passive 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 80 mm entrance, Nr. 2 command 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 passive leaves with FM L2 width ≤ 500mm

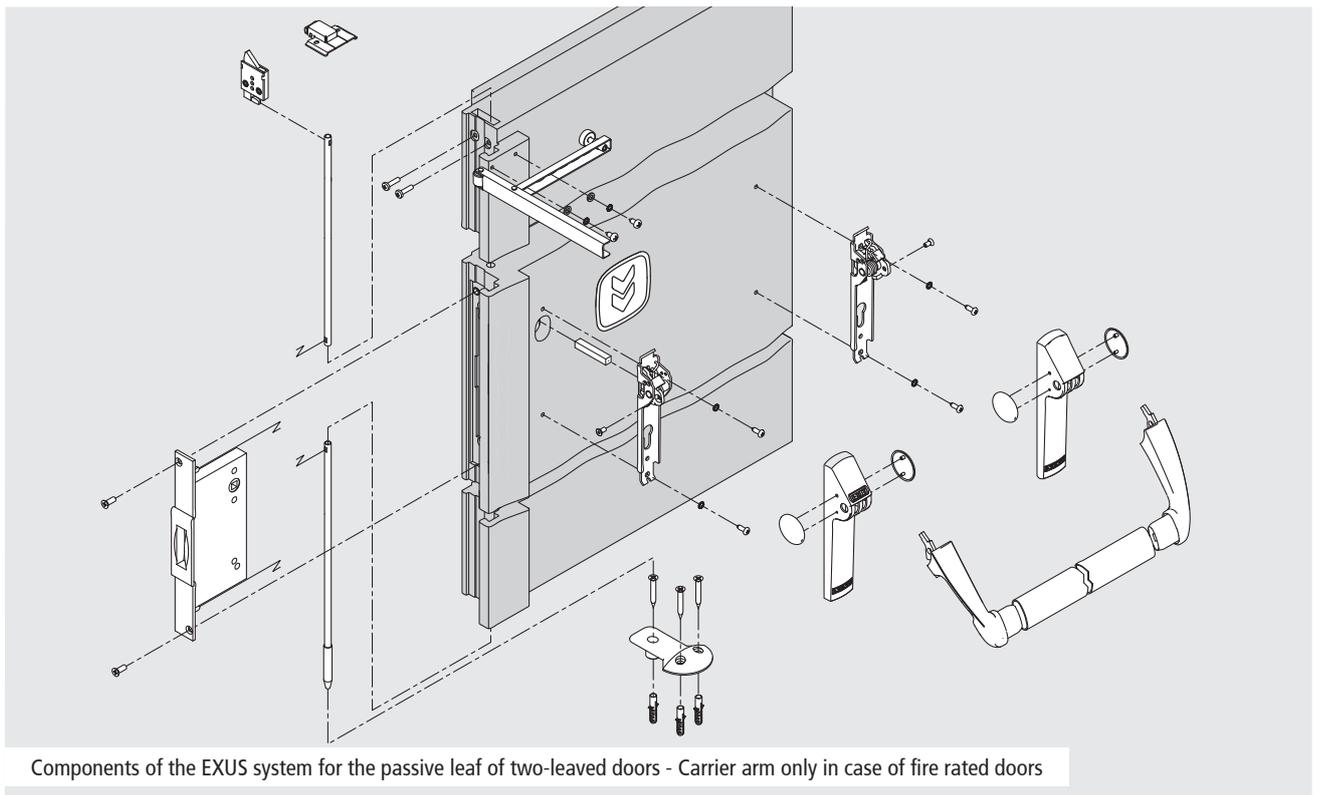
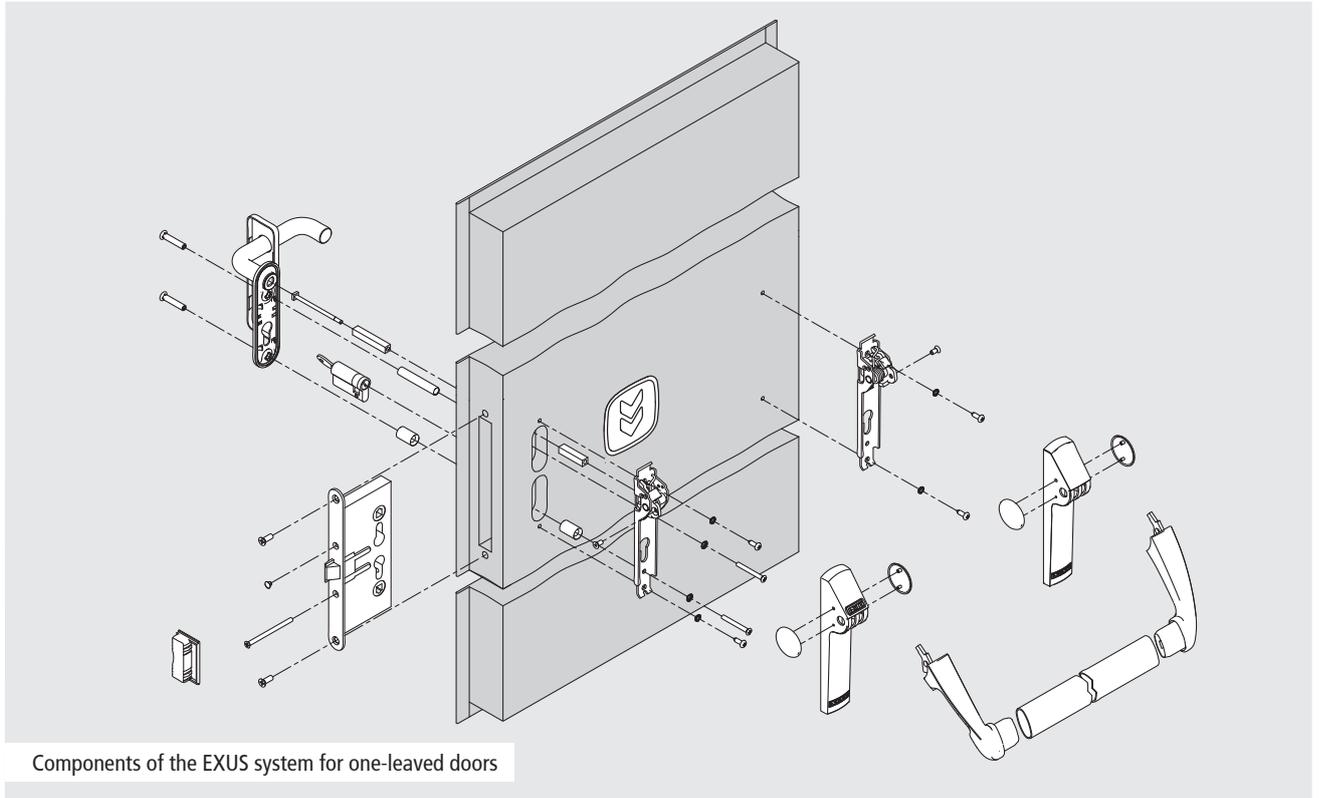
# General information

## 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.

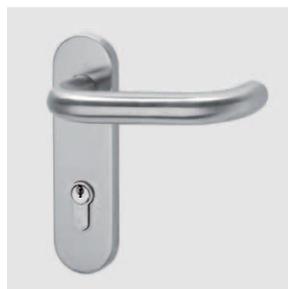


# Variations on request

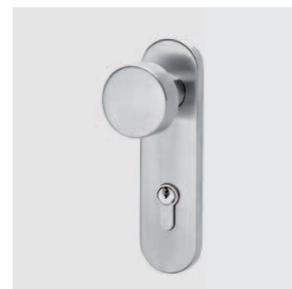
For panic bars

## STAINLESS STEEL EXTERNAL DOOR FURNITURE

For all black plastic exit devices (except for those designed for glazed doors), satinized stainless steel external BM and BSP 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.

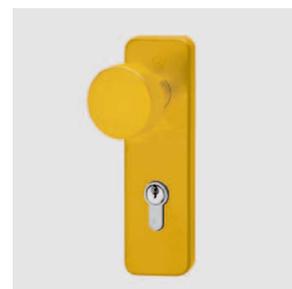
Colors available:

RAL	RAL	RAL	RAL	RAL
1023	7016	7035	9006*	9010

\*light aluminum



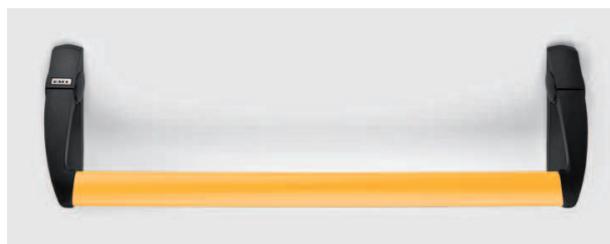
BM colored RAL1023



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” ACCESS CONTROL SYSTEM

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 MAC 1 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:

- 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)



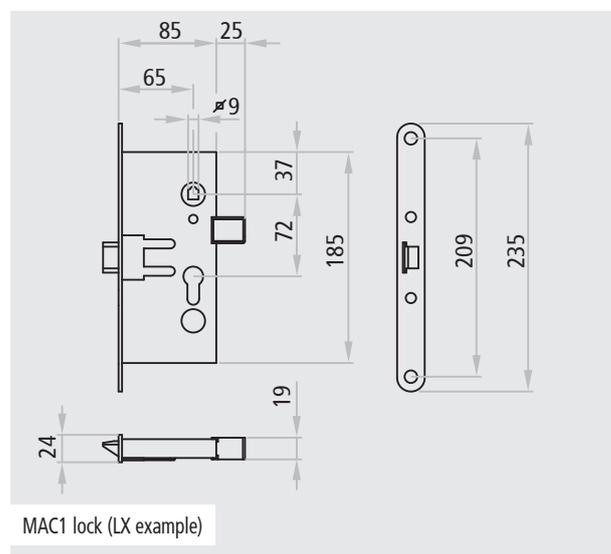
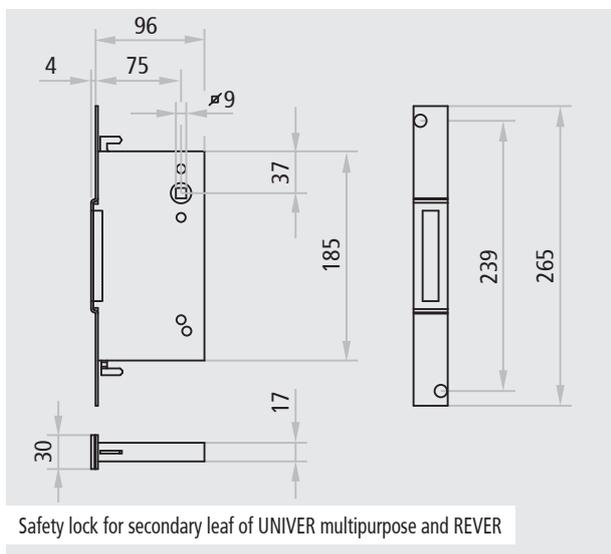
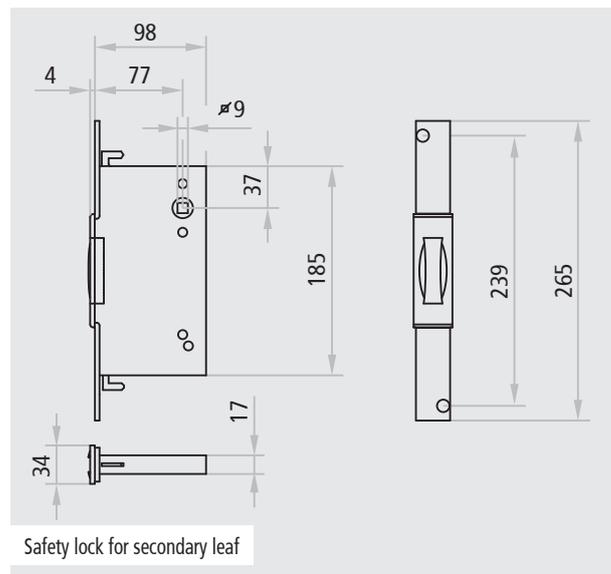
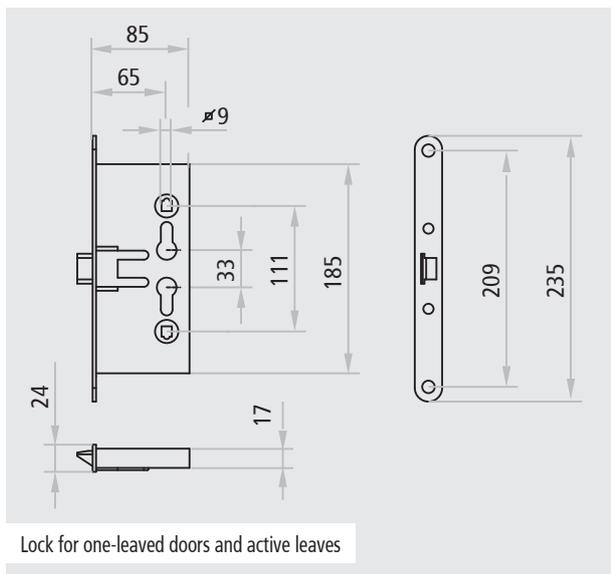
Handle for MAC1 lock with LEDs

For sizes, information and technical data consult the dedicated pages

# Dimensional drawings

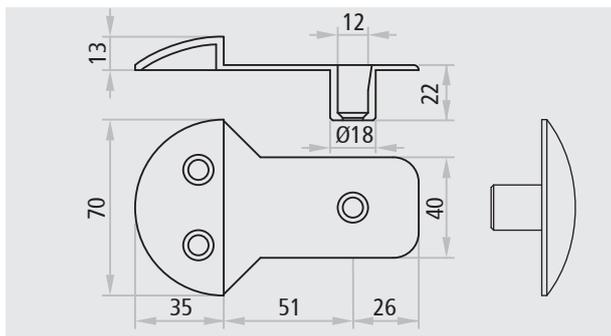
For panic exit device components

Article Nr.	Description
3201001.016	Lock for one-leaved doors and active leaves (AP 16/18)
3201001.024	Safety lock for secondary leaves (AP 020 P)
3201001.008	Safety lock for secondary 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 secondary leaf of PROGET and other multipurpose doors
3105019.001	Lower floor catch for secondary leaf of UNIVER
3105020.001	Lower floor catch for secondary leaf of REVER
2401006.001	Strike plate insert for one-leaved PROGET and other multipurpose doors
3105080.001	Upper re-latch device for secondary leaf of PROGET and other multipurpose doors
3105024.001	Upper re-latch device for secondary leaf of UNIVER and REVER
2401046.001	Upper strike box for passive leaf of PROGET and other multipurpose doors
3305001.001	Carrier arm for passive leaf

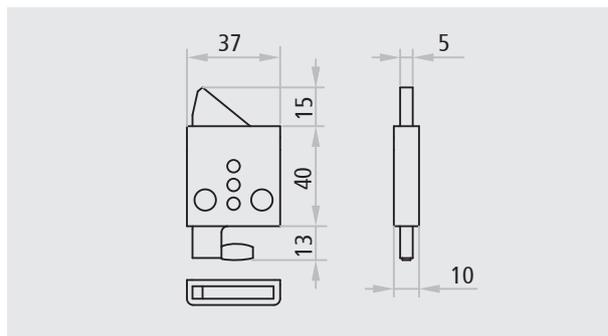


# Dimensional drawings

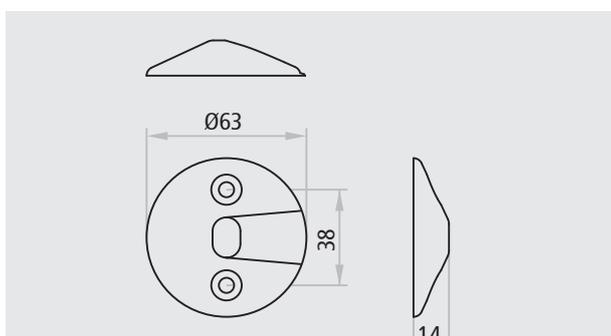
For panic exit device components



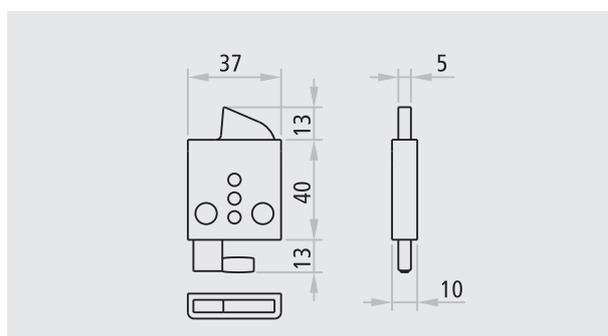
Lower floor catch for passive leaf of PROGET and other multipurpose doors



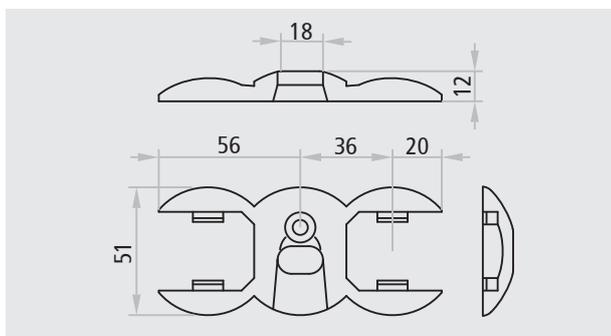
Upper re-latch device for secondary leaf of PROGET and other multipurpose doors



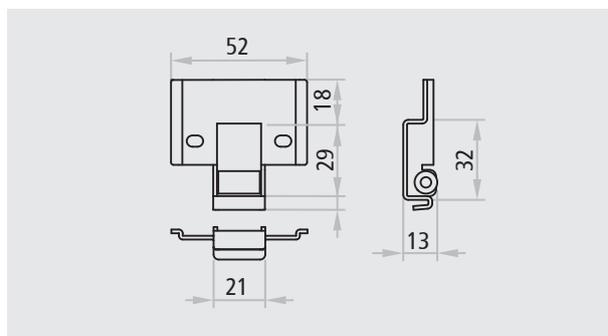
Lower floor catch for passive leaf of UNIVER



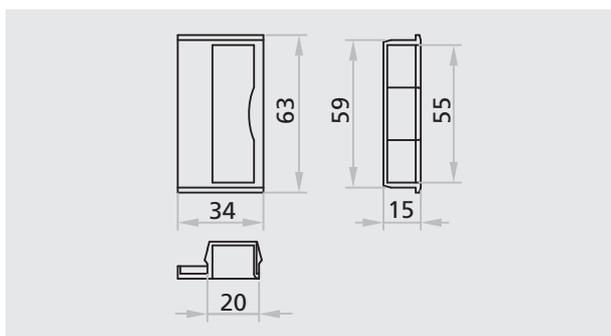
Upper re-latch device for secondary leaf of UNIVER and REVER



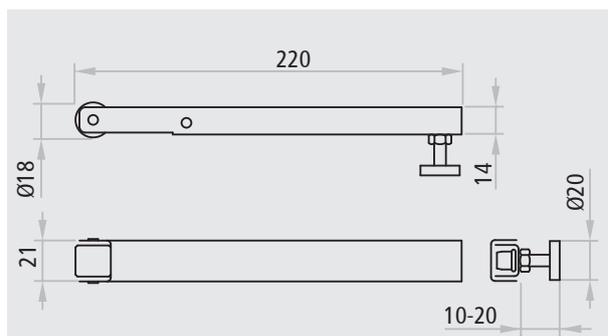
Lower floor catch for passive leaf of REVER



Upper strike box for secondary leaf of PROGET and other multipurpose doors



Strike plate insert for one-leaved doors of PROGET and other multipurpose doors



Carrier arm for secondary leaf

# Notices

## For panic exit device components



### NOTICES

For panic exit devices, the human safety features are of fundamental importance in terms of their conformity with EN 1125:2008, which permits no modifications of any kind except for those described in the manufacturer's installation instructions.

All of NINZ's installation instructions for panic exit devices include a list of elements that have been tested and approved for use with panic exit devices and that can be packaged separately.

No modifications to the certified system are permitted, and every component must remain unchanged.

No uncertified components are applicable, and therefore the package contains certified components only.

Panic exit device components that are produced in conformity with European standards will provide a high level of human safety and an appropriate level of safety for material goods, as long as the doors and frames they are mounted on are in good condition.

All components supplied and mentioned must be positioned and installed according to the installation instructions by qualified personnel.

After installation is complete, a dynamometer is used to measure the force required to release the lock by pressing on the horizontal bar and the measured forces are recorded in the maintenance register.

The instructions must be kept on file by the owner of the activity.



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