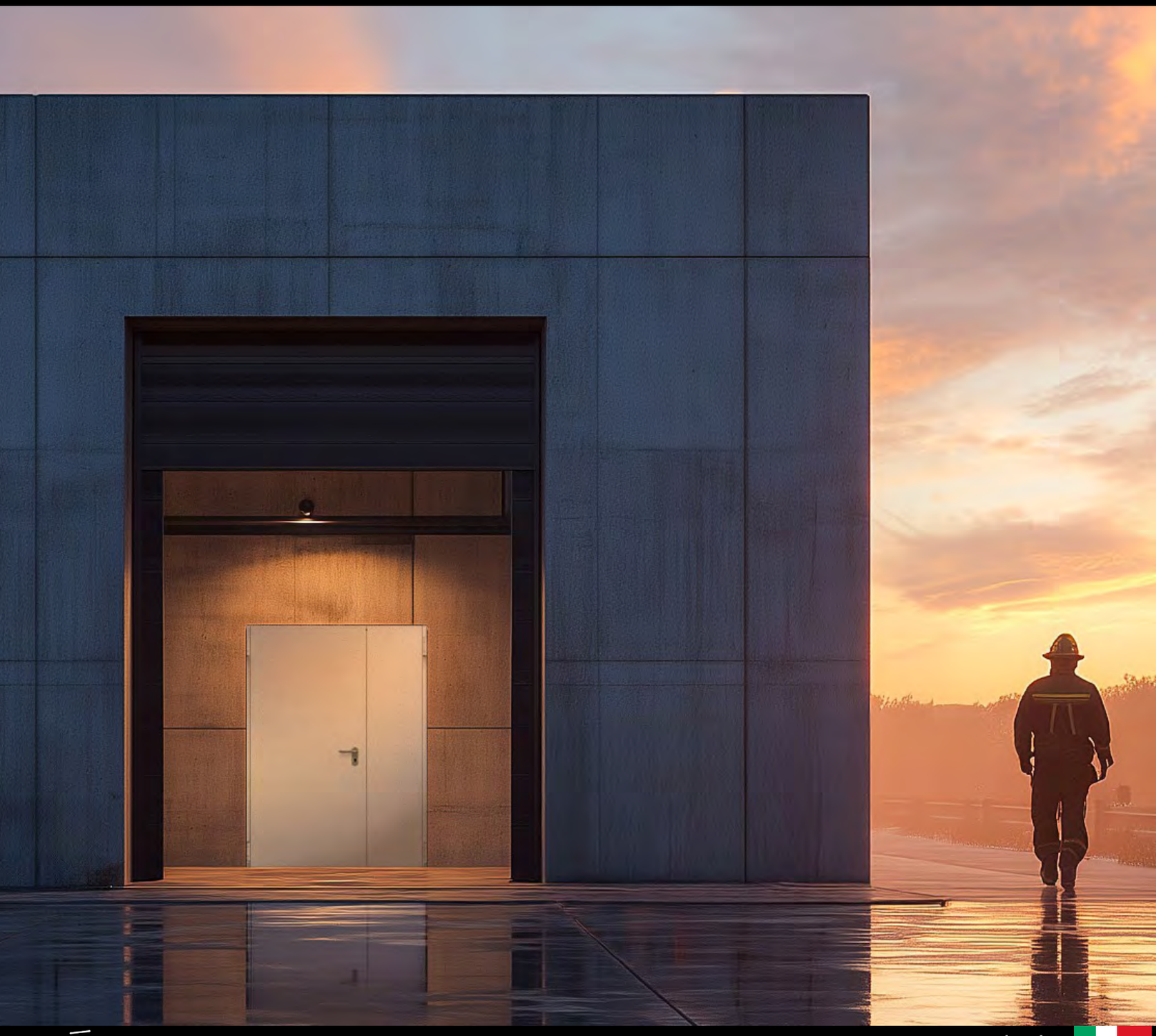
NINZ
FIREDOORS

General brochure




“the quality multipurpose,
reversible and heat-insulated“

UNIVER NINZ Doors

MULTIPURPOSE VERSION

FEATURES	74 - 77
SPECIFIC OPTIONAL ACCESSORIES	78 - 80
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Features
UNIVER multipurpose doors

NINZ FIREDOORS

THE HIGH QUALITY MULTIPURPOSE

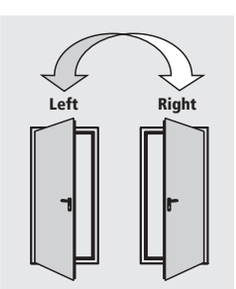
"Quality first"
- Solid design and manufacture
- Fully galvanized door, including the "hidden" parts
- Made of "Sendzimir" process hot-galvanized sheet metal
- Corrosion protection also provided along cut edges of the metal sheets
- Painted with epoxy-polyester thermoset powders in a 180 degrees (Celsius)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

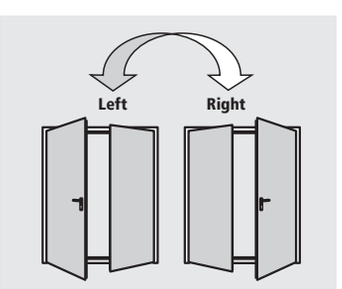
CE marking for external use
- Wind resistance and water tightness
- Thermal isolation
- Air permeability
- Suitable for use with panic bar

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

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

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







One-leaved doors



Two-leaved doors

Features
UNIVER multipurpose doors

STANDARD ELEMENTS

Door leaf
- Made of "Sendzimir" processed hot-galvanized sheet metal, press folded and electro welded
- Perimetral rebate on 4 sides
- Heat-insulated with mineral wool
- Internal stiffeners for overhead door closer and panic bar
- Thickness of 60mm

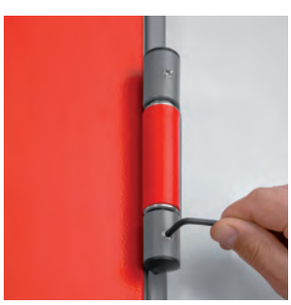
Doorframe
- Made of "Sendzimir" processed hot-galvanized sheet metal
- Grooves for rebate sealing
- Suitable for anchors for mortar fixing or expansion screws
- Detachable rebate for application on finished flooring
- Removable threshold for thresholdless installation (except for external doors CE marked)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

















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

Safety bolts
- Nr. 2 safety bolts on hinge side leaf edge

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

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

Features
UNIVER multipurpose doors

INCLUDED ACCESSORIES

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

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

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

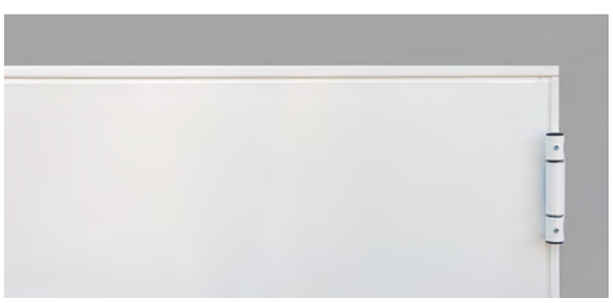
Identification plate
- Metal tag with door identification data







Standard paint - group 01: RAL 9010





Finishing
- Standard paint with epoxy-polyester thermoset powders in a 180 degrees oven, orange skin, anti-scratch finishing
- Standard paint RAL 9010

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

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

OPTIONAL ACCESSORIES

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

The proper accessories can help resolve:

Safety-related needs
- Doors for panic exits (see panic bars)
- Doors for emergency exits (see emergency exit handles)

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

Access-related control issues
- Electrically-activated lock mechanisms MAC
- Electric handle mechanisms
- Magnetic blocking mechanisms

Performance enhancing
- Sealing
- Cylinders
- Door closers
- Special handles





NOTE
Details about optional accessories may be found in the present brochure in chapters:
- Painting and NDD decorations
- Accessories for metal doors
- Emergency handles and panic bars







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

Packaging for maximum protection
Sturdy wooden crates protect all doors and related accessories
- For NDD decorated doors
- On construction sites
- During shipping abroad
- For special transport

The following optional accessoires make Univer doors irreversible, requiring the indication of the door opening direction when the order is placed:
- SLASH panic bar
- Panic bar for inactive leaves
- Window and ventilation grills
- MAC locks
- ELM/cisa and ELM/mt electric handle
- Special locks (Stel 15)
- NDD - Ninz Digital Decor

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

Specific optional accessories

UNIVER multipurpose doors

NINZ FIREDOORS

MULTIPURPOSE WINDOW WITH METAL WINDOW FRAME

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

Production limits

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

Borders, window position

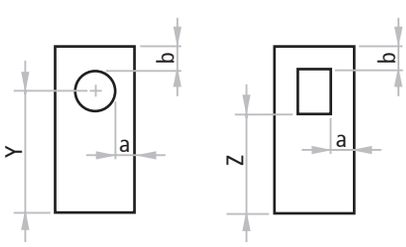
„Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

Elevation for round windows

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

Elevation of rectangular windows

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



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



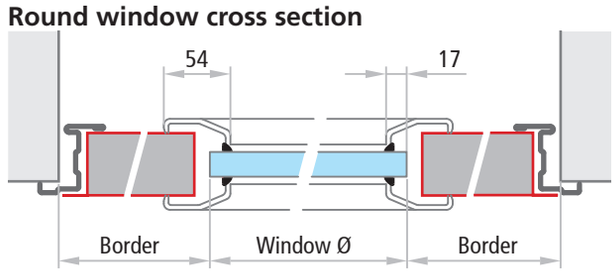


NOTE

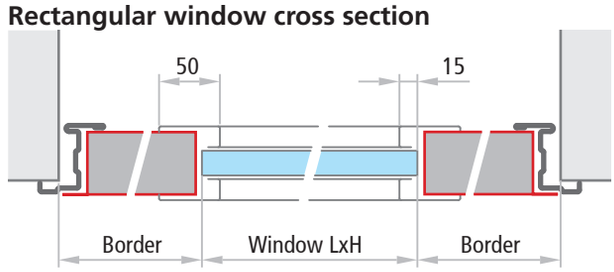
For the rectangular windows the frame carters are an optional accessory

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

Round window cross section



Rectangular window cross section



NOTE

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

MULTIPURPOSE WINDOW WITH RUBBER WINDOW FRAME

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

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

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

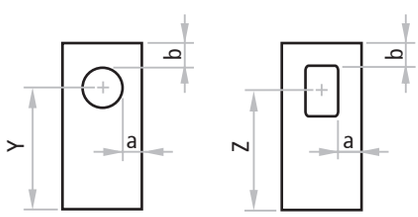
Borders, window position
"Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

Elevation of round windows

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

Elevation of rectangular windows

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

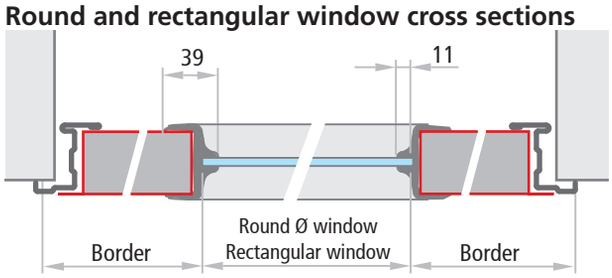


NOTE
The positions indicated above are those standard.
Different positions may be considered as long as they respect the minimum "a" and "b" borders. It is always advisable for doors with windows to be equipped with door closers for controlled closing.

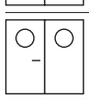
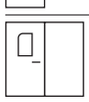
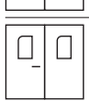




Round and rectangular window cross sections



Window dimensions

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

Specific optional accessories

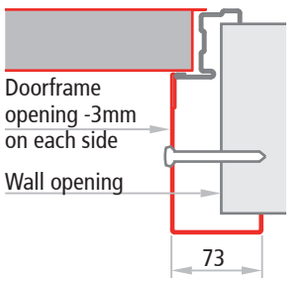
UNIVER multipurpose doors

FRAME EXTENSIONS FOR UNIVER DOORS

IM 12
Frame extension to be mounted in addition to the Univer frame acting as wall cladding. Made of „Sendzimir" processed hot-galvanized sheet metal and painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint, fixing with screws and plugs (screws and plugs not included).

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

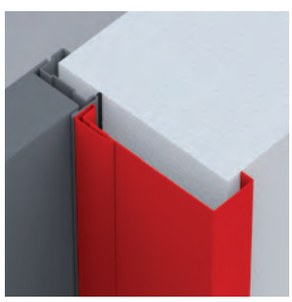


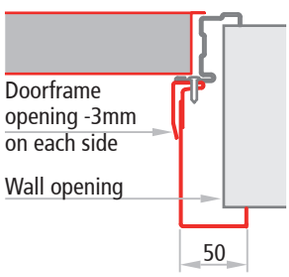


Frame extension IM 12

IM 14
Telescopic frame extension to be screwed to the Univer doorframe acting as wall cladding. Consists of two overlapping profiles with a 25mm adjustable range. Made of „Sendzimir" processed hot-galvanized sheet metal painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint.
Complete with fastener screws. To mount the frame extension, fixing holes need to be drilled into doorframe on site. Combine with sealing to conceal the screw heads.

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

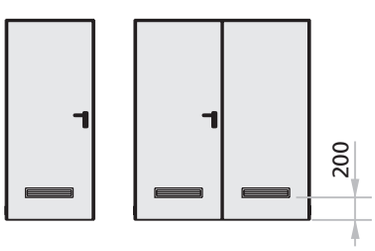




Frame extension IM 14

VENTILATION LOUVER

Ventilation louver made of either black or white PVC, 482x99mm (air passage approx. 150cm²). The opening direction of the door needs to be specified.



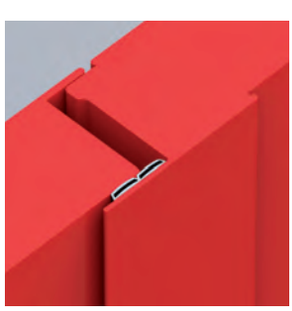
Minimum FML = 650mm



REBATE SEALING CR

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





Additional performances

UNIVER multipurpose doors

INTERNAL PEDESTRIAN DOORS

Pedestrian interior doors are not yet subject to CE marking as the relevant standard EN 14351-2 has not yet been harmonized. The performances listed in the standard can however be used as a reference for classifying the door for indoor uses, such as:

- air permeability according to EN 1026:2001
- thermal transmittance according to EN ISO 10077-1:2018 e EN ISO 10077-2:2018

ATTENTION

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

The values for the thermal transmittance W/m²K 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 ≤ 3,6m² and on samples of the dimensions 2,00x2,18 for areas > 3,6m².

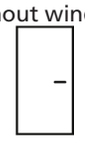
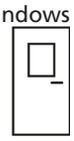
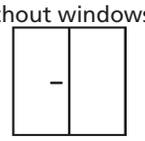
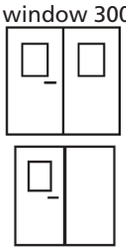
All performance values indicated in the table are valid only in presence of the following accessories or enhancements:

• Combo Thermo/CB (with lower threshold)

- frame on all 4 sides
- if the door is installed on an escape route, it is necessary to fill the difference in height on the push side between the floor and the lower threshold with cement mortar or polyurethanic foam
- isolation of the door frame with the filling of cement mortar or polyurethane foam
- installation of rubber seals along the entire perimeter of the door frame including the central rebate for double leaved doors
- sealing of the perimeter of the frame (push side) with neutral silicone

• Combo Thermo/SB (without lower threshold)

- isolation of the door frame with the filling of cement mortar or polyurethanic foam
- installation of rubber seals along the 3 sides of the frame including the central rebate for two-leaved doors

UNIVER multipurpose doors **Test report CPR/35/07/2019**		DIMENSION FM L X H	**Combo Thermo/CB with lower threshold and gasket on all 4 sides**	**Combo thermo/SB without lower threshold and gasket on 3 sides**
Without windows 	**UNI EN 1026:2001**	**≤ 3,6 m2**		
	Air permeability		Classe 2	N.P.D.
	UNI EN 10077-1-2:2018			
	Thermal transmittance		1,60 W/m²K	1,60 W/m²K
With windows 300x400 	**UNI EN 1026:2001**	**≤ 3,6 m2**		
	Air permeability		Classe2	N.P.D.
	UNI EN 10077-1-2:2018			
	Thermal transmittance		1,90 W/m²K	1,90 W/m²K
Without windows 	**UNI EN 1026:2001**	**≤ 3,6 m2**		
	Air permeability		Classe3	N.P.D.
	UNI EN 10077-1-2:2018			
	Thermal transmittance		2,00 W/m²K	2,00 W/m²K
	UNI EN 1026:2001	**> 3,6 m2**		
	Air permeability		Classe 3	N.P.D.
	UNI EN 10077-1-2:2018			
	Thermal transmittance		1,60 W/m²K	1,60 W/m²K
With window 300x400 	**UNI EN 1026:2001**	**≤ 3,6 m2**		
	Air permeability		Classe 3	N.P.D.
	UNI EN 10077-1-2:2018			
	Thermal transmittance		2,40 W/m²K	2,40 W/m²K
	UNI EN 1026:2001	**> 3,6 m2**		
	Air permeability		Classe 3	N.P.D.
	UNI EN 10077-1-2:2018			
	Thermal transmittance		2,10 W/m²K	2,10 W/m²K

Additional performances

UNIVER multipurpose doors

INTERNAL PEDESTRIAN DOORS

Test report IFT N° 16-000122-PR03

SMOKE CONTROL

This is the ability of a door set to reduce or eliminate the passage of smoke from one side of the door to the other. Two levels of smoke performance are defined.

Smoke control Sa: when the maximum dispersion value measured at room temperature and at a pressure of 25 Pascal is not greater than 3 m^3/h per metre through the gap between the door leaf and the door frame excluding eventual losses through the floor threshold.

Smoke control S200: when the maximum dispersion value, measured at room temperature and 200 C and up to a pressure of 50 Pascal, is not greater than 20 m^3/h for a single door or 30 m^3/h for a two-door door.

The smoke tightness is verified with a specific technical test in accordance with UNI EN 1634-3, while the classification is provided by UNI EN 13501-2 according to the following criteria:
Sa considers only the seal at room temperature
S200 considers the seal at room temperature and at 200 C

The price list lists the Combos which add these additional performances to the door.

ATTENTION
The smoke control performance is only valid in presence of the following accessories or enhancements:

- no fixed threshold
- filling of the slot between frame and wall with cement mortar
- installation of rubber seals along the entire perimeter of the door frame including the central rebate for double leaved doors
- presence of the automatic door sweep
- closing regulator RC/STD for the correct closure of double leaved doors








Nachweis
Rauchdichtheit und selbstschließende Eigenschaft von Bauteilen

Klassifizierungsbericht
Nr.: 21-000932-PR02
(KB-C05-01-de-01)

ift ROSENHEIM

Auftraggeber	NINZ s.p.a. Corso Trento 2/A 38061 ALA (Italien)
Erstellt durch die notifizierte Stelle	ift Rosenheim GmbH Theodor-Gietl-Straße 7-9 83026 Rosenheim (Deutschland)
Nummer der notifizierten Stelle	0757
Bezeichnung	"UNIVER Multi EI_2 30 / EI_2 60 / EW 60 / REI 60 / EI_2 90 / REI 120" (nach den Angaben des Auftraggebers)
Klassifizierung	Klassifizierung zum Rauchdichtheit und selbstschließende Eigenschaft nach EN 13501-2:2007+A1:2009 / EN 13501-2:2016
Ausgabenummer	1

Rauchschutzabschluss

Klassifizierung
S_a / S_{200} C5

ift Rosenheim
13.01.2022

Dr. Gerhard Wackerbauer, Dipl. Phys.
Leitung Technische Bewertung
Zertifizierungs- & Überwachungsstelle

Christine Schmaus, Dipl.-Ing. (FH)
Projektingenieur
Zertifizierungs- & Überwachungsstelle

Grundlagen
EN 13501-2:2007+A1:2009
EN 13501-2:2016
EN 1634-3:2004/AC:2006
EN 1191:2012
EN 16034:2014

Verwendungshinweise
Dieser Klassifizierungsbericht definiert die Klassifizierung, die dem Bauteil gemäß Produktname in Übereinstimmung mit dem Verfahren nach EN 13501-2 zugeordnet wird. Dieses Dokument stellt keine Typengenehmigung oder Zertifizierung dar.

Gültigkeit
Der Nachweis ermöglicht keine Aussage über weitere leistungs- und qualitätsbestimmenden Eigenschaften des Produkts

Veröffentlichungshinweise
Es gilt das ift-Merkblatt „Bedingungen und Hinweise zur Benutzung von ift-Prüfdokumentationen".

Inhalt
Dieser Klassifizierungsbericht besteht aus 13 Seiten und darf nicht auszugsweise benutzt oder auszugsweise reproduziert werden.
1 Einleitung
2 Details zum klassifizierten Produkt
3 Prüfberichte/Berichte zum erweiterten Anwendungsbereich und Prüfergebnisse zum Nachweis der Klassifizierung
4 Klassifizierung und Anwendungsbereich
5 Einschränkungen

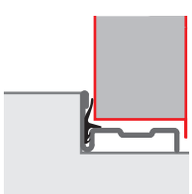
Additional performances
UNIVER multipurpose doors

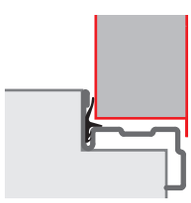
EXTERNAL PEDESTRIAN DOORS

Certificato CE 1404 - CPR -3736
EN 16034:2014 e EN 14351-1:2006+A2:2016

According to standards EN 16034 and EN 14351-1, an external door is defined as a door that separates the internal climate from the external environment of a building. For this application, doors must be CE marked in accordance with EN 16034:2014 and EN 14351-1:2006+A2:2016. Furthermore, if the door is installed along an escape route and equipped with a panic or emergency exit device, it is also subject to the assessment and verification of constancy of performance under "System 1". This requires the manufacturer to hold a Certificate of Constancy of Performance issued by a Notified Body — for NINZ S.p.A., this is certificate 1404 - CPR - 3736.

Univer for external use must be ordered with the specific CE Combo Est options available in the Univer multipurpose price list, selected based on the essential requirements indicated in the tables on the following pages, and considering those that are mandatory according to the applicable national regulations. This ensures that each door is provided with the required CE marking and the documentation specified by the current legislation.


Essential requirements*	EN 16034	EN 14351
Fire reistance	YES	NO
Smoke control	YES	NO
Self - closing	YES	NO
Durability of performance	YES	NO
Thermal insulation	NO	YES
Air permeability	NO	YES
Water tightness	NO	NO
Acoustic performance	NO	NO
Wind resistance	NO	NO
Load-bearing capacity of safety devices	NO	YES
Release/unlocking capability (mandatory for doors installed on escape routes)	NO	YES
Minimum clear passage height: 2000 mm	NO	YES

* Required under binding national provisions

ATTENTION

For dimensional limits, minimum edge requirements and production options, please refer to the specific pages of this catalogue. The thermal transmittance values (W/m²K) shown in the tables on the following pages are calculated in accordance with EN ISO 10077-1, applied to samples measuring 1.23 x 2.18 m for areas ≤ 3.6 m² and to samples measuring 2.00 x 2.18 m for areas > 3.6 m². All performance values listed in the table are valid only if the door is installed with the following accessories and measures:

- presence of a bottom rebate threshold
- in case of installation along an escape route, the floor on the push side must be raised to fully level the gap between the floor and the bottom threshold
- frame insulation by filling with polyurethane foam or cement-based mortar
- application of sealing gaskets along the entire perimeter of the frame and on the central mullion in double-leaf doors
- sealing of the frame's perimeter edge (on the push side) with neutral silicone
- for doors with vision panels: installation of external fire-resistant glazing sized 300x400 mm

NOTES

For information regarding outdoor installation, please refer to the "Warnings" section on the last page of this catalogue.



SLOVENSKA AKREDITACIJA
SIST EN ISO/IEC 17065
CP-002

ZAG
ZAVOD ZA GRADBENIŠTVO SLOVENIJE
SLOVENIAN NATIONAL BUILDING AND CIVIL ENGINEERING INSTITUTE
Dimičeva ulica 12
1000 Ljubljana
Slovenija
info@zag.si
www.zag.si
Notified certification body
NB 1404

Certificate of constancy of performance

1404 – CPR – 3736

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product

Single and double leaf door UNIVER MULTI
(doors that fall within the scope of standard EN 14351-1:2006+A2:2016)

placed on the market under the name or trade mark of
NINZ S.p.A.,
Corso Trento 2, 38061 Ala (TN), Italy

and produced in the manufacturing plant
NINZ S.p.A.,
Corso Trento 2, 38061 Ala (TN), Italy.

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 16034:2014 and **EN 14351-1:2006+A2:2016**

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on **4. 6. 2024** and will remain valid until **4. 6. 2029** as long as neither the harmonised standards, the construction products, the AVCP method nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Detailed information about the scope of the product is given in the annex to this certificate.

Ljubljana, 4. 6. 2024

Authorised signatory of the Certification body:
mag. Egon Milost, univ.dipl.inž.grad.

ZAG-001.306-2/v1 This certificate has a total of 2 pages Certificate No. 1404 – CPR – 3736, issue 1

Additional performances

UNIVER multipurpose doors

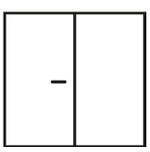
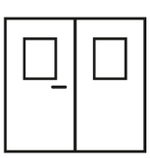
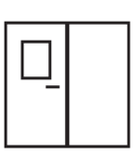
NINZ FIREDOORS

UNIVER multipurpose Certificate CE: 1404 - CPR -3736		Angular frame	Combo with bottom rebate, CR compression seal on all 4 sides and door closer for C5 version		Combo with CR compression seal on 3 sides, drop-down seal and door closer for C5 version	
			CE	CE C5	CE S200/GS CE S 200/GSV	CE S200/GS C5 CE S200/GSV C5
Without window	**EN 16034:2014**					
	Fire resistance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Smoke control	✓	N.P.D.	N.P.D.	Sa / S200	Sa / S200
	Ability to release / lock	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Self-closing	✓	C	C	C	C
	Durability of release mechanism	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Durability of self-closing					
	- against degradation	✓	0	5	0	5
	- against corrosion	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	EN 14351-1:2006+A2:2016					
	Air permeability	✓	2	2	2	2
	Water tightness	✓	2A	2A	N.P.D.	N.P.D.
	Wind load resistance					
	- door with FM ≤ 900x2150	✓	C2	C2	N.P.D.	N.P.D.
	- door with FM > 900x2150	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Impact resistance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Load-bearing capacity of safety devices	✓	Exceeds	Exceeds	Exceeds	Exceeds
	Acoustic performance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Thermal transmittance	✓	1,60 W/m²K	1,60 W/m²K	N.P.D.	N.P.D.
	Ability to release / open	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
With window 300x400	**EN 16034:2014**					
	Fire resistance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Smoke control	✓	N.P.D.	N.P.D.	Sa / S200	Sa / S200
	Ability to release / lock	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Self-closing	✓				
	Durability of release mechanism	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Durability of self-closing					
	- against degradation	✓	0	5	0	5
	- against corrosion	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	EN 14351-1:2006+A2:2016					
	Air permeability	✓	2	2	2	2
	Water tightness	✓	2A	2A	N.P.D.	N.P.D.
	Wind load resistance					
	- door with FM ≤ 900x2150	✓	C2	C2	N.P.D.	N.P.D.
	- door with FM > 900x2150	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Impact resistance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Load-bearing capacity of safety devices	✓	Exceeds	Exceeds	Exceeds	Exceeds
	Acoustic performance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Thermal transmittance	✓	1,90 W/m²K	1,90 W/m²K	N.P.D.	N.P.D.
	Ability to release / open	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.

Additional performances

UNIVER multipurpose doors

NINZ FIREDOORS

UNIVER multipurpose Certificate CE: 1404 - CPR -3736		Angular frame	Combo with bottom rebate, CR compression seal on all 4 sides and door closer for C5 version		Combo with CR compression seal on 3 sides, drop-down seal and door closer for C5 version	
			CE	CE C5	CE S200/GS CE S 200/GSV	CE S200/GS C5 CE S200/GSV C5
Without window	**EN 16034:2014**					
	Fire resistance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Smoke control	✓	N.P.D.	N.P.D.	Sa / S200	Sa / S200
	Ability to release / lock	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Self-closing	✓	C	C	C	C
	Durability of release mechanism	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Durability of self-closing					
	- against degradation	✓	0	5	0	5
	- against corrosion	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	EN 14351-1:2006+A2:2016					
	Air permeability	✓	3	3	3	3
	Water tightness	✓	3A - 9B	3A - 9B	N.P.D.	N.P.D.
	Wind load resistance					
	- doow with FM ≤ 2000x2150	✓	C2	C2	N.P.D.	N.P.D.
	- door with FM > 2000x2150	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Impact resistance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Load-bearing capacity of safety devices	✓	Exceeds	Exceeds	Exceeds	Exceeds
	Acoustic performance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Thermal transmittance FM ≤ 3,6 m²	✓	2,00 W/m²K	2,00 W/m²K	N.P.D.	N.P.D.
	Thermal transmittance FM > 3,6 m²	✓	1,60 W/m²K	1,60 W/m²K	N.P.D.	N.P.D.
	Ability to release / open	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
With window 300x400	**EN 16034:2014**					
	Fire resistance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Smoke control	✓	N.P.D.	N.P.D.	Sa / S200	Sa / S200
	Ability to release / lock	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Self-closing	✓	C	C	C	C
	Durability of release mechanism	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Durability of self-closing					
	- against degradation	✓	0	5	0	5
	- against corrosion	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	EN 14351-1:2006+A2:2016					
	Air permeability	✓	3	3	3	3
	Water tightness	✓	3A - 9B	3A - 9B	N.P.D.	N.P.D.
	Wind load resistance					
	- doow with FM ≤ 2000x2150	✓	C2	C2	N.P.D.	N.P.D.
	- door with FM > 2000x2150	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Impact resistance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Load-bearing capacity of safety devices	✓	Exceeds	Exceeds	Exceeds	Exceeds
	Acoustic performance	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Thermal transmittance FM ≤ 3,6 m²	✓	2,40 W/m²K	2,40 W/m²K	N.P.D.	N.P.D.
	Thermal transmittance FM > 3,6 m²	✓	2,10 W/m²K	2,10 W/m²K	N.P.D.	N.P.D.
	Ability to release / open	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.

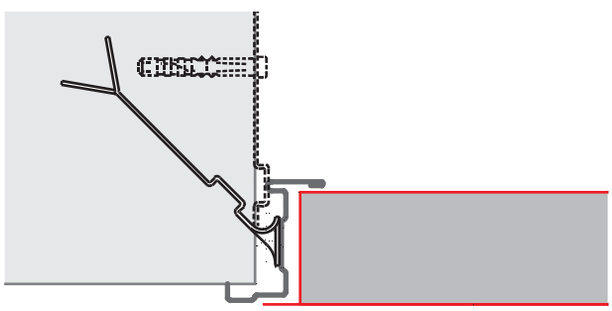
Installation methods

UNIVER multipurpose doors

INSTALLATION WITH ANCHORS FOR MORTAR FIXING

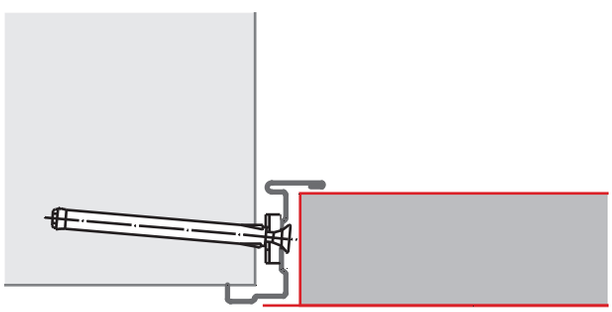


For mortar fixing, appropriate cuts will need to be created in the walls (section 80 x 200 mm) or the anchors should be fixed with expansion screws. The anchors should be bent and blocked inside the wall. For a perfect mechanical fit, the space between the doorframe and the masonry shall always be filled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



INSTALLATION FOR EXPANSION SCREWS FIXING

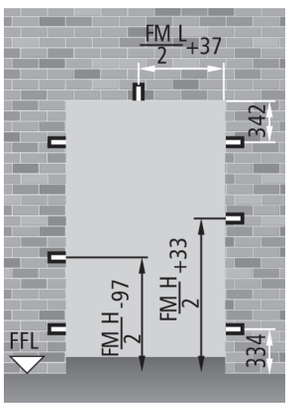
For the installation with expansion screws, the anchors serve as spacers and should not be bent. Using Würth type art. 0910436112 plugs or similar (supplied at the customer's expense), installation is done with expansion screws into the pre-drilled holes present on the frame. For a perfect mechanical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



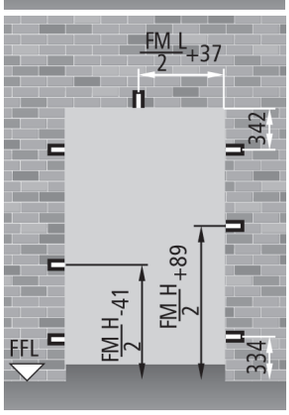
ANCHOR POSITIONING

One-leaved doors

Right opening

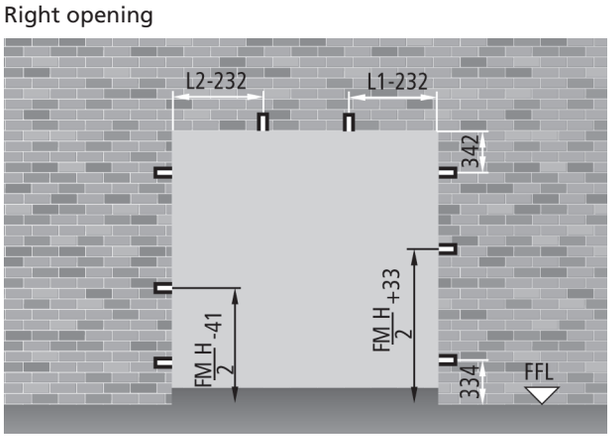


Left opening

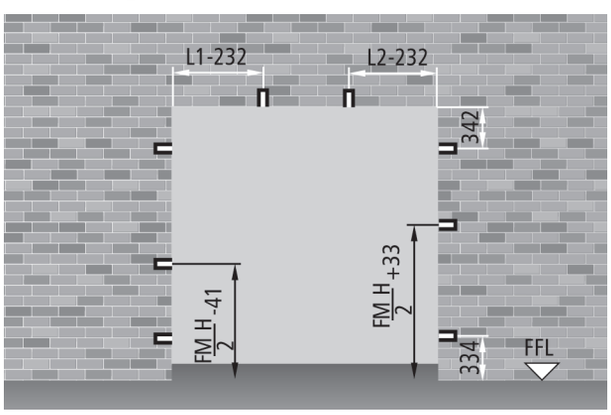


Two-leaved doors

Right opening



Left opening

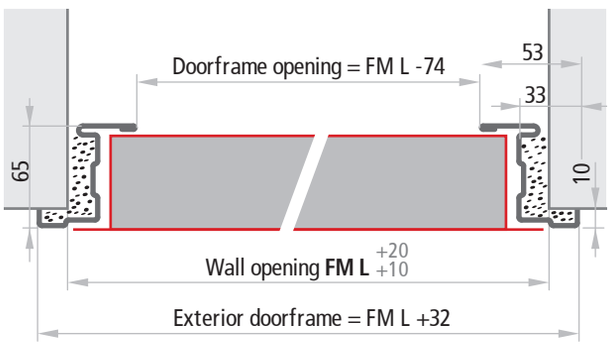


Door cross sections - Measurements

UNIVER multipurpose doors

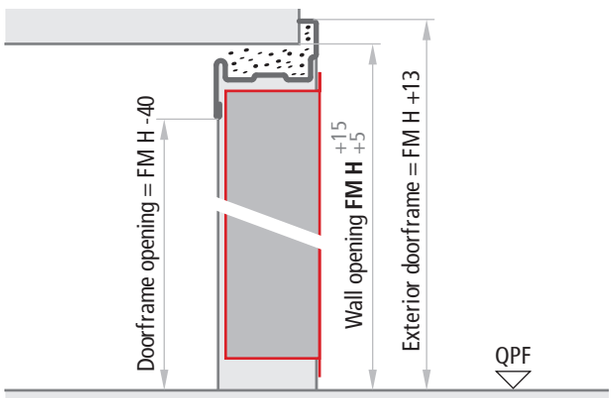
One-leaved doors

Horizontal cross section



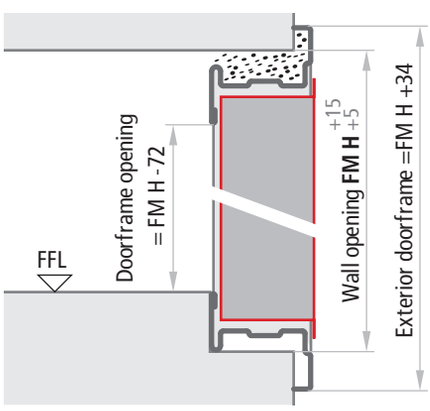
Doors without lower threshold

Vertical cross section



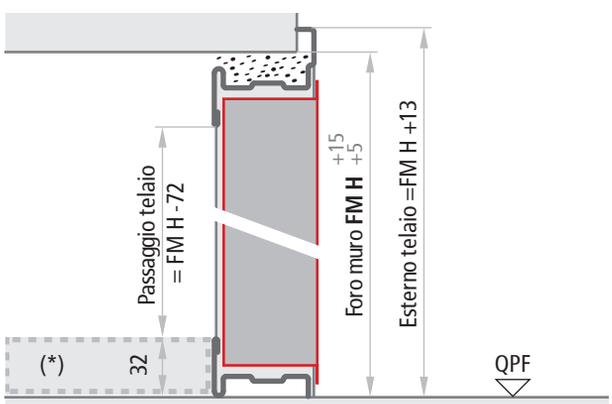
Doors with internal and external lower threshold

Vertical cross section



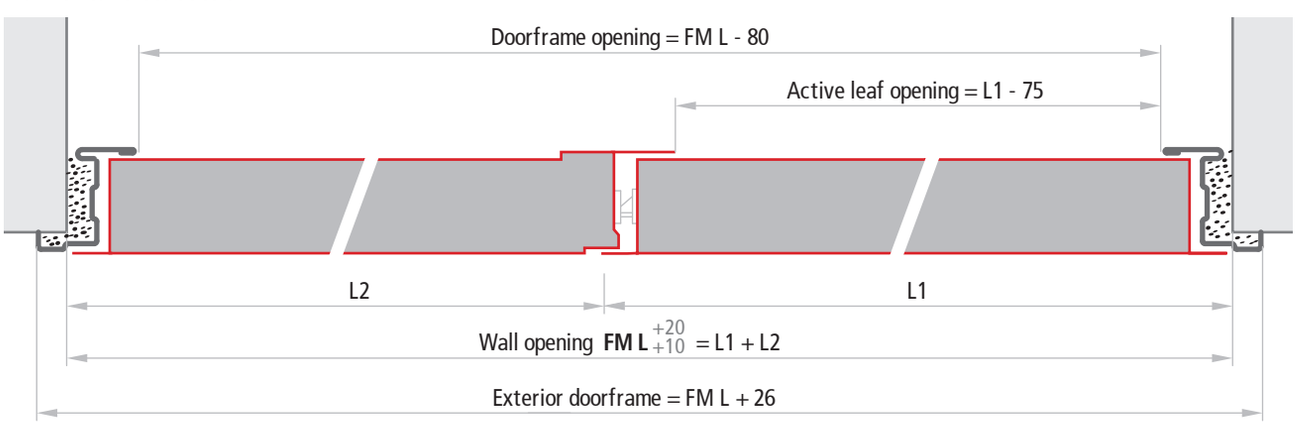
Doors with internal lower threshold

Vertical cross section



Two-leaved doors

Horizontal cross section



Leaves thickness

MULTIPURPOSE	60 mm

NOTE

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

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

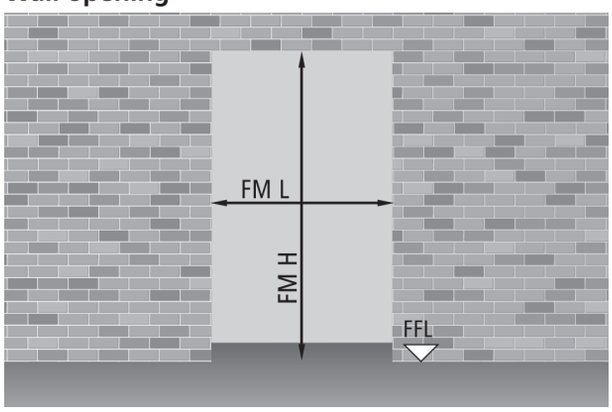
Order measurements

UNIVER multipurpose doors

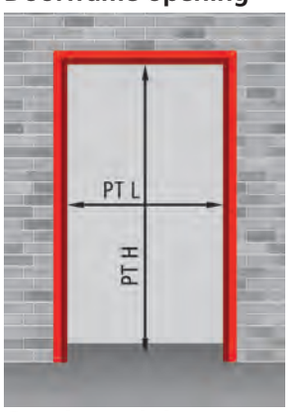
NINZ FIREDOORS

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

One-leaved door FM L x FM H

standard dimensions			PT L x PT H doorframe opening		
800	x	2050 / 2100 / 2150	726	x	2010 / 2060 / 2110
900	x	2050 / 2100 / 2150	826	x	2010 / 2060 / 2110
1000	x	2050 / 2100 / 2150	926	x	2010 / 2060 / 2110
1100	x	2050 / 2100 / 2150	1026	x	2010 / 2060 / 2110
1200	x	2050 / 2100 / 2150	1126	x	2010 / 2060 / 2110
1300	x	2050 / 2100 / 2150	1226	x	2010 / 2060 / 2110
1350	x	2050 / 2100 / 2150	1276	x	2010 / 2060 / 2110
non-standard dimensions					
from 500 to 1350	x	from 1780 to 2200	from 426 to 1276	x	from 1740 to 2160

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

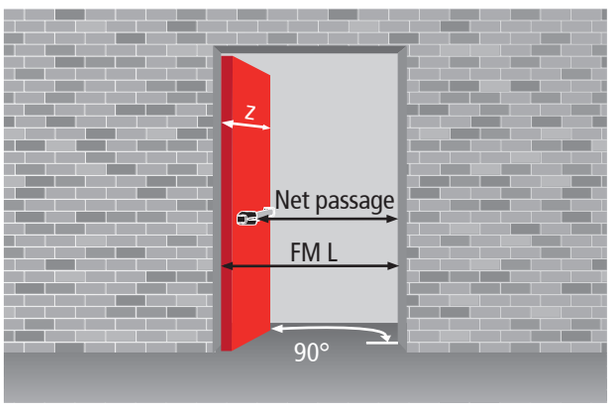
standard dimensions			PT L x PT H doorframe opening		
1150	(750 + 400)	x 2050 / 2100 / 2150	1076	x	2010 / 2060 / 2110
1200	(800 + 400)	x 2050 / 2100 / 2150	1126	x	2010 / 2060 / 2110
1250	(800 + 450)	x 2050 / 2100 / 2150	1176	x	2010 / 2060 / 2110
1300	(900 + 400)	x 2050 / 2100 / 2150	1226	x	2010 / 2060 / 2110
1350	(900 + 450)	x 2050 / 2100 / 2150	1276	x	2010 / 2060 / 2110
1400	(1000 + 400)	x 2050 / 2100 / 2150	1326	x	2010 / 2060 / 2110
1450	(1000 + 450)	x 2050 / 2100 / 2150	1376	x	2010 / 2060 / 2110
1600	(800 + 800)	x 2050 / 2100 / 2150	1526	x	2010 / 2060 / 2110
1700	(900 + 800)	x 2050 / 2100 / 2150	1626	x	2010 / 2060 / 2110
1800	(900 + 900)	x 2050 / 2100 / 2150	1726	x	2010 / 2060 / 2110
1900	(1000 + 900)	x 2050 / 2100 / 2150	1826	x	2010 / 2060 / 2110
2000	(1000 +1000)	x 2050 / 2100 / 2150	1926	x	2010 / 2060 / 2110
non-standard dimensions					
from 900 (500+400) to 2000 (1000+1000)		x from 1780 to 2200	from 826 to 1926	x	from 1740 to 2160

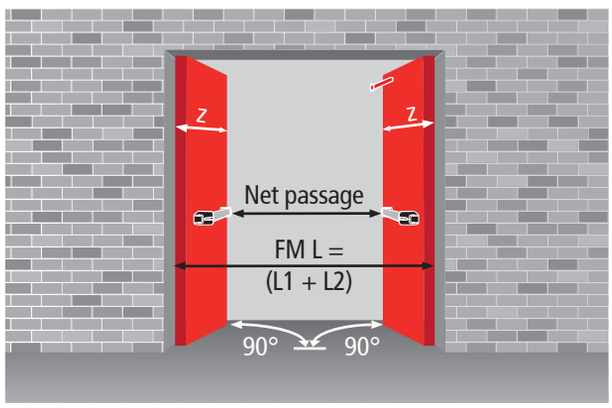
NOTE
Unless specified otherwise by the customer, two-leaved doors are supplied with a right-pull opening direction.

Opening measurements - Overall dimensions

UNIVER multipurpose doors

OPENING MEASUREMENTS AND OVERALL DIMENSIONS WITH 90 DEGREE OPENING





Net passage calculation

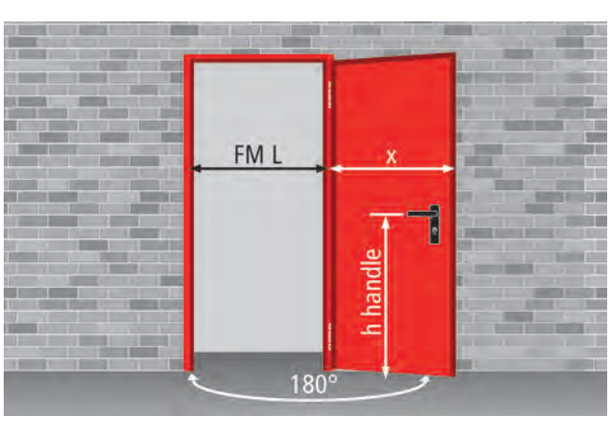
panic bar type	protrusion	one-leaved door	two-leaved door
EXUS	125	FML - 236	FML - 404
TWIST	100	FML - 211	FML - 354
SLASH	75	FML - 186	FML - 304
FAST TOUCH	75	FML - 186	FML - 304
whitout panic bar	-	FML - 111	FML - 154
z = leaf protrusion relative to the wall		FML + 29	L1 + 35 L2 + 64

OVERALL DIMENSIONS WITH 180 DEGREE OPENING - HANDLE HEIGHT

One-leaved door

z = FML + 29 x = FML + 5

h handle = FMH/2 + 50

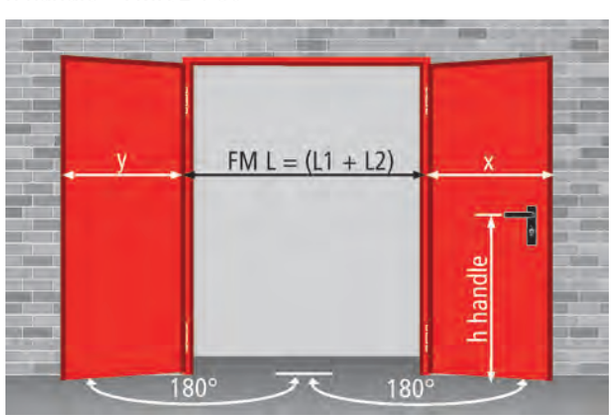


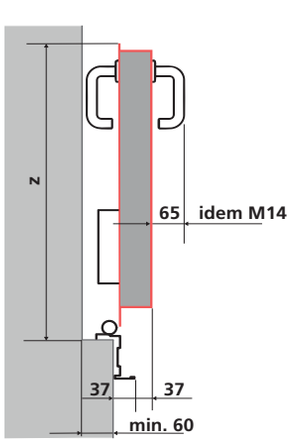
Two-leaved door

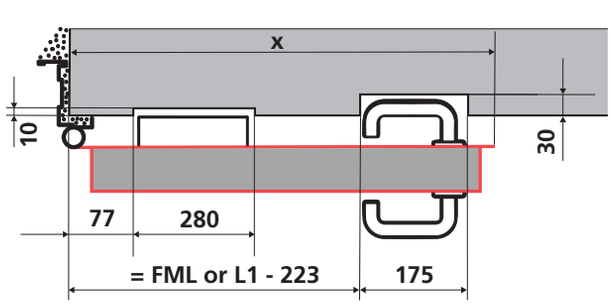
z = L1 + 35 x = L1 + 5

z = L2 + 64 y = L2 + 35

h handle = FMH/2 + 50







INSTALLATION AREA

Ninz products are typically used for internal compartmentalization and have been designed for this purpose. For this reason they must be stored and installed sheltered from direct contact of atmosferic agents and sunlight.

In cases where a product is installed for external use, in order to avoid deteriorations over time, it is mandatory to take some precautions, in particular:
- select a painting suitable for exterior use
- select fire-rated glass suitable for exterior use
- provide canopies or roofing above installed products

Only in this way it is possible to avoid any water seeping inside the goods and/or any warping of metal parts, especially in case of darker colours.

For products that incorporate REI or EI fire-rated glass, regardless of whether they are suitable for exterior use, it is further necessary to consider that:
- fire-rated glass remains stable in the range of temperature between -40°C and +50°C; exceeding this limits, the fire resistant interlayer of the glass reacts and begins to become opaque over the whole surface. Therefore it is necessary to avoid the installation near any heat source greater than 50°C and/or any lighting that may generate UV radiation
- exposure to high level of humidity may cause seeps inside of the layers, thus generating a dissolution of the interlayer. Therefore it is necessary to avoid the installation in areas with high level of humidity

It is not advisable to use the anti-panic bars EXUS LA or SLASH ALU for marine environments or in particularly humid areas. For these situations the use of the anti-panic bars EXUS LX or SLASH S.S. is recommended.

Buyers should be aware that, pursuant to and in accordance with Italian Legislative Decree D.L. 09.04.2008 Nr. 81, all doors used for emergency exits or escape routes must have a minimum height of 2000mm.

All products must be installed onto supporting walls which are perfectly vertical, well aligned and onto levelled flooring.
In order to not hinder the self-closing of fire-rated doors it is moreover important that the installation area is not subject to strong air currents.

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

The installation can be considered conform only with prior verification that the walls are in good conditions.
Related to the weight of the products, it is moreover necessary to consider preventively:
- to verify the resistance, the load bearing capacity and the fastening suitability of the walls, divisions, structures and/or crossbeams related to the installation
- that the end-user may face difficulties operating the doors, especially people with reduced mobility (disabled, seniors, in poor health, etc.). It is important to take this factor into consideration, therefore while planning the use of products and/or to always hold the leaves open by means of electromagnets

The protrusion of accessoires (for ex. handles, door closers, etc.), in case of interference with walls or other compartmentalizations, could compromise the opening of the leaf and/or create damages. In order to avoid that, buyers shall provide appropriate indents in the walls and in any case the installation of appropriate door stoppers.

INSTALLATION, USE AND MAINTENANCE

Installation of every Ninz product must be performed by specialized technicians only, using all supplied and described components, strictly in accordance with the installation, use and maintenance handbook or with the installation instructions supplied by Ninz with the products.

Any installation modifications allowed for door and/or accessoires are only those that are indicated in the installation, use and maintenance handbook, which contain also the list of elements that have been tested and approved for use.

For the maintenance and/or repair of the Ninz products use original spare parts only which are listed in the installation instructions and also in price list.

The above mentioned notices are of basic importance to provide a high level of safety for human and for goods and in compliance with relevant norms.

GLAZED FIRE-RATED PRODUCTS

REI or EI fire-rated glazed panels are submitted to rigorous quality controls during every stage of the production process. Minor optical imperfections or tiny air bubbles may be present due to the particular manufacturing process of the fire-rated glass. This does not compromise the fire resistance of the glass and does not constitute grounds for claims.

Steam cleaning is strictly forbidden for fire-rated windows.

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NINZ
FIREDOORS

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