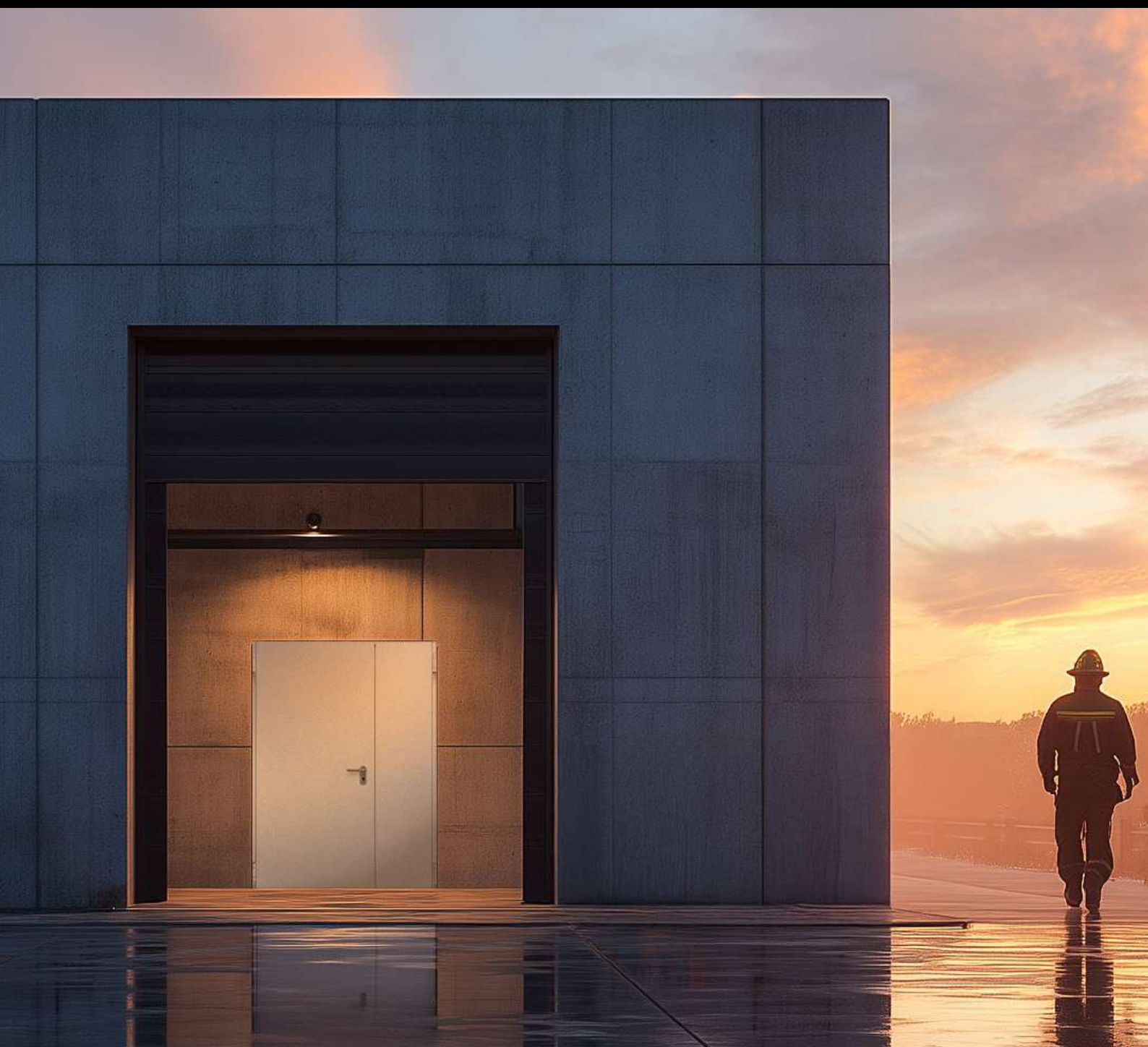


NINZ FIREDOORS

General brochure

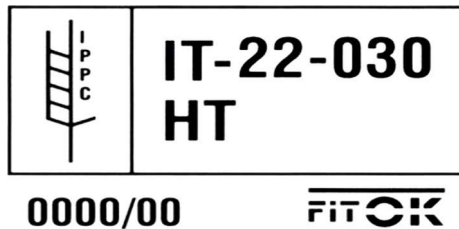


CRIBIS PRIME COMPANY CERTIFICATE

Ninz S.p.A. has been awarded the Cribis Prime Company certificate by Cribis Dun & Bradstreet, an organisation that operates globally in the field of business information and collects reports on over 200 million companies in over 230 countries.

This new recognition for the 2018 year of reliability confirms our ability to maintain our leadership position, already recognised since 2015 with the 'Rating Cribis D&B 1' certificate. We have been recognised for the quality and product level, as well as for the effective organisational, administrative and financial management of the company.

The "Prime Company" certificate attests the solidity of our company, the punctuality in payments and our reliability, which is based exclusively on its own strong financial position and the total absence of debt to credit institutions.



FITOK VOLUNTARY PHYTOSANITARY LABEL

One of Ninz S.p.A.'s key strengths has always been the punctual delivery of its products, which is made possible by the company's in-house packaging expertise. This packaging offers maximum protection against impacts during transport and perfect storage at the customer's premises before installation.

Considering this, Ninz S.p.A. has taken steps to preserve the possibility of sending its packaging to countries where phytosanitary treatment of wood is mandatory. It is important to note that wood, when used as a packaging material, represents a potential channel for the introduction and spread of harmful organisms. This is why it was necessary to implement certain phytosanitary measures in order to avoid any potential economic and environmental impacts on the world's forest heritage.

The Conlegno consortium has been recognised by the Ministry of Agriculture, Food and Forestry as the managing entity of the international product mark IPPC/FAO, which certifies phytosanitary procedures and treatments in compliance with ISPM Regulation N°15.

Ninz S.p.A. has been a member of the Conlegno consortium since 2008, obtaining the authorisation to manage and maintain the FI-TOK voluntary phytosanitary mark. Currently, Ninz purchases exclusively heat-treated wood semi-finished products from suppliers, free from parasites, which it uses to produce made-to-measure pallets and cages. Ninz S.p.A. has its own specially constructed automated plant for this purpose. As a result, Ninz is able to meet its customers' requests to mark pallets and cages with the FITOK phytosanitary mark for shipment to non-European countries that require compliance with ISPM Regulation N°15.



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





UNIVER NINZ Doors

FIRE RATED VERSION

FEATURES	8 - 11
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WHAT MAKES THEM SPECIAL?

"Quality first"

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

"Practicality of use"

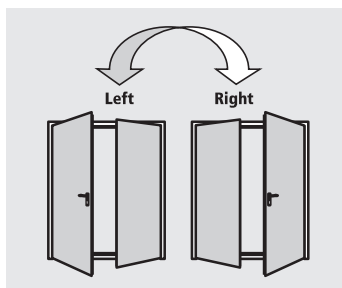
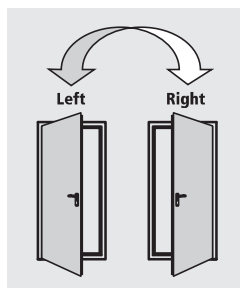
- Door reversibility
- Indication of door opening direction not necessary
- Reduction of stock for retailers
- Simplifies choices for end-customers
- Multiple installation methods for each door
- Type approvals for anchors for mortar fixing or expansion screws

"Conformity to standards"

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

"Manufacturing technology"

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



One-leaved doors available in the following classes:

E 60
 EI₂ 60
 EI₂ 90
 REI 120
 EI₂ 60 CE
 EI₂ 90 CE



Two-leaved doors available in the following classes:

EI₂ 60
 EI₂ 90
 REI 120
 EI₂ 60 CE
 EI₂ 90 CE



STANDARD ELEMENTS

Door leaf

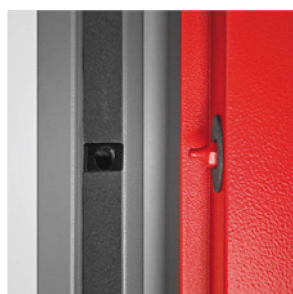
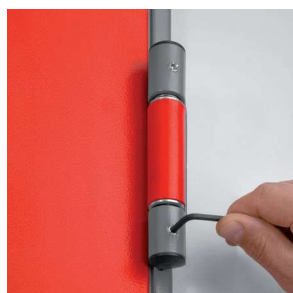
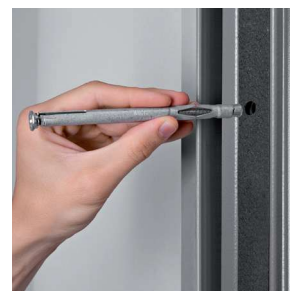
- Made of "Sendzimir" processed hot-galvanized sheet metal, press folded and electro welded
- Perimetral rebate on 4 sides
- Internally reinforced with hot-galvanized steel profiles
- Heat-insulated with treated mineral wool
- Internal stiffeners for overhead door closer and panic bar

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
- 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 EI₂90 and REI 120 leaves



Hinges

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

Safety bolts

- Nr. 2 safety bolts on hinge side leaf edge

Locking mechanism

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

Handle

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

INCLUDED ACCESSORIES

Closing regulator

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

Locking mechanism for inactive leaf

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

Upper coupling system for the inactive leaf

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

Lower coupling system for the inactive leaf

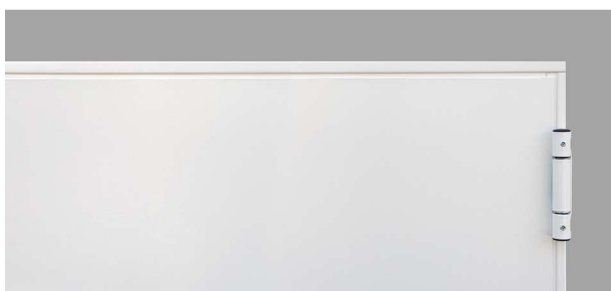
- Vertical rod with steel point which inserts into lower strike box
- Floor catch (floor-mounted floor catch) made of self-extinguishing black plastic, for doors without threshold
- Floor catch in black plastic with a steel roller, for doors with threshold

Identification plate

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



Standard paint - group 01: RAL 9010



Finishing

- Standard painted 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

Door weight

class	kg/m ² of wall opening	
	1 leaf	2 leaves
E 60	23	-
EI,60	36	35
EI,90, REI 120	43	41

NOTE

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

OPTIONAL ACCESSORIES

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

The proper accessories can help resolve:

Safety-related needs

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

Installation and utilization needs

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

Access-related control issues

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

Performance enhancing

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



NOTE

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

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

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

Customized finishing

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

Packaging for maximum protection

Sturdy wooden crates protect all doors and related accessories:

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

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

- SLASH panic bar
- Panic bar for inactive leaves
- Windows
- MAC lock
- ELM/cisa and ELM/mt electric handle
- Special locks (Stel 15)
- NDD – Ninz Digital Decor

Specific optional accessories

UNIVER Fire doors

WINDOW WITH FIRE RATED GLASS

Upon request all one- and two-leaved fire doors, excluding those E 60, EI₂30 and EI₂90 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.

Limits prescribed by standard

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

Borders, window position

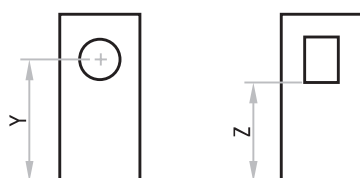
"Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

Elevation for round windows

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

Elevation for rectangular windows

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



NOTE

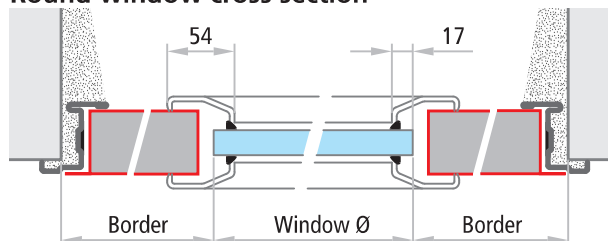
The positions indicated above are those standard. Different positions may be considered as long as they respect the minimum "a" and "b" border strips. The window itself may not be supplied separately except for replacements. It is always advisable for doors with windows to be equipped with door closers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



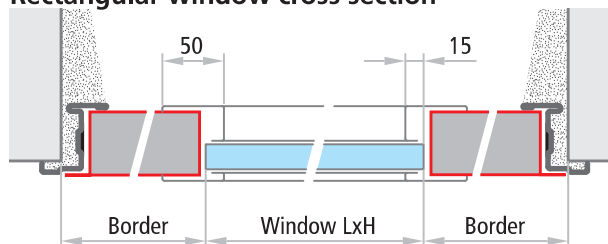
NOTE

For the rectangular windows the frame carter is an optional accessory

Round window cross section



Rectangular window cross section



ATTENTION

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

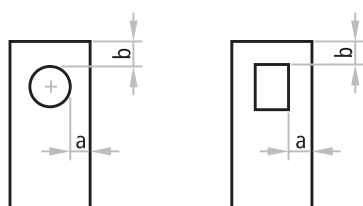
For special instructions and recommendations for glazed fire-rated products, see the "Notices" section on the last page of the present brochure.

Specific optional accessories

UNIVER Fire doors

NINZ
FIREDOORS

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



FRAME EXTENSIONS FOR UNIVER DOORS

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

IM 14

Telescopic frame extensions 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 14: for installation on 135mm (min.) wall thickness

REBATE SEALING CR

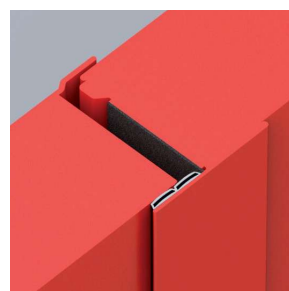
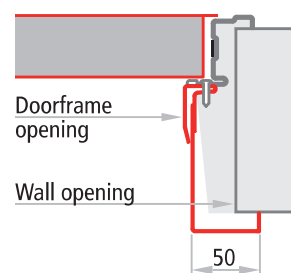
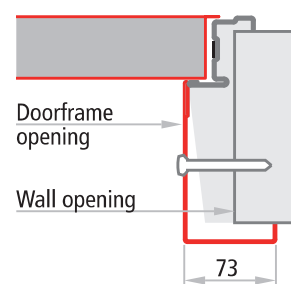
CR sealing (for EI₂ doors) and sealing (for REI doors) in black extruded profile to cut and to be pressed into the dedicated groove in the perimetral frame. Sealing in black extruded profile self-adhesive to cut for application to the central joint of two-leaved doors.

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

NOTE

Round and rectangular windows not possible for one-leaved REI doors with FM L (wall opening) above 1167mm and FM H above 2150mm.

Round windows are not allowed for CE fire doors



Additional performances

UNIVER Fire doors

NINZ
FIREDOORS

UNIVER
fire door

INTERNAL PEDESTRIAN DOORS

Test report No. CPR/35/05/2019 (E 60)

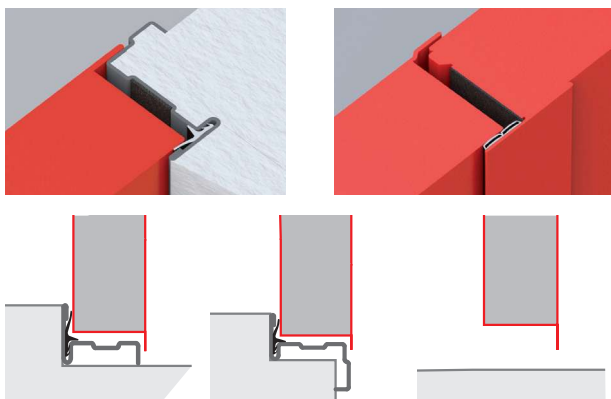
Test report No. CPR/35/04/2019 (EI₂60)

Test report No. CPR/35/07/2019 (REI 120/EI₂90)



Pedestrian interior doors are not yet subject to marking as the relevant standard EN 14351-2 has not yet entered into force. The performances contained in the standard can however be a reference for classifying the door for indoor, such as:

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



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
 - isolation of the door frame with the filling of cement mortar
 - 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
 - installation of rubber seals along the 3 sides of the frame including the central rebate for two-leaved doors
 - sealing of the perimeter of the frame (push side) with neutral silicone

ATTENTION

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

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

 Consiglio Nazionale delle Ricerche
Istituto per la BioEconomia

CNR IBE - Via F. Biagi n. 75, San Michele all'Adige - Trento T. 0461 660111 Fax 0461 650045

CNR - IBE U 0000804 13/02/2020 		LABORATORIO SERRAMENTI E FACCIE CONTINUE
RAPPORTO DI PROVA N° CPR/35/06/2019 San Michele all'Adige, 07/02/2020		
COMMITTENTE: NINZ S.p.a. Corso Trento, 2/A - 38061 Ala (TN)		
COSTRUTTORE: NINZ S.p.a. Corso Trento, 2/A - 38061 Ala (TN)		
OGGETTO: PORTA		
MODELLO: UNIVER REI 120 / EI: 90		
MATERIALE: profilato metallico, coibente		
DIMENSIONI: Spessore anta (mm) 60		
PROVE ESEGUITE SOTTO NOTIFICA (NB 2127): ☐ CALCOLO DELLA TRASMITTANZA TERMICA SECONDO NORME UNI EN ISO 10077-2:2018 e UNI EN ISO 10077-1:2018 Note:		
DATA ACCETTAZIONE PREVENTIVO: 23/12/2019 (prot.n. 0003210/2019) DATA INIZIO PROVE: 04/02/2020 DATA FINE PROVE: 06/02/2020		
IL PRESENTE RAPPORTO DI PROVA È COMPOSTO DA: n° 05 pagine di rapporto di prova n° 23 pagine di allegati tecnici		
DIRETTORE TECNICO Gala Pasotto 		
MOD 00 00 13 - Format Rev.05 Rapporto di prova rilasciato sotto notifica ai sensi del Reg. (UE) n. 305/2011 (CPR) Pg. 1/5		

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