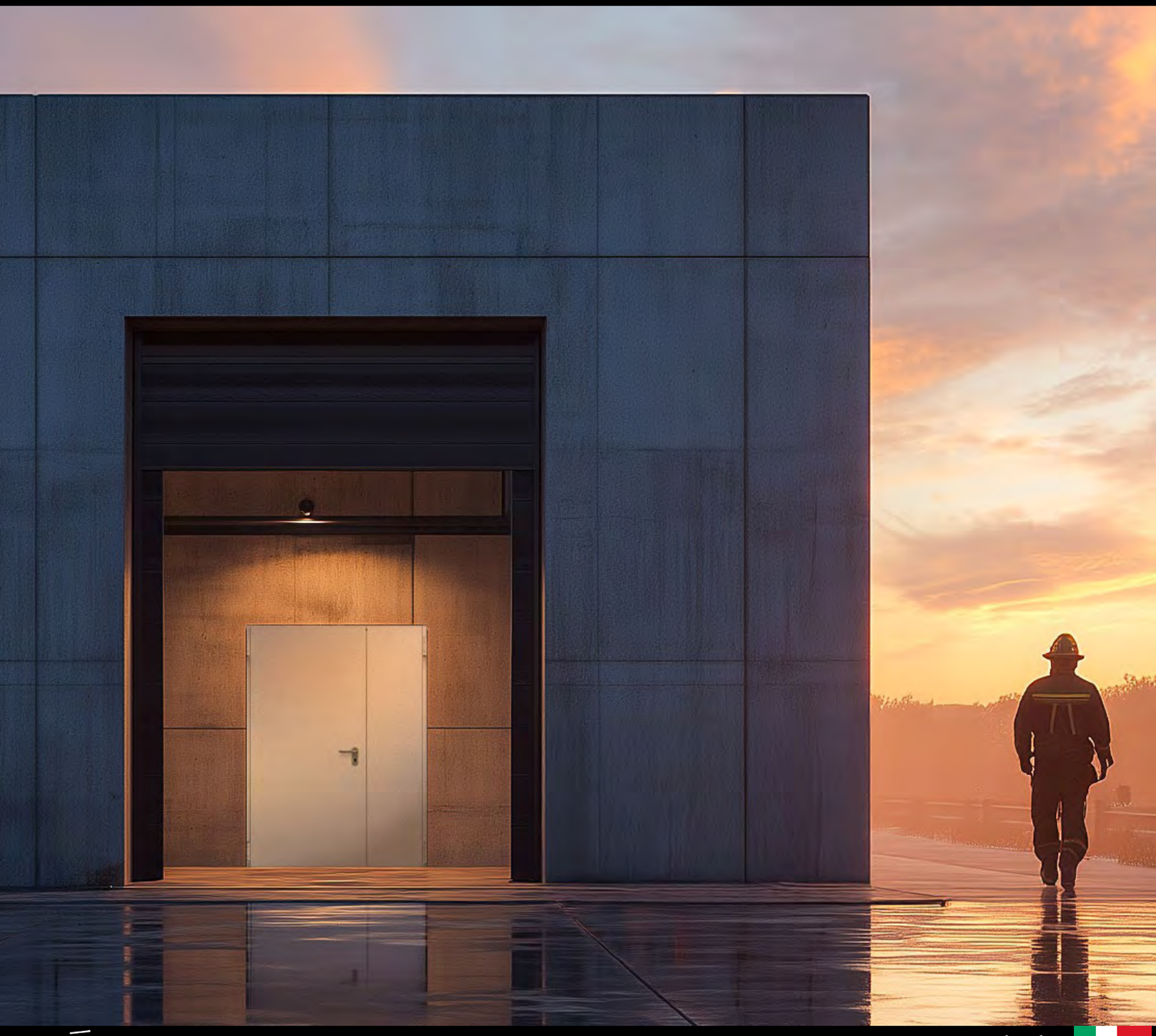
NINZ
FIREDOORS

General brochure



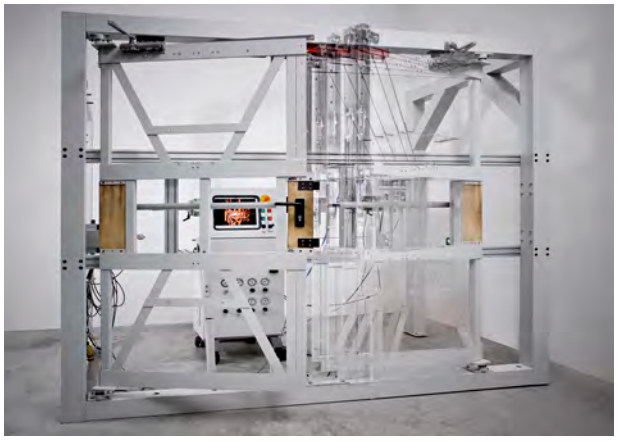
NINZ Fire doors
Company presentation

PRESENTATION - THE RELIABILITY OF EXPERIENCE

Ninz S.p.A. is Italy's leading producer of fire doors with a 70% market share. Consolidated experience in the sector, familiarity with standards and optimal quality-price ratios are the company's most distinguishing features. Over the years it has broadened its offer to include multipurpose metal doors and a wide range of accessories. In addition to Italy, Ninz S.p.A. also markets its products in more than 60 countires each year.

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

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



DESIGN AND RESEARCH - EYES ON THE FUTURE

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

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

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

PRODUCTION - VERSATILITY AND DESIGN

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

Customization of the product reaches a pinnacle with the NDD technology (Ninz Digital Decor), a trademark, NINZ decorative painting which permits any theme (words, pictures, logos) to be reproduced on the door-leaf surface. As an expression of the NDD claim, fire doors are transformed into versatile design elements at the disposal of architects and designers.
This project earned the company the prestigious "Design Security & Safety Award" in 2007.

MARKETING - A SERVICE-ORIENTED PERSPECTIVE

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

The distribution within Italy is capillary thanks to a dense network of retailers supported by over one hundred sales agents.
Punctual delivery - one of the company's strongest points - is guaranteed by the careful planning of the production and by the quality transport services, which are both organized in-house.
The service that Ninz S.p.A. offers its customers is completed by the internal technical-sales department, which assists agents and customers in the pre- and post-sales phases, and by the fitting department, which directly follows product installations at the customer's request.

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

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

ISO 9001 : 2015 CERTIFICATION

Ninz Company has always been aware of the importance of quality in the global market as a strategic factor for the success of businesses. Over the years, it has been constantly striving in order to keep these aims as a priority. According to these values, it arose from the need of concretely demonstrating achieved goals, such as quality and mutual satisfaction among customers and suppliers.As a result, the company made up the decision of undertaking the development of a quality management system, certified according to the EN ISO 9001:2015 standard under the control and verification of the certifying body CERTIFICARSI EOOD.

In summary, the EN ISO 9001:2015 system enables the overall satisfaction of all stakeholders (customers, suppliers, companies, and employees) through:
-- Definition of roles and responsibilities
-- Definition of operational procedures
-- Fulfilment of contracts and laws
-- Staff motivation and optimization of time and resource utilization, in order to increase productivity
-- Cost reduction, revenue increase and overall efficiency improvement
-- Achievement of company purposes
-- Continuous improvement of performance and corporate image.

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

CERTIFICATO

Nr. 50 100 17297 Rev.001

SI ATTESTA CHE / *THIS IS TO CERTIFY THAT*

IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
THE QUALITY MANAGEMENT SYSTEM OF

NINZ S.p.A.

SEDE LEGALE E OPERATIVA:
REGISTERED OFFICE AND OPERATIONAL SITE:
CORSO TRENTO 2/A
IT - 38061 ALA (TN)

SEDI OPERATIVE: **VEDI ALLEGATO 1** / *OPERATIONAL SITES:* ***SEE ANNEX 1***

È CONFORME AI REQUISITI DELLA NORMA
HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

UNI EN ISO 9001:2015

QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE:
THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE OF APPLICATION

Progettazione, produzione e posa in opera di chiusure tagliafuoco, porte metalliche e maniglioni antipanico e commercializzazione di accessori di completamento (IAF 17, 28)

Design, production and installation of fire door closings, metal doors and panic bar and trade of complementary accessories *(IAF 17, 28)*

Per l'Organismo di Certificazione
For the Certification Body
TÜV Italia S.r.l.

Validità / *Validity*
Dal / *From:* 2024-01-27
Al / *To:* 2027-01-26

ACCREDIA
SGQ N° 049A

Data emissione / *Issuing Date*
2024-01-17

Francesco Scarlata
Direttore Divisione Business Assurance
Business Assurance Division Manager

PRIMA CERTIFICAZIONE / *FIRST CERTIFICATION:* 2012-01-27 (EMESSO DA ALTRO ODC / *ISSUED BY OTHER CB*)

"LA VALIDITÀ DEL PRESENTE CERTIFICATO È SUBORDINATA A SORVEGLIANZA PERIODICA A 12 MESI E AL RIESAME COMPLETO DEL SISTEMA DI GESTIONE AZIENDALE CON PERIODICITÀ TRIENNALE"
"THE VALIDITY OF THE PRESENT CERTIFICATE DEPENDS ON THE ANNUAL SURVEILLANCE EVERY 12 MONTHS AND ON THE COMPLETE REVIEW OF COMPANY'S MANAGEMENT SYSTEM AFTER THREE-YEARS"

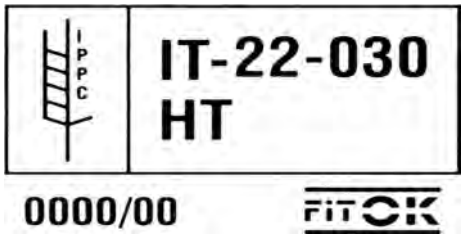
TÜV Italia • Gruppo TÜV SÜD • Viale Fulvio Testi, 280/6 • 20126 Milano • Italia • www.tuvsud.com/it

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
UNIVER Fire doors

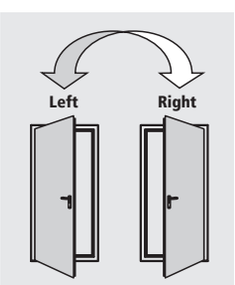
WHAT MAKES THEM SPECIAL?

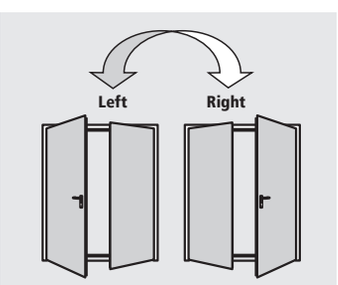
"Quality first"
- Fully galvanized door, including the "hidden" parts
- Made of "Sendzimir" processed hot-galvanized sheet metal
- Corrosion protection also provided along cut edges of the metal sheets
- Painted with epoxy-polyester thermoset powders in a 180 degrees (Celsius) oven
- Substantial paint 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 | EI_2 60 | EI_2 90 | REI 120 | EI_2 60 CE | EI_2 90 CE

Two-leaved doors available in the following classes:

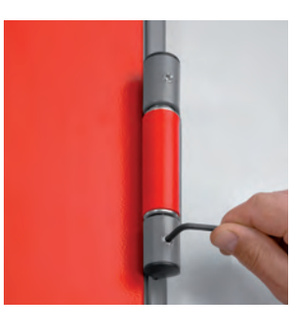
EI_2 60 | EI_2 90 | REI 120 | EI_2 60 CE | EI_2 90 CE

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 $EI_2$90 and REI 120 leaves



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

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

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

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

Features
UNIVER Fire doors

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

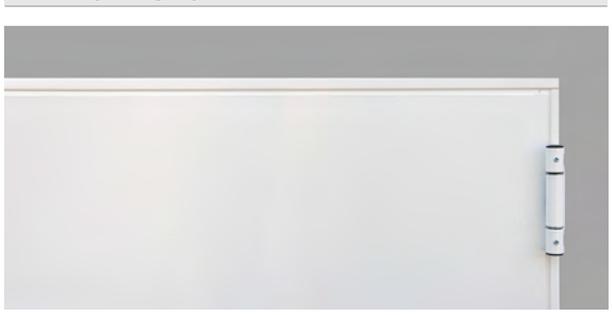
Locking mechanism for inactive leaf
- "Flush-bolt" automatic locking of the inactive leaf
- Lever control for unlocking

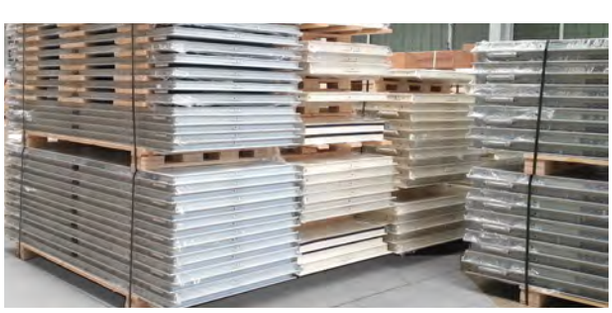
Upper coupling system for the inactive leaf
- Inactive leaf lock activated device which inserts rod into the upper strike box
- Upper strike box in black plastic with steel roller

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		kg/m² of wall opening
class	1 leaf	2 leaves
E 60	23	-
EI$_2$60	36	35
EI$_2$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, $EI_2$30 and $EI_2$90 rated, may be equipped with round or rectangular windows with fire rated stratified glass and respective window frames fixed with screws. The window frame carters are included for round window and available as an optional accessory for the rectangular one.

Limits prescribed by 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.

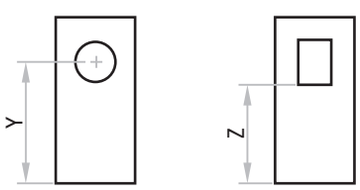
Borders, window position
"Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

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

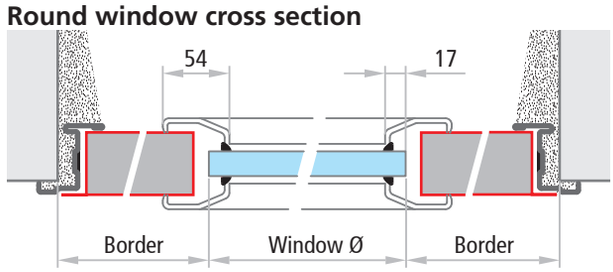
window dimensions L x H	FM H	position
250/300 x 400	minimum 2150	Z=1450
250/300 x 400	from 2050 to 2149	Z=1350
250/300 x 400	less than 2050	Z=FM H -700



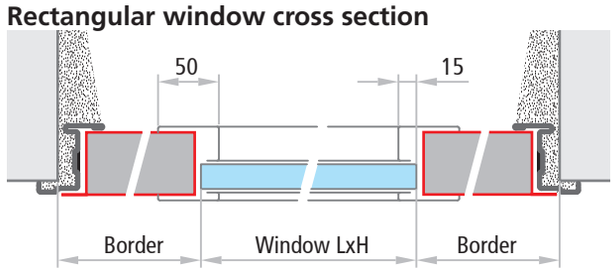
NOTE
The positions indicated above are those standard.
Different positions may be considered as long as they respect the minimum "a" and "b" border strips. The window itself may not be supplied separately except for replacements. It is always advisable for doors with windows to be equipped with door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

NOTE
For the rectangular windows the frame carters are an optional accessory

Round window cross section



Rectangular window cross section



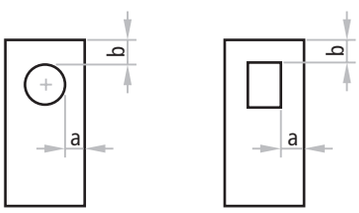
ATTENTION
In case of external installation use windows designed for this purpose.
For special instructions and recommendations for glazed fire-rated products, see the "Notices" section on the last page of the present brochure.

Specific optional accessories

UNIVER Fire doors

Window dimensions		min. border EI_2 a	min. border EI_2 b	min. border RE, REI a	min. border RE, REI b	dimensions FM L min.
	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

Window dimensions		min. border EI_2 a	min. border EI_2 b	min. border RE, REI a	min. border RE, REI b	dimensions FM L min.
	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.

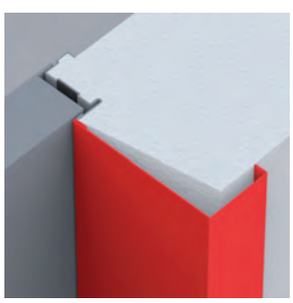
Round windows are not allowed for CE fire doors

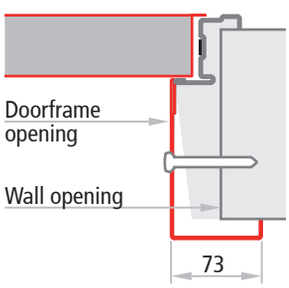
FRAME EXTENSIONS FOR UNIVER DOORS

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

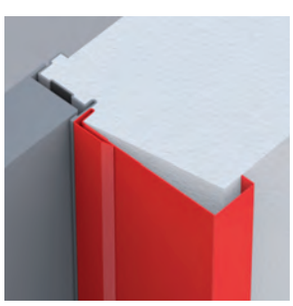


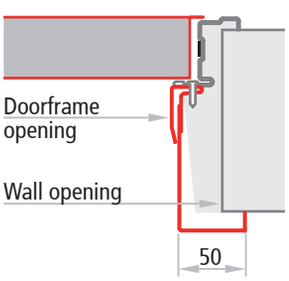


IM 14

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

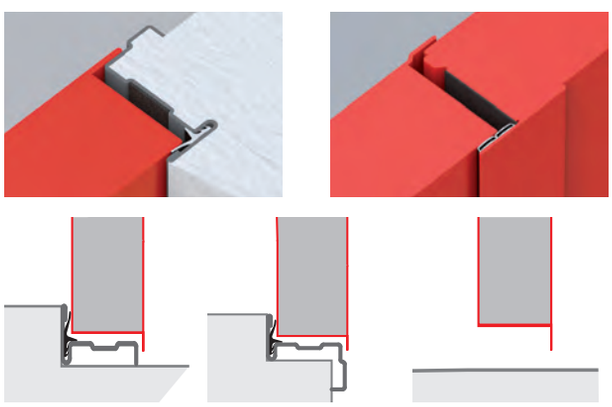
CR sealing (for EI_2 doors) and sealing (for REI doors) in black extruded profile to cut and to be pressed into the dedicated groove in the perimetral frame.
Sealing in black extruded profile self-adhesive to cut for application to the central joint of two-leaved doors.

Additional performances
UNIVER Fire doors

INTERNAL PEDESTRIAN DOORS

Test report No. CPR/35/05/2019 (E 60)
Test report No. CPR/35/04/2019 ($EI_2$60)
Test report No. CPR/35/07/2019 (REI 120/$EI_2$90)

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

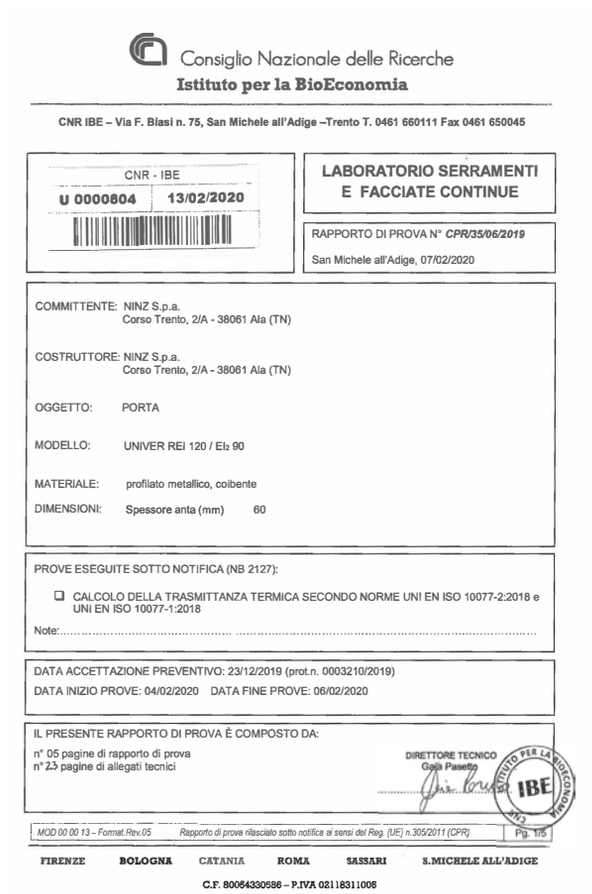


All performance values indicated in the table are valid only in presence of the following accessories or enhancements:

• 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/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.



Consiglio Nazionale delle Ricerche
Istituto per la BioEconomia

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

CNR - IBE
U 0000804 13/02/2020

LABORATORIO SERRAMENTI E FACCIATE 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_2 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
Gaia Pasetto

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

FIRENZE BOLOGNA CATANIA ROMA SASSARI S.MICHELE ALL'ADIGE
C.F. 80054330586 – P.IVA 02118311006
PEC: protocollo.ibe@pec.cnr.it

Additional performances

UNIVER Fire doors

Univer Fire doors **Test report CPR/35/07/2019** **Test report CPR/35/05/2019** **Test report CPR/35/04/2019** 		DIMENSION FM L X H	**Combo Thermo/CB with lower threshold and gasket on all 4 sides**			**Combo Thermo/SB wothout lower threshold CR and gasket on 3 sides**		
			EI_2 60	E60	REI 120	EI_2 60	E60	REI 120
Without window 	**UNI EN 1026:2001**	**≤ 3,6 m2**						
	Air permeability		**Class 2**	**Class 2**	**Class 2**	**N.PD.**	**N.PD.**	**N.PD.**
	UNI EN 10077-1-2:2018							
	Thermal transmittance		**1,5 W/m²K**	**1,6 W/m²K**	**1,5 W/m²K**	**1,5 W/m²K**	**1,6 W/m²K**	**1,5 W/m²K**

Additional performances

UNIVER Fire doors

INTERNAL PEDESTRIAN DOORS

SMOKE CONTROL

Test report IFT N° 16-000122-PR03

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

UNIVER doors are certified for smoke control according to EN 1634-3 and classified Sa/S200 according to EN 13501-2 . 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




S200, C5 ENHANCED PERFORMANCES

Mandatory accessories

Enhanced performance	features	type	mandatory optional accessories	reference in brochure
S200	Smoke control Door	1 leaf	- rubber seal CR - Nr. 1 automatic door sweep	UNIVER fire door ACCESSORIES
		2 leaves	- rubber seal CR - Nr. 2 automatic door sweep	UNIVER fire door ACCESSORIES
C5	Durability: 200,000 cycles	1 leaf	- Nr. 1 door closer	ACCESSORIES
		2 leaves	- Nr. 2 door closers	ACCESSORIES

MECHANICAL STRENGHT PERFORMANCES

Test report according to norm EN 947, EN 948, EN 949, EN 950

Performance requirements and classifications

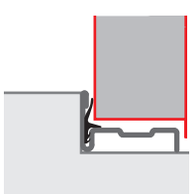
class	tested FM L X H dimensions	type	description of the performance	reached class	standard reference
$EI_2$60	2000 (1000 + 1000) x 2125	2 leaves	resistance to vertical load	4	EN 1192:2002
			resistance to static torsion	4	EN 1192:2002
			resistance to soft and heavy body impact	4	EN 1192:2002
			resistance to hard body impact	3	EN 1192:2002

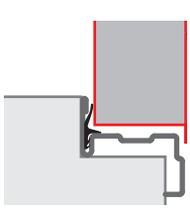
EXTERNAL PEDESTRIAN DOORS

Certificate CE 1404-CPR-3734 for $EI_2$60
Certificate CE 1404-CPR-3735 for$EI_2$90
EN 16034:2014 and 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., those are certificates 1404 - CPR - 3734 and 1404 - CPR - 3735.

Univer fire doors for external use must be ordered with the specific CE Combo Est options available in the Univer fire door 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.

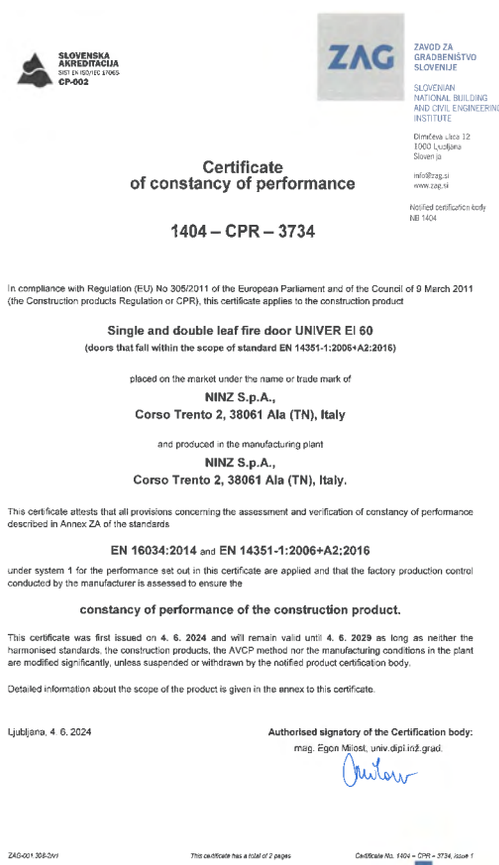

ATTENTION

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 – 3734

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 fire door UNIVER EI 60
(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-001.308-2/v1 — This certificate has a total of 2 pages — Certificate No. 1404 – CPR – 3734, issue 1

Additional performances

UNIVER Fire doors

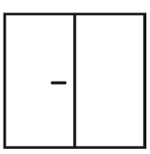
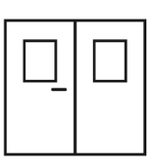
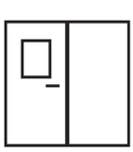
NINZ FIREDOORS

UNIVER Fire Door $EI_2$60 Certificate CE: **1404-CPR-3734**		Angular Frame	Combo with bottom rebate, CR compression seal on all four 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	✓	$EI_2$60	$EI_2$60	$EI_2$60	$EI_2$60
	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	✓	1,49 W/m²K	1,49 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	✓	$EI_2$60	$EI_2$60	$EI_2$60	$EI_2$60
	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	✓	2,01 W/m²K	2,01 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 Fire doors

NINZ FIREDOORS

UNIVER Fire Door $EI_2$60 Certificate CE: **1404-CPR-3734**		Angular Frame	Combo with bottom rebate, CR compression seal on all four 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	✓	$EI_2$60	$EI_2$60	$EI_2$60	$EI_2$60
	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					
	- Door 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 for FM ≤ 3,6 m²	✓	1,88 W/m²K	1,88 W/m²K	N.P.D.	N.P.D.
	Thermal transmittance for FM > 3,6 m²		1,52 W/m²K	1,52 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	✓	$EI_2$60	$EI_2$60	$EI_2$60	$EI_2$60
	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					
	- Door 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 for FM ≤ 3,6 m²	✓	2,91 W/m²K	2,91 W/m²K	N.P.D.	N.P.D.
	Thermal transmittance for FM > 3,6 m²		2,15 W/m²K	2,15 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 Fire doors

UNIVER Fire Door $EI_2$90 Certificate CE: **1404-CPR-3735**		ANguar Frame	Combo with bottom rebate, CR compression seal on all four 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	✓	$EI_2$90	$EI_2$90	$EI_2$90	$EI_2$90
	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	✓	1,49 W/m²K	1,49 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 Fire doors

UNIVER Fire Door $EI_2$90 Certificate CE: **1404-CPR-3735**		Angular Frame	Combo with bottom rebate, CR compression seal on all four 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	✓	$EI_2$90	$EI_2$90	$EI_2$90	$EI_2$90
	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					
	- Door 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 for FM ≤ 3,6 m^2	✓	1,88 W/m^2K	1,88 W/m^2K	N.P.D.	N.P.D.
	Thermal transmittance for FM > 3,6 m^2	✓	1,51 W/m^2K	1,51 W/m^2K	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 Fire doors

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

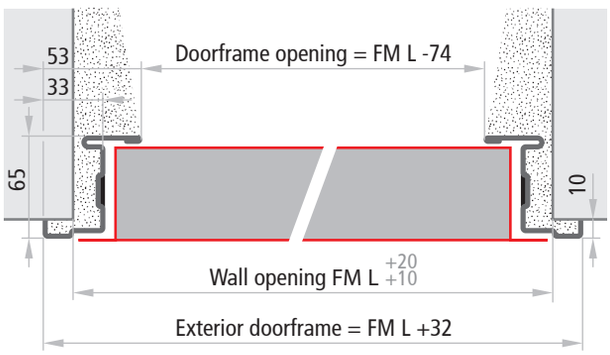
WARNING
For doors exposed to weather conditions and/or direct sunlight, the customer must take appropriate precautions to prevent long-term deterioration, in particular:
- Canopies or overhangs
- Outdoor paint with UV protection
- Use of light RAL colours to avoid overheating of metal sheets

Door cross sections - Measurements

UNIVER Fire doors

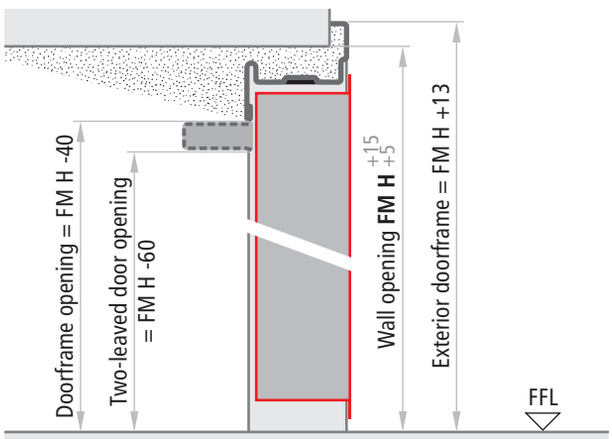
One-leaved doors

Horizontal cross section



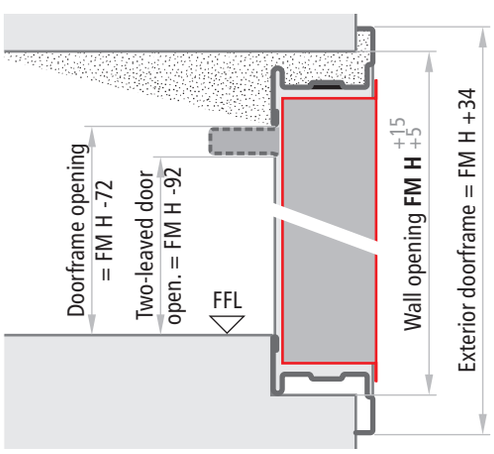
Doors without lower threshold

Vertical cross section



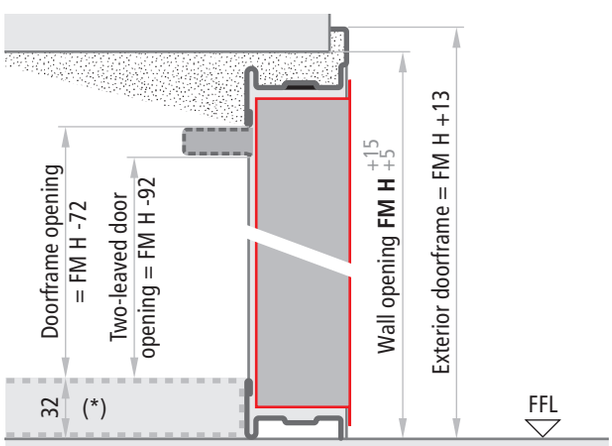
Doors with internal and external lower thresholds

Vertical cross section



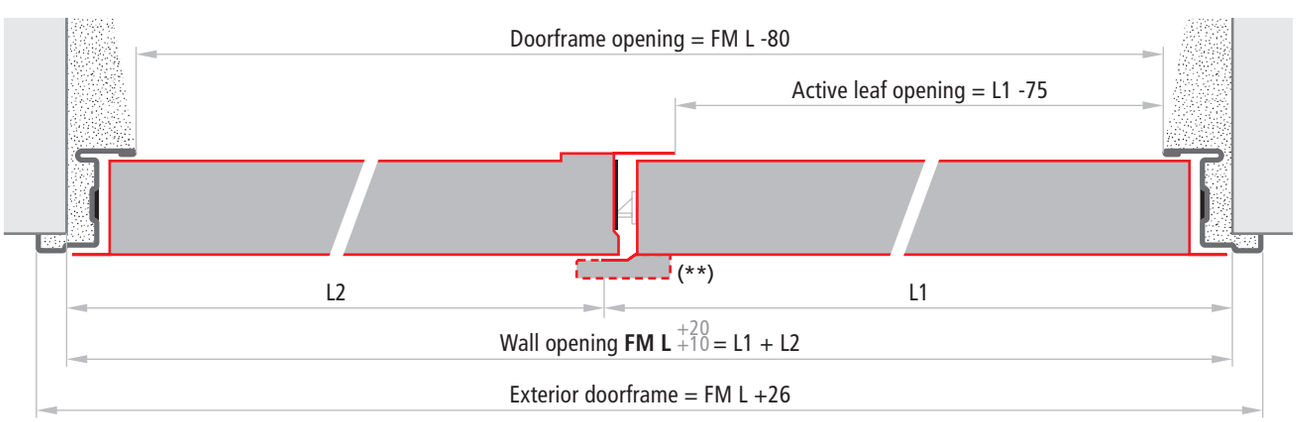
Doors with internal lower threshold

Vertical cross section



Two-leaved doors

Horizontal section



Leaves thickness

Fire doors	60 mm

NOTE

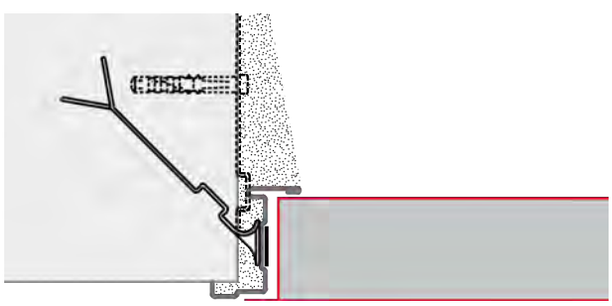
The tolerances FM L $^{+20}_{+10}$, FM H $^{+15}_{+5}$ of the indicated measurements make it easier to fill the gap between the wall and the doorframe with cement mortar.
(*) Shimming to be done, mandatory in case of installation onto emergency exit routes.
(**) Only for $EI_2$90 fire rated doors

Installation methods

UNIVER Fire doors

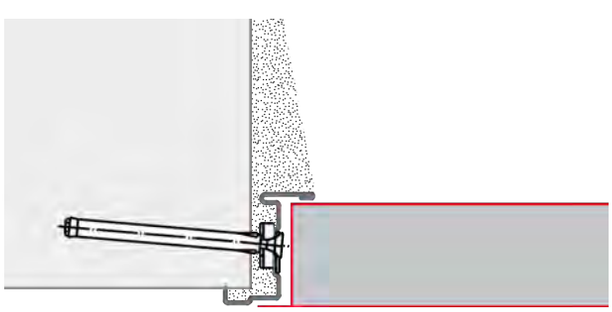
INSTALLATION WITH ANCHORS FOR MORTAR FIXING

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



INSTALLATION FOR EXPANSION SCREWS FIXING

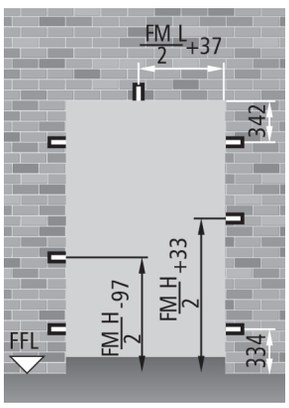
For the installation with expansion screws, the anchors serve as spacers and should not be bent. Using Würth type art. 0910436112 plugs or similar (supplied at the customer's expense), installation requires holes to be drilled through the thermo expansive sealing. The doorframe has pre-drilled holes.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



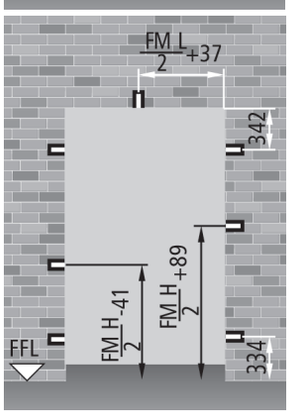
ANCHOR POSITIONING

One-leaved doors

Right opening

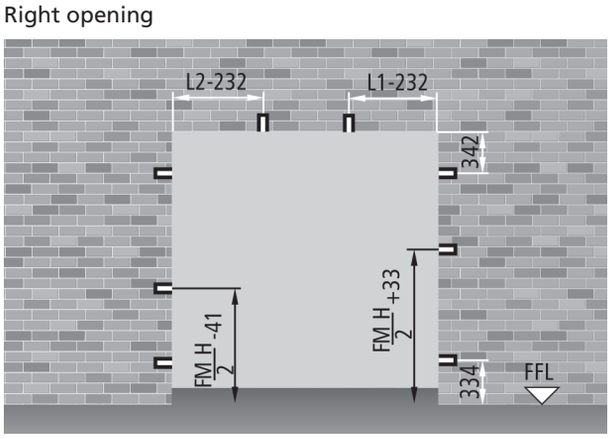


Left opening

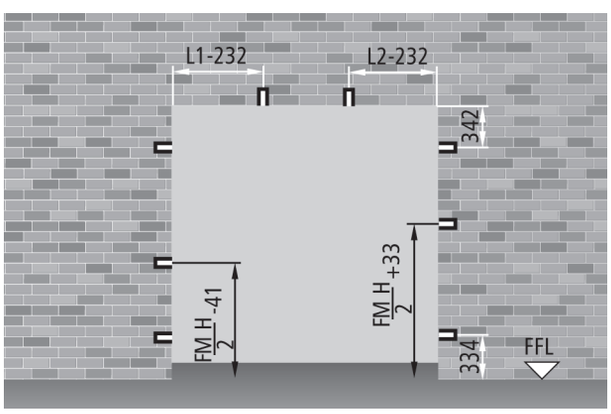


Two-leaved doors

Right opening

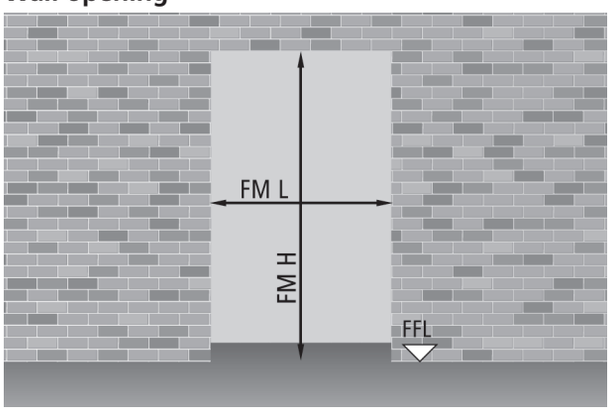


Left opening

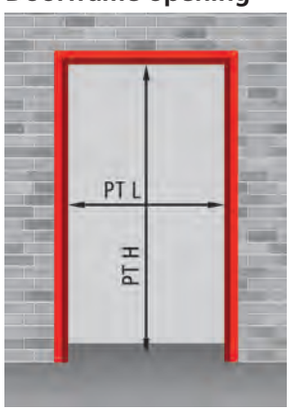


ORDER MEASUREMENTS

Wall opening



Doorframe opening



E 60 one-leaved doors FM L x FM H			PT L x PT H			fire-rating
standard dimensions			**doorframe opening**			**class**
800	x	2050 / 2100 / 2150	726	x	2010 / 2060 / 2110	**E 60**
900	x	2050 / 2100 / 2150	826	x	2010 / 2060 / 2110	**E 60**
1000	x	2050 / 2100 / 2150	926	x	2010 / 2060 / 2110	**E 60**
1100	x	2050 / 2100 / 2150	926	x	2010 / 2060 / 2110	**E 60**
non-standard dimensions						
from 540 to 1150	x	from 1780 to 2150	from 466 to 1076	x	from 1740 to 2110	**E 60**

EI one-leaved doors FM L x FM H			PT L x PT H			fire-rating
standard dimensions			**doorframe opening**			**class**
800	x	2050 / 2100 / 2150	726	x	2010 / 2060 / 2110	**$EI_2$60, $EI_2$90**
900	x	2050 / 2100 / 2150	826	x	2010 / 2060 / 2110	**$EI_2$60, $EI_2$90**
1000	x	2050 / 2100 / 2150	926	x	2010 / 2060 / 2110	**$EI_2$60, $EI_2$90**
1100	x	2050 / 2100 / 2150	1026	x	2010 / 2060 / 2110	**$EI_2$60**
non-standard dimensions						
from 540 to 1150	x	from 1780 to 2150	from 466 to 1076	x	from 1740 to 2110	**$EI_2$60**
from 540 to 1000	x	from 1780 to 2150	from 466 to 926	x	from 1740 to 2110	**$EI_2$90**

REI one-leaved doors FM L x FM H			PT L x PT H			fire-rating
standard dimensions			**doorframe opening**			**class**
800	x	2050 / 2100 / 2150	726	x	2010 / 2060 / 2110	**REI 120**
900	x	2050 / 2100 / 2150	826	x	2010 / 2060 / 2110	**REI 120**
1000	x	2050 / 2100 / 2150	926	x	2010 / 2060 / 2110	**REI 120**
1100	x	2050 / 2100 / 2150	1026	x	2010 / 2060 / 2110	**REI 120**
1200	x	2050 / 2100 / 2150	1126	x	2010 / 2060 / 2110	**REI 120**
1300	x	2050 / 2100 / 2150	1226	x	2010 / 2060 / 2110	**REI 120**
1350	x	2050 / 2100 / 2150	1276	x	2010 / 2060 / 2110	**REI 120**
non-standard dimensions						
from 540 to 1350	x	from 1780 to 2150	from 466 to 1276	x	from 1740 to 2110	**REI 120**

Order measurements

UNIVER Fire doors

NINZ FIREDOORS

EI two-leaved doors FM L x FM H				PT L x PT H	H net passage	fire-rating
standard dimensions				**doorframe opening**	**for RC/STD encumbrance**	**class**
1200	(600 + 600)	x	2050 / 2100 / 2150	1120 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60**
1200	(700 + 500)	x	2050 / 2100 / 2150	1120 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60**
1300	(650 + 650)	x	2050 / 2100 / 2150	1220 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60**
1300	(800 + 500)	x	2050 / 2100 / 2150	1220 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60, $EI_2$90**
1400	(700 + 700)	x	2050 / 2100 / 2150	1320 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60**
1400	(900 + 500)	x	2050 / 2100 / 2150	1320 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60, $EI_2$90**
1500	(750 + 750)	x	2050 / 2100 / 2150	1420 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60**
1500	(1000 + 500)	x	2050 / 2100 / 2150	1420 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60, $EI_2$90**
1600	(800 + 800)	x	2050 / 2100 / 2150	1520 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60, $EI_2$90**
1700	(900 + 800)	x	2050 / 2100 / 2150	1620 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60, $EI_2$90**
1800	(900 + 900)	x	2050 / 2100 / 2150	1720 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60, $EI_2$90**
1900	(1000 + 900)	x	2050 / 2100 / 2150	1820 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60, $EI_2$90**
2000	(1000 + 1000)	x	2050 / 2100 / 2150	1920 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**$EI_2$60, $EI_2$90**
non-standard dimensions						
from 1000 (500+ 500) to 2000 (1000+1000)		x	from 1780 to 2150	from 920 x from 1740 to 1920 to 2110	from 1720 to 2090	**$EI_2$60, $EI_2$90**

REI two-leaved doors FM L x FM H				PT L x PT H	H net passage	fire-rating
standard dimensions				**doorframe opening**	**for RC/STD encumbrance**	**class**
1150	(750 + 400)	x	2050 / 2100 / 2150	1070 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**REI 120**
1200	(800 + 400)	x	2050 / 2100 / 2150	1120 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**REI 120**
1250	(800 + 450)	x	2050 / 2100 / 2150	1170 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**REI 120**
1300	(900 + 400)	x	2050 / 2100 / 2150	1220 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**REI 120**
1350	(900 + 450)	x	2050 / 2100 / 2150	1270 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**REI 120**
1400	(1000 + 400)	x	2050 / 2100 / 2150	1320 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**REI 120**
1450	(1000 + 450)	x	2050 / 2100 / 2150	1370 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**REI 120**
1600	(800 + 800)	x	2050 / 2100 / 2150	1520 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**REI 120**
1700	(900 + 800)	x	2050 / 2100 / 2150	1620 x 2010 / 2060 / 2110	1990 / 2040 / 2090	**REI 120**
1800	(900 + 900)	x	2050 / 2100 / 2150	1720 x 2010 / 2060 /2110	1990 / 2040 / 2090	**REI 120**
1900	(1000 + 900)	x	2050 / 2100 / 2150	1820 x 2010 / 2060 /2110	1990 / 2040 / 2090	**REI 120**
2000	(1000 + 1000)	x	2050 / 2100 / 2150	1920 x 2010 / 2060 /2110	1990 / 2040 / 2090	**REI 120**
non-standard dimensions						
from 940 (540+ 400) to 2000 (1000+1000)		x	from 1780 to 2150	from 920 x from 2011 to 1920 to 2110	from 1720 to 2090	**REI 120**

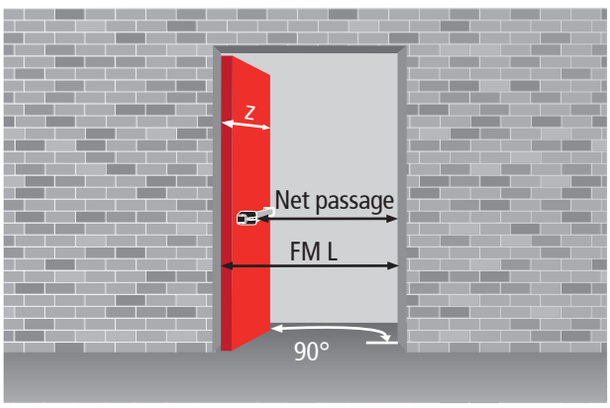
NOTE

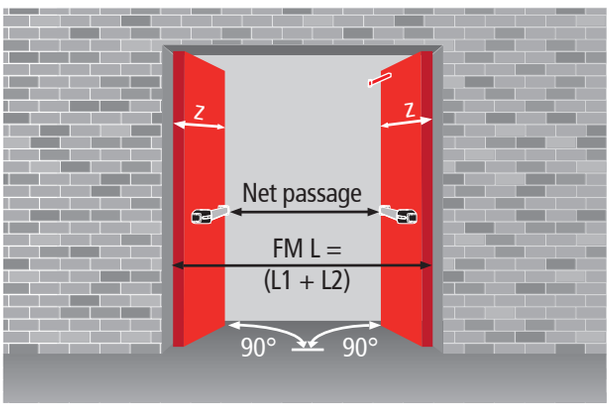
Unless specified otherwise by the customer, two-leaved doors are supplied with a right-pull opening direction.

Opening measurements - Overall dimensions

UNIVER Fire doors

OPENING MEASUREMENTS AND OVERALL DIMENSIONS WITH 90 DEGREE OPENING





Net passage calculation		E 60	EI_260 - EI_290 - REI 120	EI_260 - EI_290 - REI 120
panic bar type	**protrusion**	**one-leaved doors**	**one-leaved doors**	**two-leaved doors**
EXUS	125	FML - 226	FML - 236	FML - 404
TWIST	100	FML - 201	FML - 211	FML - 354
SLASH	75	FML - 176	FML - 186	FML - 304
FAST TOUCH	75	FML - 176	FML - 186	FML - 304
without panic bar	-	FML - 101	FML - 111	FML - 154
z = leaf protrusion relative to the wall		FML + 29	FML + 29	L1 + 35 L2 + 64

OVERALL DIMENSIONS WITH 180 DEGREE OPENING - HANDLE HEIGHT

One-leaved doors

x = FML + 5

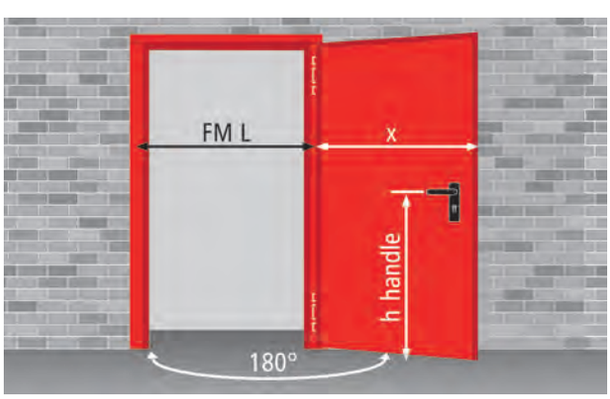
h handle = FMH/2 + 50

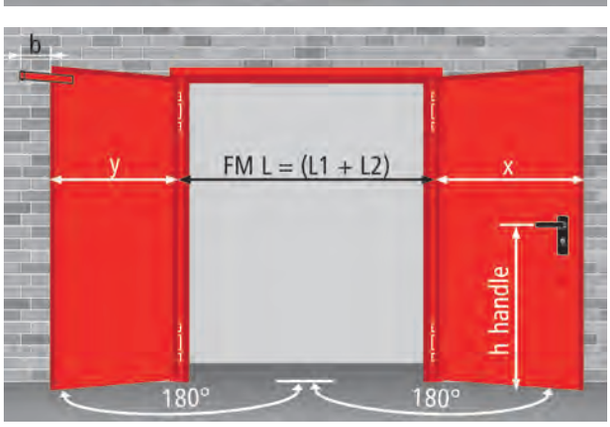
Two-leaved doors

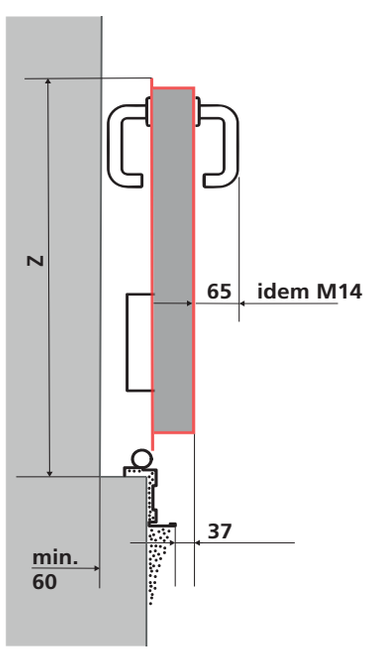
x = L1 + 5 y = L2 + 35

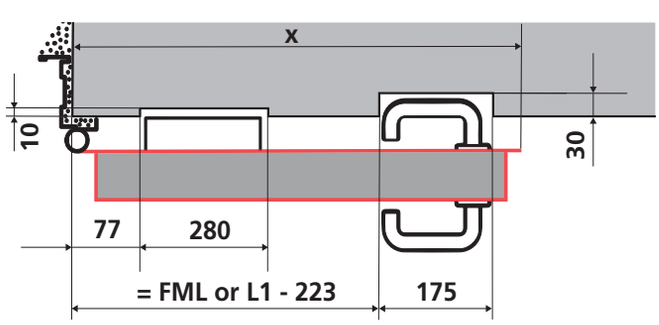
h handle = FMH/2 + 50

b = 130 (only in the presence of panic bars or M14 handles)










“fire protection excellence,
flexibility custom-made“
EXIT
EXIT
EXIT

PROGET NINZ Doors

FIRE RATED VERSION

Features
PROGET Fire doors

NINZ FIREDOORS

THE FIRE DOOR IN A CLASS OF ITS OWN

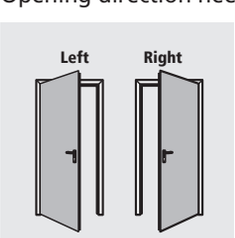
"Indisputable quality"
- Especially sturdy door for safe functioning over time
- Ideal for application to uneven or weak walls
- Fully isolated frame for true "dry wall installation"
- Built to order for all kinds of requests
- Fully galvanized door, including the "hidden" parts
- Made of hot-galvanized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

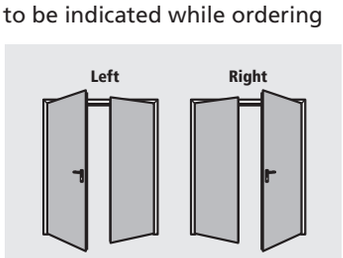
"Practicality of use"
- Truly sturdy frame that facilitates anchoring to the wall
- Suitable for all wall types
- Different installation methods to choose from
- Significantly reduced installation times
- Type approvals for multiple installations to different wall types
- Ample size range
- Wide variety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

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

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

Opening direction
Opening direction needs to be indicated while ordering





One-leaved doors available in the following classes:

$EI_2$60 $EI_2$120 REI 60 REI 120 EI_2 60 CE

Two-leaved doors available in the following classes:

$EI_2$60 $EI_2$90 REI 60 REI 120 EI_2 60 CE

STANDARD ELEMENTS

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

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

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

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

Safety bolts
- Nr. 1 or 2 or 3 safety bolts applied on hinge side leaf edge

Locking mechanism
- Reversible locking mechanism with bolt and central latch for $EI_2$60, $EI_2$90 REI 60 and REI 120 doors
- Three locking point mechanism for one-leaved $EI_2$120 doors
- CE marked in conformity with EN 12209 standard
- Insert with patent key, Euro profile cylinder ready

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

Features
PROGET Fire doors

INCLUDED ACCESSORIES

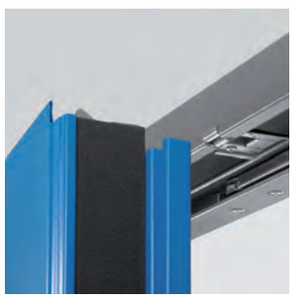
Closing regulator
- Standard two-leaved doors include an RC/STD closing regulator to ensure the correct closing sequence of the leaves, except those with environmental characteristics for which the RC2 system is mandatory (to be ordered with the door).
- CE marking in conformity with EN 1158 standard

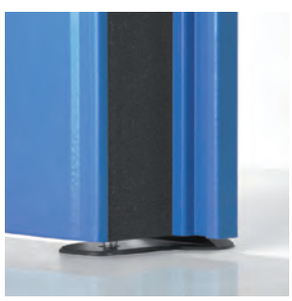
Locking mechanism for inactive leaf
- "Flush-bolt" automatic locking of the inactive leaf
- Lever control for unlocking

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

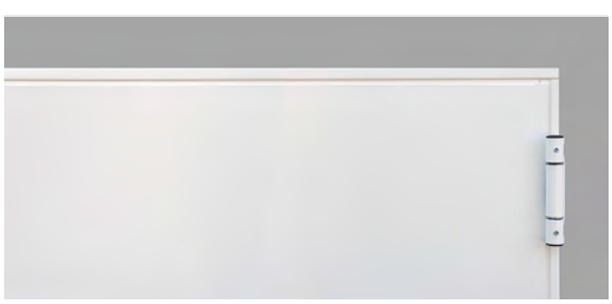
Lower coupling system for the inactive leaf
- Vertical rod with steel point which inserts into lower strike box
- Lower floor catch (floor-mounted bushing) made of self-extinguishing black plastic with rebate stopper

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





Standard paint - group 01: 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 leaf wrapped into stretchable polyethylene (PE) film
- Single packaging for each doorframe with stretchable polyethylene (PE) film
- Palletized on wooden pallets

Door weight	class	kg/m² of wall opening
1 leaf	$EI_2$60, REI 60	37
2 leaves	$EI_2$60, REI 60	35
1 leaf	$EI_2$120, REI 120	42
2 leaves	$EI_2$90, REI 120	40

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

INSTALLATION ONTO OTHER WALL TYPES

Other types of installation are possible, all of which have been rigorously certified and approved
- Frame for dry wall installation with expansion screws
- Frame for dry wall installation with screws onto the sub-frame
- Block frame for in the reveal application
- Embracing frame for lightweight constructions installation

OPTIONAL ACCESSORIES

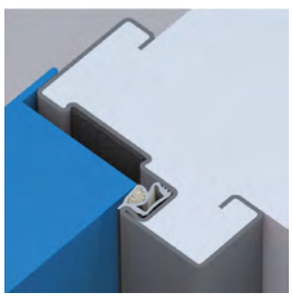
A wide variety of accessories and surface finishes are available on request for maximum value enhancement of Proget doors to your own specific needs. The proper accessories can help resolve:

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

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

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

ndd



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

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

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

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

Specific optional accessories
PROGET Fire doors

WINDOW WITH FIRE RATED GLASS

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

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

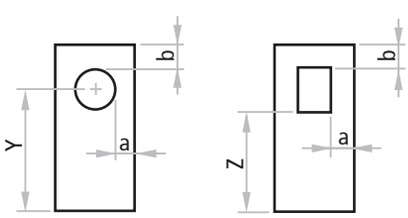
Borders, window position
"Border measurement" refers to the distance from the edge of the window to the wall opening of the door.

Elevation for round windows

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

Elevation for rectangular windows

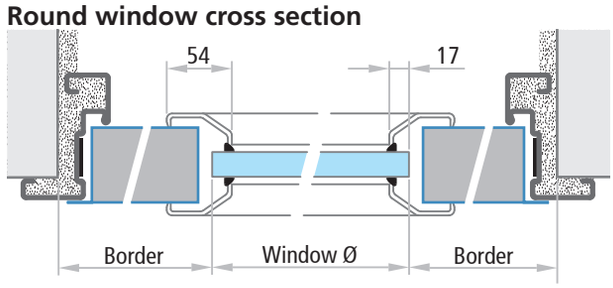
window dimensions L x H	FM H	position
300 x 400	minimum 2150	Z=1450
300 x 400	from 2050 to 2149	Z=1350
300 x 400	less than 2050	Z=FM H -700
400 x 600	minimum 2150	Z=1250
400 x 600	from 2050 to 2149	Z=1150
400 x 600	less than 2050	Z=FM H - 900
400 x 1200	minimum 2150	Z=650
400 x 1200	from 2050 to 2149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



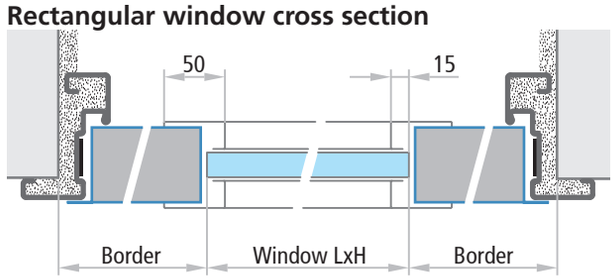
NOTE
Position and measurements indicated above are those standard.
Different positions and measurements may be considered as long as they respect the minimum "a" and "b" border strips and maximal measurements mentioned in the certificate for the window. The window itself may not be supplied separately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

NOTE
For the rectangular windows the frame carters are an optional accessory

Round window cross section



Rectangular window cross section



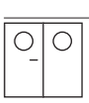
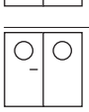
ATTENTION
For special instructions and recommendations for glazed fire-rated products, see the "Notices" section on the last page of the present brochure.

Specific optional accessories

PROGET Fire doors

NINZ FIREDOORS

EI WINDOW SPECIFICATIONS BASED ON INSTALLATION METHOD

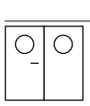
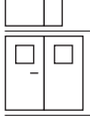
model	min./max. window L	x	H	border strip a	b	mortar fixing	expansion screws	lightweight constructions with embracing frame	block frame	EI_260	EI_290	EI_2120	dimensions FM L (L1 + L2) x FM H
	Ø 300			300	300	✓	✓	✓	✓	✓			from 900 to 1340 x from 1950 to 2600
	Ø 400			300	300	✓	✓	✓	✓	✓			from 1000 to 1340 x from 1950 to 2600
	Ø 300			300	300	✓	✓		✓			✓	from 900 to 1340 x from 1900 to 2640
	Ø 400			300	300	✓	✓		✓			✓	from 1000 to 1340 x from 1900 to 2640
	from 250 to 700		from 250 to 650	300	300	✓	✓	✓		✓			from 850 to 1340 x from 1950 to 2600
	from 250 to 670		from 250 to 620	300	300				✓	✓			from 850 to 1340 x from 1950 to 2600
	from 250 to 600		from 250 to 400	370	300	✓	✓		✓			✓	from 990 to 1340 x from 1900 to 2640
	Ø 300			300	300	✓	✓	✓	✓	✓			from 1250 (900 + 350) to 2540 (1270 + 1270) x from 1775 to 2600
	Ø 400			300	300	✓	✓	✓	✓	✓			from 1350 (1000 + 350) to 2540 (1270 + 1270) x from 1775 to 2600
	Ø 300			300	300	✓	✓		✓		✓		from 1475 (900 + 575) to 2270 (1150 + 1120) x from 1775 to 2300
	Ø 400			300	300	✓	✓		✓		✓		from 1575 (1000 + 575) to 2270 (1150 + 1120) x from 1775 to 2300
	Ø 300			300	300	✓	✓	✓	✓	✓			from 1800 (900 + 900) to 2540 (1270 + 1270) x from 1775 to 2600
	Ø 400			300	300	✓	✓	✓	✓	✓			from 2000 (1000 + 1000) to 2540 (1270 + 1270) x from 1775 to 2600
	Ø 300			300	300	✓	✓		✓		✓		from 1800 (900 + 900) to 2270 (1150 + 1120) x from 1775 to 2300
	Ø 400			300	300	✓	✓		✓		✓		from 2000 (1000 + 1000) to 2270 (1150 + 1120) x from 1775 to 2300
	from 250 to 700		from 250 to 650	300	300	✓	✓	✓		✓			from 1200 (850 + 350) to 2540 (1270 + 1270) x from 1775 to 2600
	from 250 to 670		from 250 to 620	300	300				✓	✓			from 1200 (850 + 350) to 2540 (1270 + 1270) x from 1775 to 2600
	from 250 to 600		from 250 to 400	300	300	✓	✓		✓		✓		from 1425 (850 + 575) to 2270 (1150 + 1120) x from 1775 to 2300
	from 250 to 700		from 250 to 650	300	300	✓	✓	✓		✓			from 1700 (850 + 850) to 2540 (1270 + 1270) x from 1775 to 2600
	from 250 to 670		from 250 to 620	300	300				✓	✓			from 1700 (850 + 850) to 2540 (1270 + 1270) x from 1775 to 2600
	from 250 to 600		from 250 to 400	300	300	✓	✓		✓		✓		from 1700 (850 + 850) to 2270 (1150 + 1120) x from 1775 to 2300

Specific optional accessories

PROGET Fire doors

NINZ FIREDOORS

REI WINDOW SPECIFICATIONS BASED ON INSTALLATION METHOD

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

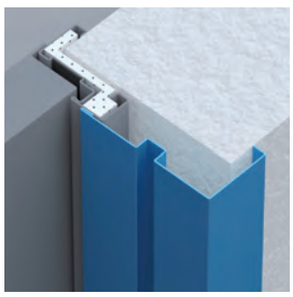
NOTE

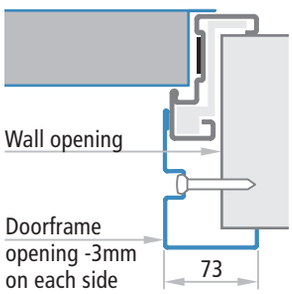
(*) Windows only possible for the minimum size of 0,25m², and only on one-leaved doors or the active leaf of two-leaved doors.

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

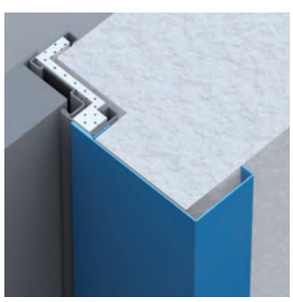
FRAME EXTENSIONS FOR PROGET DOORS

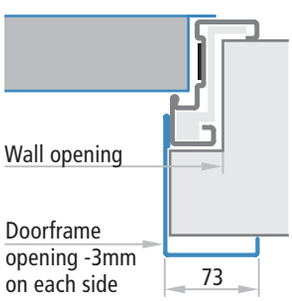
IM 1
Frame extension to be mounted in addition to the Proget frame to serve as embracing frame made of "Sendzimir" processed hot-galvanized sheet metal and painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 45 degree joint, fixing with screws and plugs in groove (screws and plugs not included).



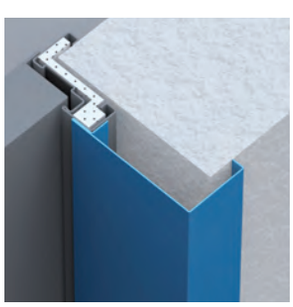


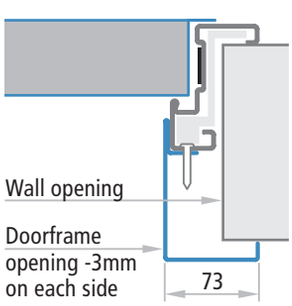
IM 3
Frame extension to be mounted in addition to the Proget frame to serve as embracing frame, especially for $EI_2$90, $EI_2$120 with installation for expansion screws fixing. Made of "Sendzimir" processed hot-galvanized sheet metal and painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 45 degree joint, fixing with screws and plugs (screws and plugs not included).



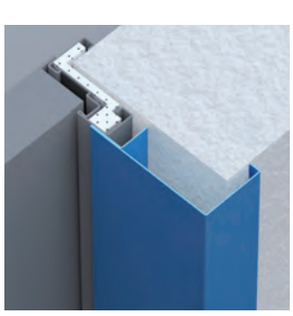


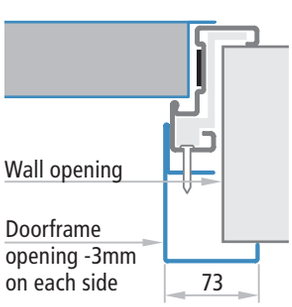
IM 4
Frame extension to be screwed to the Proget doorframe acting as a wall cladding. Made of "Sendzimir" processed hot-galvanized sheet metal painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint.
Complete with fastener screws. To mount the frame extension, pre-drilled holes are available on the frame. Combine with sealing to conceal the screw heads.





IM 5
Telescopic frame extension to be screwed to the Proget doorframe acting as a wall cladding for expansion screw fixing. Consists of two overlapping profiles with a 25mm adjustable range. Made of "Sendzimir" processed hot-galvanized sheet metal painted the same color as the doorframe with epoxy-polyester powders. Profile on three sides, upper corners with 90 degree joint.
Complete with fastener screws. To mount the frame extension, pre-drilled holes are available on the frame. Combine with sealing to conceal the screw heads.

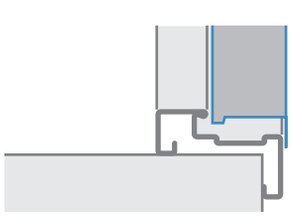




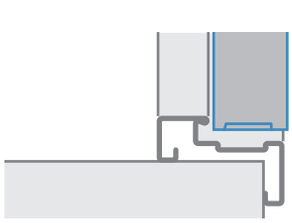
FRAME ON FOUR SIDES

Upon request one-leaved Proget doors may be supplied with frames on four sides and leaves with or without lower rebate. These type of doors are used mainly for technical rooms or shafts.
The frame on four sides is not available for the following applications: doors installed onto escape routes, two-leaved doors, doors with environmental characteristics, application on lightweight constructions, in combination with frame extensions.

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



Leaf with lower rebate



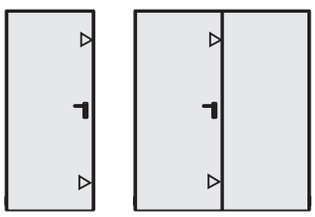
Leaf without lower rebate

Specific optional accessories

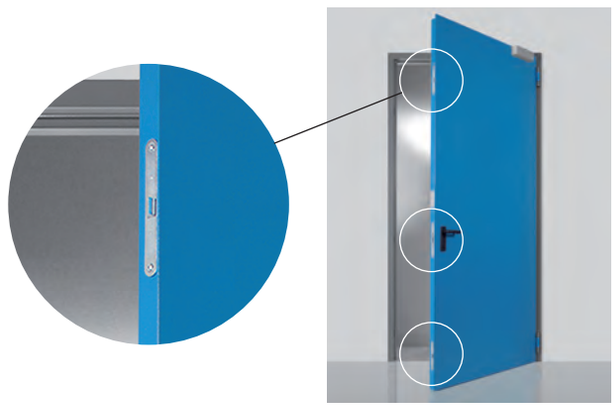
PROGET Fire doors

THREE-POINT LOCKING MECHANISM

Mandatory for one-leaved EI_2120 doors and upon request for a more reliable closure of one- and two-leaved $EI_2$60 and two-leaved $EI_2$90 doors. In combination with double M1 handle and cylinder. The lock is also available for anti-panic and emergency push versions. Thus the three-point locking mechanism can be combined with emergency handles or with EXUS, TWIST, SLASH type BM panic bars in conformity with CE marking.



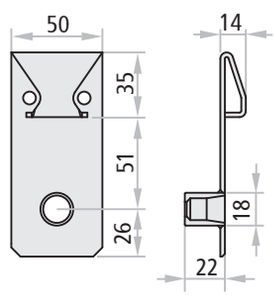
▷ Additional closure points



NOTE
Three point locking mechanism can be combined with M1, M1C, M1X, M1Xs, M11, M11X, M11Xs handles only.

STEEL FLOOR CATCH

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



Lower PROGET steel floor catch

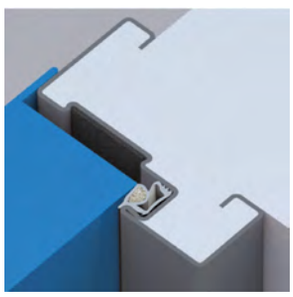
RETREATING FLOOR CATCH „N626“

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

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

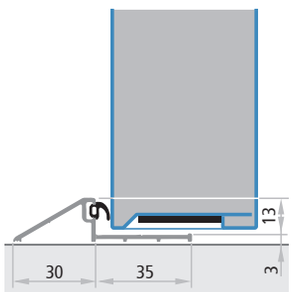
REBATE SEALING

CR sealing (for EI_2 doors) and sealing (for REI doors) in black extruded profile to cut and to be pressed into the dedicated groove in the perimetral frame and on the central joint of two-leaved doors.



THRESHOLD

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



NOTE
For the installation it is necessary to adapt the threshold to the frame of the door and to drill a hole for its fixing. Further it is necessary to finish up the threshold with silicone.

Additional performances

PROGET Fire doors

NINZ FIREDOORS

INTERNAL PEDESTRIAN DOORS

Classification report NO. IFT 16-000122-PR03
Test report NO. IFT 12-001195-PR01

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

PROGET fire doors are also classified as Sa or S200 for smoke control according to EN 1634-3 (test method) and 13501-2 (classification).
The price list lists the Combos which add these additional performances 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/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:
- standard frame to be installed with wall anchors and mortar or with screws and plugs
- embracing frame prepared for the installation onto lightweight constructions
- isolation of the frame with the filling of cement or plasterboard
- installation of rubber seals along the entire perimeter of the door frame including the central rebate for double leaved doors
- presence of the automatic door sweep depending upon selected solution.

In case of windows with dimensions larger than those tested (300x400mm), up to a maximum size of 400x600mm the differing performance value for the thermal transmittance needs to be asked, the performance value for acoustic isolation remains unchanged.
For the acoustic isolation performance values, in case of asymmetric double leaved doors (L1≠L2), select the minor Rw value of the two (example 1: leaf without windows and H=2150, L1=1000, L2=500 select 32 dB; example 2: leaf without windows and H=2150, L1=1200, L2=1000 select 35 dB).





SMOKE CONTROL ACCORDING TO EN 1634-3

This is the ability of one element 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 m³/h per metre of the gap between the door frame and the door frame excluding loss 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 m³/h for a single door or 30 m³/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

Evidence of Performance
Smoke leakageand self-closing of construction products and building elements

Classification Report
No.: 16-000122-PR03
(KB-C05-01-en-03)

ift ROSENHEIM

Client: NINZ s.p.a. Corso Trento 2/A 38061 ALA (Italy)

Prepared by the notified body: ift Rosenheim GmbH Theodor-Gietl-Straße 7-9 D-83026 Rosenheim

Notified body No.: 0757

Product name: PROGET MULTI REI / EI – 60/90/120 (nach den Angaben des Auftraggebers)

Classification: Classification of smoke control and self-closing according to EN 13501-2:2007+A1:2009 / EN 13501-2:2016

Issue No.: 1

Smoke control doors and shutters

Basis
EN 13501-2:2007+A1:2009
EN 13501-2:2016
EN 1363-1:2012
EN 1634-1:2014
EN 1634-3:2004/AC:2006
EN 1191:2012
EN 16034:2014

Instructions for use
This classification report for smoke control and durability of self-closing devices defines the classification assigned to the building element according to its product name in conformity with the methods set out in EN 13501-2. This classification document does not represent type approval or certification of the product.

Validity
The data and results given relate solely to the tested and described specimen.

Notes on publication
The ift Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies.

Contents
The classification report consists of 13 pages and may only be used or reproduced in its entirety.

1 Introduction
2 Details of classified product
3 Test reports/extended application reports and test results in support of the classification
4 Classification and field of application
5 Limitations

Classification
S_a / S_{200}
C5

ift Rosenheim
07.05.2018

ift Rosenheim Notifizierte Prüf-, Überwachungs- und Zertifizierungsstelle PÜZ 0757

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Prüfung und Kalibrierung – EN ISO/IEC 17025
Inspektion – EN ISO/IEC 17020
Zertifizierung Produkte – EN ISO/IEC 17065
Zertifizierung Managementsysteme – EN ISO/IEC 17021
Notified Body 0757
Stelle: BAY 18

INTERNAL PEDESTRIAN DOORS

Classification report NO. IFT 16-000122-PR03
Test report NO. IFT 12-001195-PR01

						Combo Thermo/GS - Combo Thermo/GSV Combo dB Sa/GS - Combo dB Sa/GSV version with rebate sealing CR and automatic door sweep Combo S200/GS - Combo S200/GSV version with rebate sealing CR and automatic door sweep and three-point locking mechanism					Combo Thermo - Combo Sa version with rebate sealing CR		
Type	FM L x H	Class	std angular frame	installation with screw or expansions screws	embracing frame	smoke control according to UNI EN 1634-3	air permeability according to UNI EN 1026:2001	thermal transmittance according to UNI EN 10077-1:2018 UNI EN 10077-2:2018	acoustic performance according to UNI EN ISO 140-3	smoke control according to UNI EN 1634-3	air permeability according to UNI EN 1026:2001	thermal transmittance according to UNI EN 10077-1:2018
without window	≤ 3,6 m²	REI 60-EI$_2$60	✓			Sa S200	classe 2	1,4 W/m²K		Sa		1,3 W/m²K
	≤ 3,6 m²	REI 60-EI$_2$60		✓		Sa S200	classe 2	1,3 W/m²K		Sa		1,3 W/m²K
	≤ 3,6 m²	REI 60-EI$_2$60			✓	Sa S200	classe 2	1,5 W/m²K		Sa		1,5 W/m²K
	≤ 3,6 m²	REI 120-EI$_2$90/120	✓			Sa S200	classe 2	1,4 W/m²K		Sa		1,4 W/m²K
	≤ 3,6 m²	REI 120-EI$_2$90/120		✓		Sa S200	classe 2	1,4 W/m²K		Sa		1,3 W/m²K
	≤ 3,6 m²	REI 120-EI$_2$90/120			✓	Sa S200	classe 2	1,5 W/m²K		Sa		1,5 W/m²K
	800 - 1100 x 2000 - 2250	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 36 dB			
	1101 - 1340 x 2000 - 2250	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 35 dB			
	800 - 1340 x 2251 - 2670	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 34 dB			
with window 300x400	≤ 3,6 m²	REI 60-EI$_2$60	✓			Sa S200	classe 2	1,9 W/m²K		Sa		1,9 W/m²K-
	≤ 3,6 m²	REI 60-EI$_2$60		✓		Sa S200	classe 2	1,9 W/m²K		Sa		1,9 W/m²K-
	≤ 3,6 m²	REI 60-EI$_2$60			✓	Sa S200	classe 2	2,1 W/m²K		Sa		2,0 W/m²K-
	≤ 3,6 m²	REI 120-EI$_2$90/120	✓			Sa S200	classe 2	1,9 W/m²K		Sa		1,9 W/m²K-
	≤ 3,6 m²	REI 120-EI$_2$90/120		✓		Sa S200	classe 2	1,8 W/m²K		Sa		1,8 W/m²K-
	≤ 3,6 m²	REI 120-EI$_2$90/120			✓	Sa S200	classe 2	2,0 W/m²K		Sa		2,0 W/m²K-
	800 - 1100 x 2000 - 2250	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 36 dB			
	1101 - 1340 x 2000 - 2250	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 35 dB			
	800 - 1340 x 2251 - 2670	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 34 dB			
without window	≤ 3,6 m²	REI 60-EI$_2$60	✓			Sa S200	classe 3	1,8 W/m²K		Sa		1,8 W/m²K
	> 3,6 m²	REI 60-EI$_2$60	✓			Sa S200	classe 3	1,5 W/m²K		Sa		1,4 W/m²K
	≤ 3,6 m²	REI 60-EI$_2$60		✓		Sa S200	classe 3	1,8 W/m²K		Sa		1,7 W/m²K
	> 3,6 m²	REI 60-EI$_2$60		✓		Sa S200	classe 3	1,4 W/m²K		Sa		1,4 W/m²K
	≤ 3,6 m²	REI 60-EI$_2$60			✓	Sa S200	classe 3	1,9 W/m²K		Sa		1,9 W/m²K
	> 3,6 m²	REI 60-EI$_2$60			✓	Sa S200	classe 3	1,6 W/m²K		Sa		1,5 W/m²K
	≤ 3,6 m²	REI 120-EI$_2$90/120	✓			Sa S200	classe 3	1,8 W/m²K		Sa		1,8 W/m²K
	> 3,6 m²	REI 120-EI$_2$90/120	✓			Sa S200	classe 3	1,5 W/m²K		Sa		1,5 W/m²K
	≤ 3,6 m²	REI 120-EI$_2$90/120		✓		Sa S200	classe 3	1,8 W/m²K		Sa		1,8 W/m²K
	> 3,6 m²	REI 120-EI$_2$90/120		✓		Sa S200	classe 3	1,5 W/m²K		Sa		1,4 W/m²K
	≤ 3,6 m²	REI 120-EI$_2$90/120			✓	Sa S200	classe 3	2,0 W/m²K		Sa		1,9 W/m²K
	> 3,6 m²	REI 120-EI$_2$90/120			✓	Sa S200	classe 3	1,6 W/m²K		Sa		1,6 W/m²K
	FM min 1000 (L1/L2 max 799) x 2000 - 2670	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 32 dB			
	(L1 o L2) 800 - 1100 x 2000 - 2250	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 36 dB			
	(L1 o L2)1101 - 1330 x 2000 - 2250	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 35 dB			
	(L1 o L2) 800 - 1330 x 2251 - 2670	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 34 dB			
with window 300x400	≤ 3,6 m²	REI 60-EI$_2$60	✓			Sa S200	classe 3	2,3 W/m²K		Sa		2,3 W/m²K
	> 3,6 m²	REI 60-EI$_2$60	✓			Sa S200	classe 3	2,1 W/m²K		Sa		2,1 W/m²K
	≤ 3,6 m²	REI 60-EI$_2$60		✓		Sa S200	classe 3	2,3 W/m²K		Sa		2,3 W/m²K
	> 3,6 m²	REI 60-EI$_2$60		✓		Sa S200	classe 3	2,1 W/m²K		Sa		2,0 W/m²K
	≤ 3,6 m²	REI 60-EI$_2$60			✓	Sa S200	classe 3	2,5 W/m²K		Sa		2,4 W/m²K
	> 3,6 m²	REI 60-EI$_2$60			✓	Sa S200	classe 3	2,2 W/m²K		Sa		2,2 W/m²K
	≤ 3,6 m²	REI 120-EI$_2$90/120	✓			Sa S200	classe 3	2,3 W/m²K		Sa		2,3 W/m²K
	> 3,6 m²	REI 120-EI$_2$90/120	✓			Sa S200	classe 3	2,1 W/m²K		Sa		2,0 W/m²K
	≤ 3,6 m²	REI 120-EI$_2$90/120		✓		Sa S200	classe 3	2,3 W/m²K		Sa		2,2 W/m²K
	> 3,6 m²	REI 120-EI$_2$90/120		✓		Sa S200	classe 3	2,0 W/m²K		Sa		2,0 W/m²K
	≤ 3,6 m²	REI 120-EI$_2$90/120			✓	Sa S200	classe 3	2,4 W/m²K		Sa		2,4 W/m²K
	> 3,6 m²	REI 120-EI$_2$90/120			✓	Sa S200	classe 3	2,2 W/m²K		Sa		2,1 W/m²K
	FM min 1000 (L1/L2 max 799) x 2000 - 2670	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 32 dB			
	(L1 o L2) 800 - 1100 x 2000 - 2250	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 36 dB			
	(L1 o L2)1101 - 1330 x 2000 - 2250	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 35 dB			
	(L1 o L2)1101 - 1330 x 2000 - 2250	REI 120-EI$_2$90/120	✓	✓	✓				Rw = 34 dB			

Additional performances

PROGET Fire doors

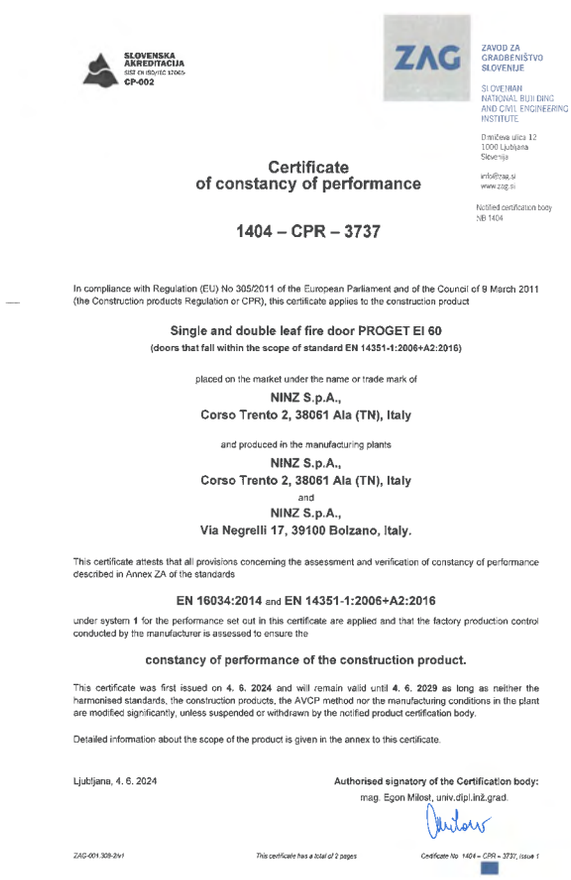
NINZ FIREDOORS

EXTERNAL PEDESTRIAN DOORS

Certificate CE 1404 - CPR -3737
EN 16034:2014 - 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 - 3737.

Proget fire doors for external use must be ordered with the specific CE Combo Est options available in the Proget fire door 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.



SLOVENSKA AKREDITACIJA
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 – 3737

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 fire door PROGET EI 60
(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 plants
NINZ S.p.A.,
Corso Trento 2, 38061 Ala (TN), Italy
and
NINZ S.p.A.,
Via Negrelli 17, 39100 Bolzano, 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-001.309-2/v1 | *This certificate has a total of 2 pages* | *Certificate No 1404 – CPR – 3737, issue 1*

ATTENTION

For dimensional limits, minimum edge requirements and production options, please refer to the specific pages of this catalogue. The thermal transmittance values (W/m^2K) 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 m^2 and to samples measuring 2.00 x 2.18 m for areas > 3.6 m^2. All performance values listed in the table are valid only if the door is installed with the following accessories and measures:

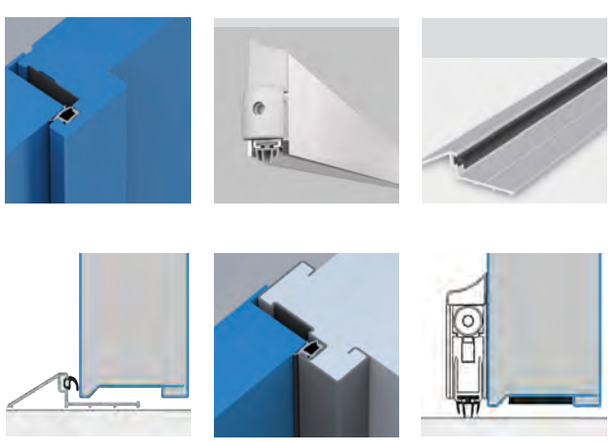
- presence of a bottom rebate threshold
- in case of installation along an escape route, the floor on the push side must be raised to fully level the gap between the floor and the bottom threshold
- frame insulation by filling with polyurethane foam or cement-based mortar
- application of sealing gaskets 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

I

n case of windows up to a maximum size of max 400x600mm the differing performance value for the thermal transmittance needs to be asked, all other performance values remain unchanged.
For the acoustic isolation performance values, in case of asymmetric double leaved doors (L1≠L2), select the minor Rw value of the two.
example 1: leaf without windows and H=2150, L1=1000, L2= 500 select 30 dB;
example 2: leaf without windows and H=2150, L1=1200, L2=1000 select 32 dB.

NOTES

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



Additional performances

PROGET Fire doors

NINZ FIREDOORS

PROGET Fire Door EI_2 60 Certificate CE: **1404 - CPR -3737**		Angularr frame	Embracing frame.	Tunnel frame	Combo with CR rebate gasket and door closer for C5 version		Combo with CR rebate gasket, drop-down seal and door closer for C5 version	
					CE	CE C5	CE Sa/SF	CE Sa/SF C5
Without windows	**EN 16034:2014**							
	Fire resistance	✓	✓	✓	EI_2 60	EI_2 60	EI_2 60	EI_2 60
	Smoke control	✓	✓	✓	N.P.D.	N.P.D.	Sa	Sa
	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	✓	✓	✓	N.P.D.	N.P.D.	2	2
	Water tightness	✓	✓	✓	N.P.D.	N.P.D.	1A	1A
	Wind load resistance							
	- door with FM ≤ 1140x2150	✓	✓	✓	N.P.D.	N.P.D.	C1	C1
	- door with FM > 1140x2150	✓	✓	✓	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	✓			1,30 W/m²K	1,30 W/m²K	1,40 W/m²K	1,40 W/m²K
	Thermal transmittance		✓		1,50 W/m²K	1,50 W/m²K	1,50 W/m²K	1,50 W/m²K
	Thermal transmittance			✓	1,50 W/m²K	1,50 W/m²K	1,50 W/m²K	1,50 W/m²K
	Ability to release / open	✓	✓	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
With windows 300x400	**EN 16034:2014**							
	Fire resistance	✓	✓	✓	EI_2 60	EI_2 60	EI_2 60	EI_2 60
	Smoke control	✓	✓	✓	N.P.D.	N.P.D.	Sa	Sa
	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	✓	✓	✓	N.P.D.	N.P.D.	2	2
	Water tightness	✓	✓	✓	N.P.D.	N.P.D.	1A	1A
	Wind load resistance							
	- door with FM ≤ 1140x2150	✓	✓	✓	N.P.D.	N.P.D.	C1	C1
	- door with FM > 1140x2150	✓	✓	✓	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	1,90 W/m²K	1,90 W/m²K
	Thermal transmittance		✓		2,00 W/m²K	2,00 W/m²K	2,10 W/m²K	2,10 W/m²K
	Thermal transmittance			✓	2,00 W/m²K	2,00 W/m²K	2,10 W/m²K	2,10 W/m²K
	Ability to release / open	✓	✓	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.

Additional performances

PROGET Fire doors

NINZ FIREDOORS

PROGET Fire Door EI_2 60 Certificate CE: **1404 - CPR -3737**		Angular Frame	Embracing frame.	Tunnel frame	Combo with CR rebate gasket, drop-down seal and door closer for C5 version	
					CE	CE C5
Without windows	**EN 16034:2014**					
	Fire resistance	✓	✓	✓	EI_2 60	EI_2 60
	Smoke control	✓	✓	✓	S200	S200
	Ability to release / lock	✓	✓	✓	N.P.D.	N.P.D.
	Self-closing	✓	✓	✓	C	C
	Durability of release mechanism	✓	✓	✓	N.P.D.	N.P.D.
	Durability of self-closing					
	- against degradation	✓	✓	✓	0	5
	- against corrosion	✓	✓	✓	N.P.D.	N.P.D.
	EN 14351-1:2006+A2:2016					
	Air permeability	✓	✓	✓	2	2
	Water tightness	✓	✓	✓	N.P.D.	N.P.D.
	Wind load resistance	✓	✓	✓	N.P.D.	N.P.D.
	Impact resistance	✓	✓	✓	N.P.D.	N.P.D.
	Load-bearing capacity of safety devices	✓	✓	✓	Passa	Passa
	Acoustic performance	✓	✓	✓	N.P.D.	N.P.D.
	Thermal transmittance	✓			1,40 W/m²K	1,40 W/m²K
	Thermal transmittance		✓		1,50 W/m²K	1,50 W/m²K
	Thermal transmittance			✓	1,50 W/m²K	1,50 W/m²K
	Ability to release / open	✓	✓	✓	N.P.D.	N.P.D.
With windows 300x400	**EN 16034:2014**					
	Fire resistance	✓	✓	✓	EI_2 60	EI_2 60
	Smoke control	✓	✓	✓	S200	S200
	Ability to release / lock	✓	✓	✓	N.P.D.	N.P.D.
	Self-closing	✓	✓	✓	C	C
	Durability of release mechanism	✓	✓	✓	N.P.D.	N.P.D.
	Durability of self-closing					
	- against degradation	✓	✓	✓	0	5
	- against corrosion	✓	✓	✓	N.P.D.	N.P.D.
	EN 14351-1:2006+A2:2016					
	Air permeability	✓	✓	✓	2	2
	Water tightness	✓	✓	✓	N.P.D.	N.P.D.
	Wind load resistance	✓	✓	✓	N.P.D.	N.P.D.
	Impact resistance	✓	✓	✓	N.P.D.	N.P.D.
	Load-bearing capacity of safety devices	✓	✓	✓	Passa	Passa
	Acoustic performance	✓	✓	✓	N.P.D.	N.P.D.
	Thermal transmittance	✓			1,90 W/m²K	1,90 W/m²K
	Thermal transmittance		✓		2,10 W/m²K	2,10 W/m²K
	Thermal transmittance			✓	2,10 W/m²K	2,10 W/m²K
	Ability to release / open	✓	✓	✓	N.P.D.	N.P.D.

Additional performances

PROGET Fire doors

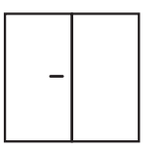
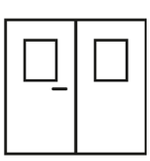
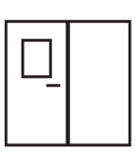
NINZ FIREDOORS

PROGET Fire Door EI_2 60 Certificate CE: **1404 - CPR -3737**		ANgular Frame	Embracing frame.	Tunnel frame	Combo with CR rebate gasket and door closer for C5 version		Combo with CR rebate gasket, drop-down seal and door closer for C5 version	
					CE	CE C5	CE Sa/SF	CE Sa/SF C5
Without windows	**EN 16034:2014**							
	Fire resistance	✓	✓	✓	EI_2 60	EI_2 60	EI_2 60	EI_2 60
	Smoke control	✓	✓	✓	N.P.D.	N.P.D.	S200	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 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	✓	✓	✓	N.P.D.	N.P.D.	3	3
	Water tightness	✓	✓	✓	N.P.D.	N.P.D.	2A - 4B	2A - 4B
	Wind load resistance	✓	✓	✓				
	- door with FM ≤ 2300x2150	✓	✓	✓	N.P.D.	N.P.D.	C1	C1
	- door with FM > 2300x2150	✓	✓	✓	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	✓			1,80 W/m²K	1,80 W/m²K	1,80 W/m²K	1,80 W/m²K
	Thermal transmittance FM > 3,6 m²	✓			1,40 W/m²K	1,40 W/m²K	1,50 W/m²K	1,50 W/m²K
	Thermal transmittance FM ≤ 3,6 m²		✓		1,90 W/m²K	1,90 W/m²K	1,90 W/m²K	1,90 W/m²K
	Thermal transmittance FM > 3,6 m²		✓		1,50 W/m²K	1,50 W/m²K	1,60 W/m²K	1,60 W/m²K
	Thermal transmittance FM ≤ 3,6 m²			✓	1,90 W/m²K	1,90 W/m²K	1,90 W/m²K	1,90 W/m²K
	Thermal transmittance FM > 3,6 m²			✓	1,50 W/m²K	1,50 W/m²K	1,60 W/m²K	1,60 W/m²K
With windows 300x400	**EN 16034:2014**							
	Fire resistance	✓	✓	✓	EI_2 60	EI_2 60	EI_2 60	EI_2 60
	Smoke control	✓	✓	✓	N.P.D.	N.P.D.	Sa	Sa
	Ability to release / lock	✓	✓	✓	N.P.D.	N.P.D.	N.P.D.	N.P.D.
	Self-closing	✓	✓	✓	C	C	C	C
	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	✓	✓	✓	N.P.D.	N.P.D.	3	3
	Water tightness	✓	✓	✓	N.P.D.	N.P.D.	2A - 4B	2A - 4B
	Wind load resistance	✓	✓	✓				
	- door with FM ≤ 2300x2150	✓	✓	✓	N.P.D.	N.P.D.	C1	C1
	- door with FM > 2300x2150	✓	✓	✓	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	✓			2,30 W/m²K	2,30 W/m²K	2,30 W/m²K	2,30 W/m²K
	Thermal transmittance FM > 3,6 m²	✓			2,10 W/m²K	2,10 W/m²K	2,10 W/m²K	2,10 W/m²K
	Thermal transmittance FM ≤ 3,6 m²		✓		2,40 W/m²K	2,40 W/m²K	2,50 W/m²K	2,50 W/m²K
	Thermal transmittance FM > 3,6 m²		✓		2,20 W/m²K	2,20 W/m²K	2,20 W/m²K	2,20 W/m²K
	Thermal transmittance FM ≤ 3,6 m²			✓	2,40 W/m²K	2,40 W/m²K	2,50 W/m²K	2,50 W/m²K
	Thermal transmittance FM > 3,6 m²			✓	2,20 W/m²K	2,20 W/m²K	2,20 W/m²K	2,20 W/m²K

Additional performances

PROGET Fire doors

NINZ FIREDOORS

PROGET Fire Door EI$_2$ 60 Certificate CE: 1404 - CPR -3737		Angular frame	Embracing frame.	Tunnel frame	Combo with CR rebate gasket, drop-down seal and door closer for C5 version	
					CE	CE C5
Without window 	**EN 16034:2014**					
	Fire resistance	✓	✓	✓	EI$_2$ 60	EI$_2$ 60
	Smoke control	✓	✓	✓	S200	S200
	Ability to release / lock	✓	✓	✓	N.P.D.	N.P.D.
	Self-closing	✓	✓	✓	C	C
	Durability of self-closing				N.P.D.	N.P.D.
	- against degradation	✓	✓	✓	0	5
	- against corrosion	✓	✓	✓	N.P.D.	N.P.D.
	EN 14351-1:2006+A2:2016					
	Air permeability	✓	✓	✓	3	3
	Water tightness	✓	✓	✓	N.P.D.	N.P.D.
	Wind load resistance	✓	✓	✓	N.P.D.	N.P.D.
	Load-bearing capacity of safety devices	✓	✓	✓	Exceeds	Exceeds
	Acoustic performance	✓	✓	✓	N.P.D.	N.P.D.
	Thermal transmittance FM ≤ 3,6 m²	✓			1,80 W/m²K	1,80 W/m²K
	Thermal transmittance FM > 3,6 m²	✓			1,50 W/m²K	1,50 W/m²K
	Thermal transmittance FM ≤ 3,6 m²		✓		1,90 W/m²K	1,90 W/m²K
	Thermal transmittance FM > 3,6 m²		✓		1,60 W/m²K	1,60 W/m²K
	Thermal transmittance FM ≤ 3,6 m²			✓	1,90 W/m²K	1,90 W/m²K
	Thermal transmittance FM > 3,6 m²			✓	1,60 W/m²K	1,60 W/m²K
With window 300x400  	**EN 16034:2014**					
	Fire resistance	✓	✓	✓	EI$_2$ 60	EI$_2$ 60
	Smoke control	✓	✓	✓	S200	S200
	Ability to release / lock	✓	✓	✓	N.P.D.	N.P.D.
	Self-closing	✓	✓	✓	C	C
	Durability of self-closing					
	- against degradation	✓	✓	✓	0	5
	- against corrosion	✓	✓	✓	N.P.D.	N.P.D.
	EN 14351-1:2006+A2:2016					
	Air permeability	✓	✓	✓	3	3
	Water tightness	✓	✓	✓	N.P.D.	N.P.D.
	Wind load resistance	✓	✓	✓	N.P.D.	N.P.D.
	Load-bearing capacity of safety devices	✓	✓	✓	Exceeds	Exceeds
	Acoustic performance	✓	✓	✓	N.P.D.	N.P.D.
	Thermal transmittance FM ≤ 3,6 m²	✓			2,30 W/m²K	2,30 W/m²K
	Thermal transmittance FM > 3,6 m²	✓			2,10 W/m²K	2,10 W/m²K
	Thermal transmittance FM ≤ 3,6 m²		✓		2,50 W/m²K	2,50 W/m²K
	Thermal transmittance FM > 3,6 m²		✓		2,20 W/m²K	2,20 W/m²K
	Thermal transmittance FM ≤ 3,6 m²			✓	2,50 W/m²K	2,50 W/m²K
	Thermal transmittance FM > 3,6 m²			✓	2,20 W/m²K	2,20 W/m²K

Additional performances

PROGET Fire doors

NINZ FIREDOORS

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

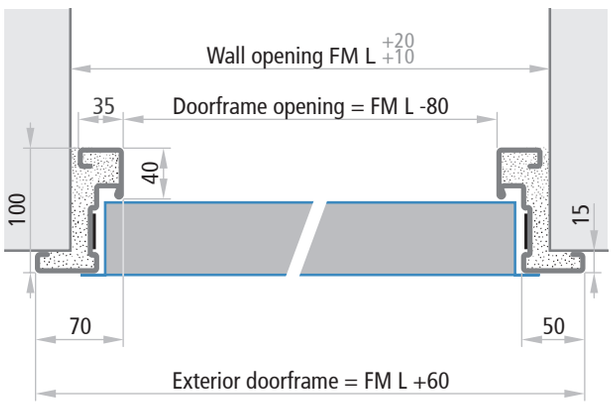
* Required under binding national provisions

WARNING
For doors exposed to weather conditions and/or direct sunlight, the customer must take appropriate precautions to prevent long-term deterioration, in particular:
- Canopies or overhangs
- Outdoor paint with UV protection
- Use of light RAL colours to avoid overheating of metal sheets

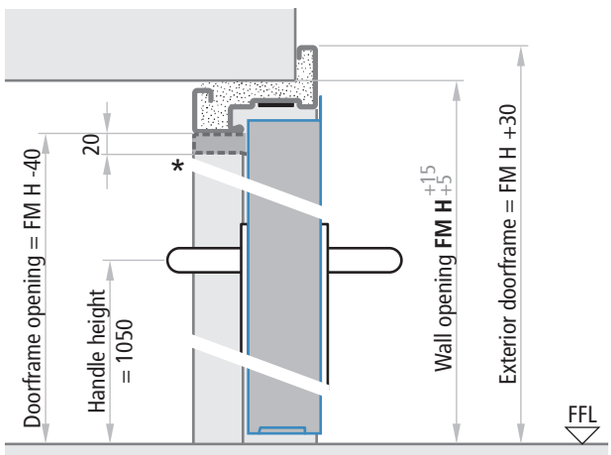
Door cross sections - Measurements

PROGET Fire doors

One-leaved doors - Horizontal cross section

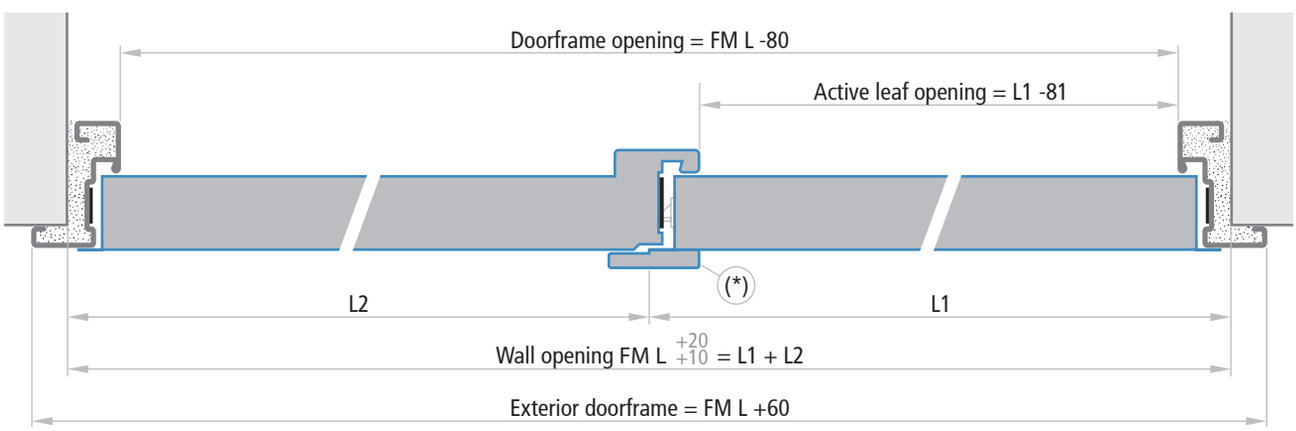


Doors without lower threshold - Vertical cross section

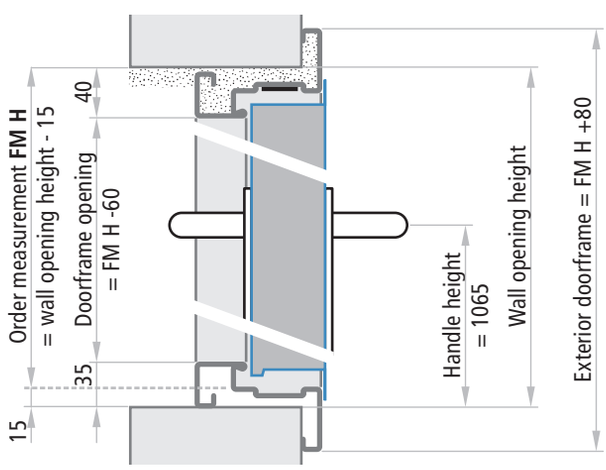


* RC/STD position in case of additional performances

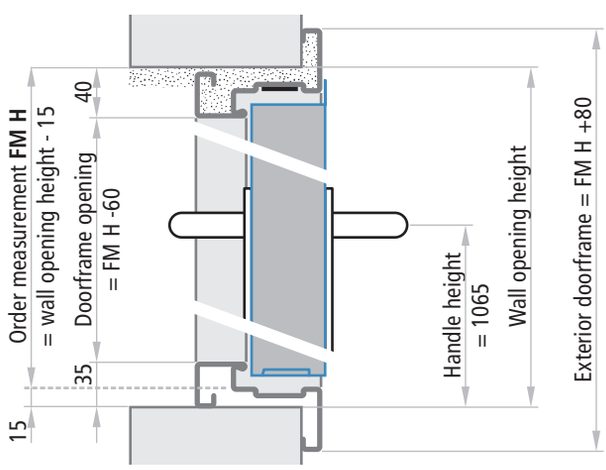
Two-leaved doors - Horizontal cross section



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



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



Leaves thickness

Fire doors	60 mm

NOTE

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

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

(*) Proget $EI_2$90 two leaved doors feature an additional isolated central rebate profile, which is applied onto the active leaf.

Standard installation method

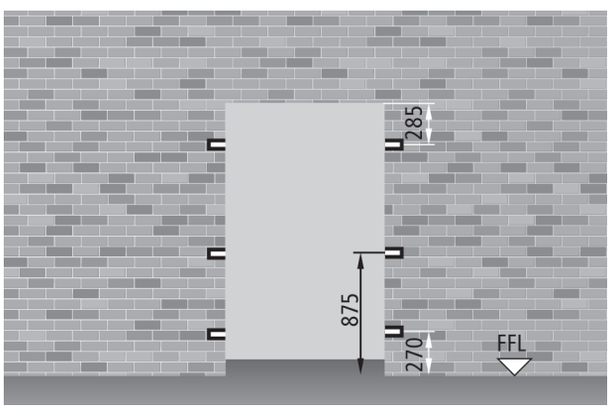
PROGET Fire doors

INSTALLATION WITH ANCHORS FOR MORTAR FIXING

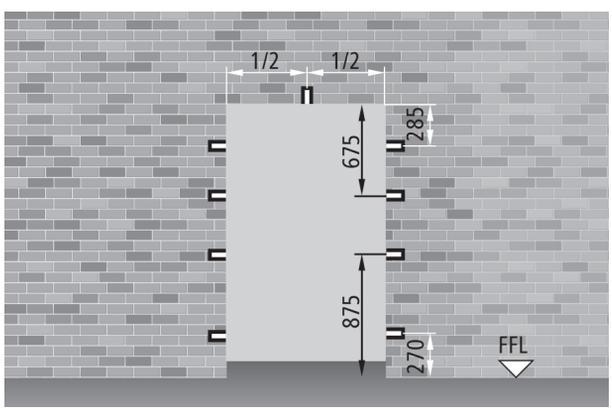
The standard installation method for Proget doors is to use the anchors for mortar fixing. Appropriate cuts will need to be created in the walls (section 80 x 200 mm). The anchors should be bent and blocked inside the wall. For fire sealing purposes and a perfect mechanical fit, the space between the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

One-leaved doors

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

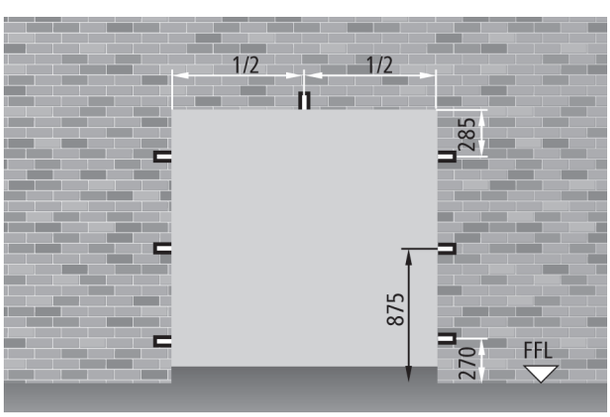


FM L greater than 1035 and/or FM H greater than 2200

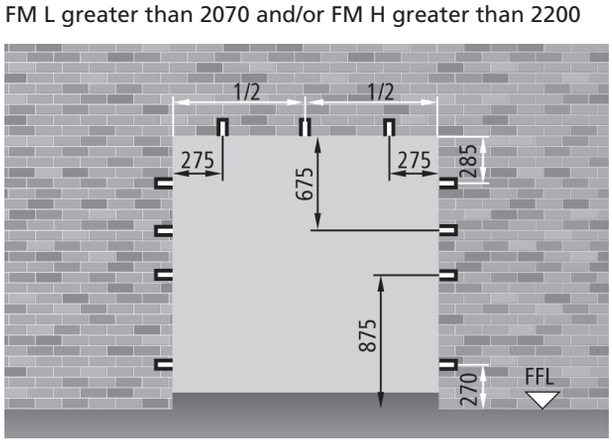


Two-leaved doors

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



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



NOTE

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

Optional installation methods

PROGET Fire doors

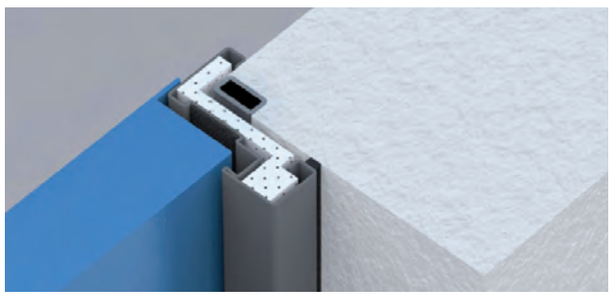
DRY WALL INSTALLATION ONTO THE SUBFRAME WITH SCREWS

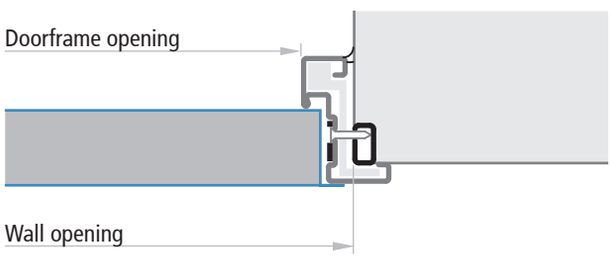
Installation method certified for one- or two-leaved REI 60 and REI 120 doors, in conformity with UNI 9723 standard, for screw fixing onto metal subframes in the walls.

Subframes need to be ordered separately from the door. Make sure measurements correspond to the door's FM L x FM H measurements.
For the technical characteristics of the subframe, see the specific page of the section "accessories doors".

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

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

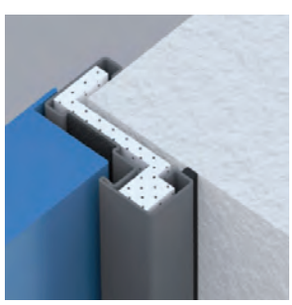




INSTALLATION FOR EXPANSION SCREWS FIXING

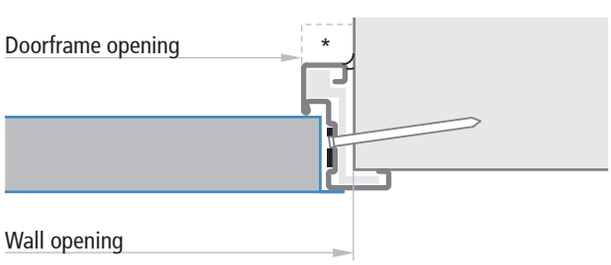
Installation method certified for: one- or two-leaved $EI_2$60, REI 60, REI 120, $EI_2$90 two-leaved and $EI_2$120 one-leaved doors, for expansion screws. Designed for installations onto blockwork, masonry or homogenous concrete wall, with density of (1200±400)kg/m³ and a thickness of (200±50)mm.

The supplied doorframe comes factory heat-insulated with special materials and includes corner joints and a lower spacer (except for one-leaved doors with frame on four sides) to be added on site.
This method allows for "dry wall" installation of the doors without requiring any additional masonry work. Installation of the door, therefore, becomes a simple mechanical operation plus the final adjustments.



$EI_2$60, REI 60 and REI 120 doors

$EI_2$90, $EI_2$120 doors



NOTE
Please specify clearly whether the door is for subframe installation or for direct wall installation with expansion screws.
* concealing with concrete mandatory for $EI_2$90 and $EI_2$120 fire-rated doors.

WALL SCREWS

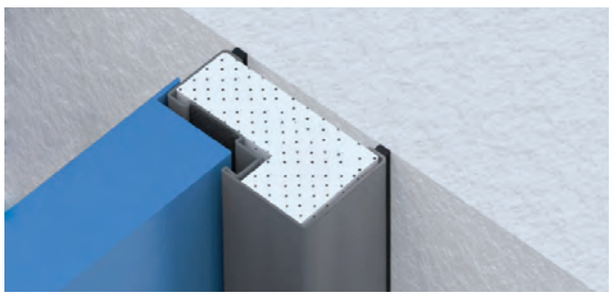
For direct wall installations or installation onto subframes, special expansion screws should be used without plugs. Please see the "door accessories" pages for more details.

Optional installation methods

PROGET Fire doors

BLOCK FRAME FOR IN THE REVEAL APPLICATION

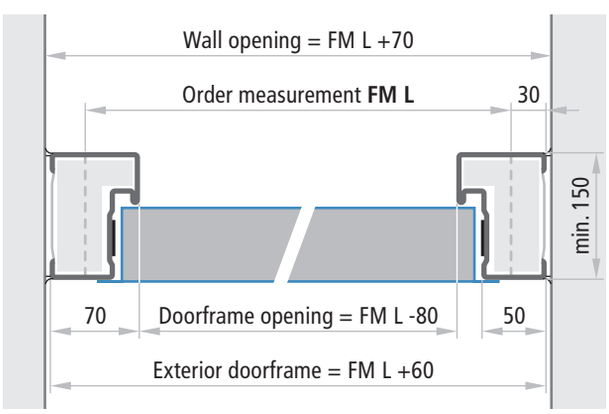
Installation method certified for one- and two-leaved $EI_2$60, one-leaved $EI_2$120 or two-leaved $EI_2$90 doors.
The supplied frame comes factory heat-insulated with special materials and includes corner joints and pre-drilled screw holes on the rebate. Installation for expansion screws (not supplied).
This method allows for "dry wall" installation of the doors without requiring any additional masonry work. Installation of the door, therefore, becomes a simple mechanical operation plus the final adjustments.



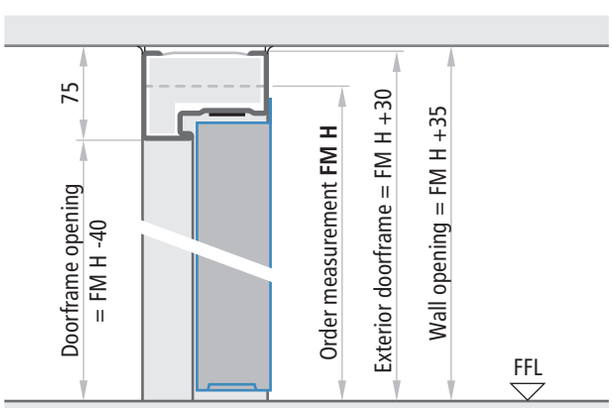
ATTENTION
Acoustic performance values are not valid in case of block frame for in the reveal application.

DOOR CROSS SECTIONS - MEASUREMENTS

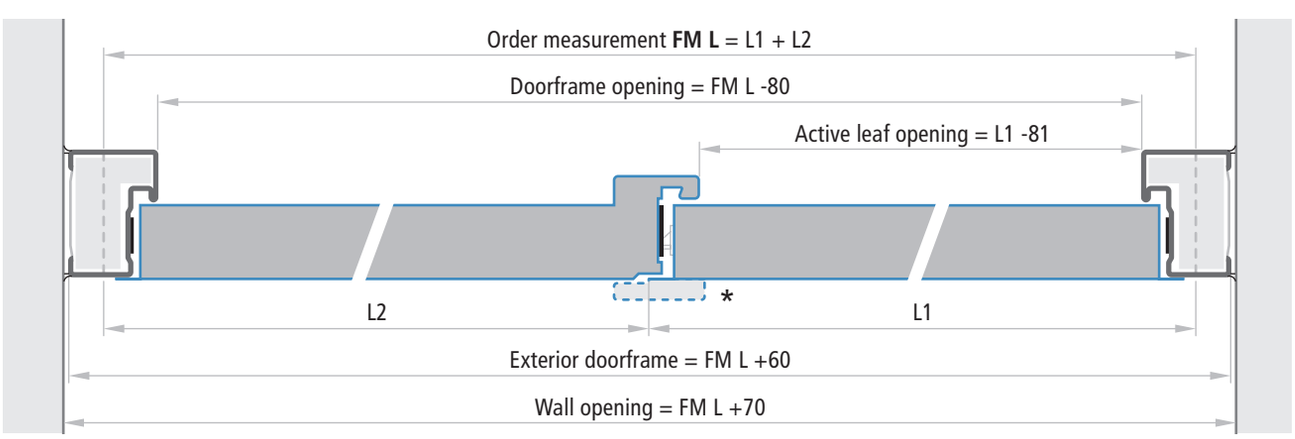
One-leaved doors
Horizontal cross section



Doors without lower threshold
Vertical cross section



Two-leaved doors
Horizontal cross section



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

(*) Proget $EI_2$90 two leaved doors feature an additional isolated central rebate profile, which is applied onto the active leaf.

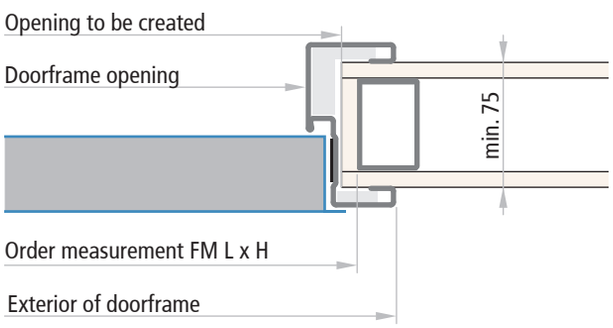
Lightweight construction installation

PROGET Fire doors

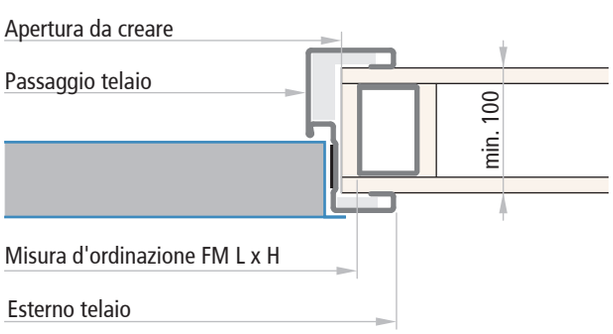
LIGHTWEIGHT CONSTRUCTION INSTALLATION WITH EMBRACING FRAME

Installation method onto lightweight constructions certified for one- or two-leaved doors.
The supplied frame comes factory heat-insulated with special materials and includes corner joints and pre-drilled screw holes with cover caps.

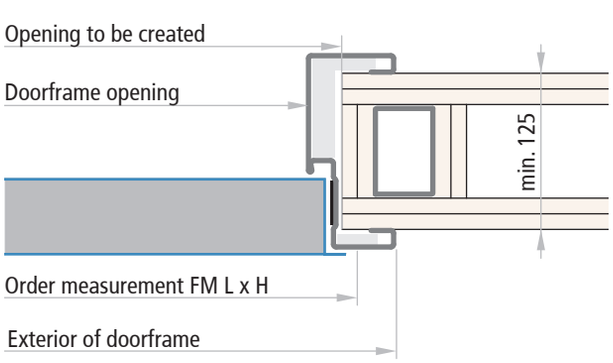
Door cross section and lightweight construction version: $EI_2$60



Door cross section and plasterboard version: REI 60



Door cross section and plasterboard version: REI 120 $EI_2$60 - $EI_2$120



Lightweight constructions $EI_2$60

$EI_2$60 fire-rated doorsets can be installed onto every wall or partition which is of the board covered type with studs made from metal or timber with a fire resistance equal to or greater than the EI60 supporting construction.

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

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

Plasterboard walls REI 60

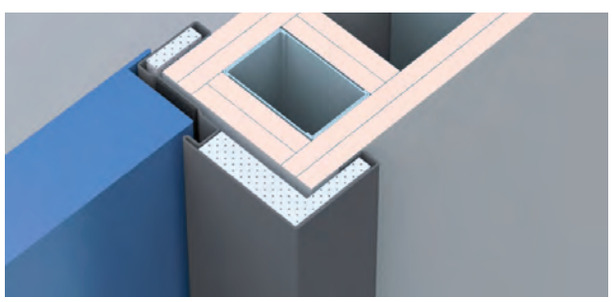
Made using galvanized steel frames with "U"-shaped 75x40mm min. guide profiles, "C"-shaped 75x47mm min. vertical profiles (doubled next to the doorframe), with a single layer of 12,5mm min. thick fire rated plasterboard used as finishing on both sides and on the profiles around the doorframe.

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

Plasterboard walls $EI_2$90, $EI_2$120 and REI 120

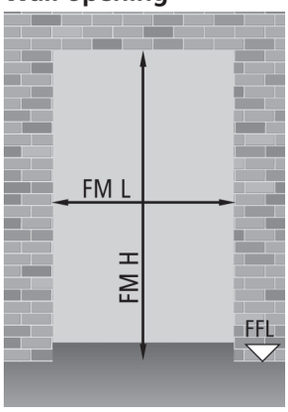
Made using galvanized steel framing with "U"-shaped 75x40mm min. guide profiles, "C"-shaped 75x47mm min. vertical profiles (doubled next to the doorframe), with a double layer of 12,5mm min. thick fire rated plasterboard used as finishing on both sides and on the profiles around the doorframe.

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

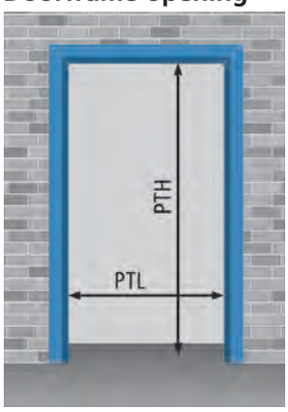


ORDER MEASUREMENTS

Wall opening

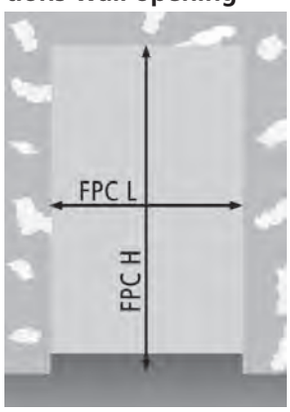


Doorframe opening



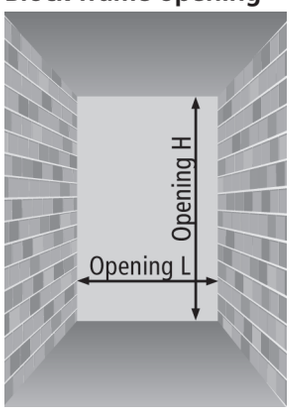
PTL = FM L - 80
PTH = FM H - 40

Lightweight construc-tions wall opening



FPC L = FM L - 25
FPC H = FM H - 12

Block frame opening



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

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

One-leaved doors

FM L x FM H	PT L x PT H (doorframe opening)		fire-rating
standard dimensions	frame on 3 sides	frame on 4 sides	class
800 x 2000 / 2050 / 2100 / 2150 / 2200	720 x 1960 / 2010 / 2060 / 2110 / 2160	720 x 1940 / 1990 / 2040 / 2090 / 2140	$EI_2$60, $EI_2$120, REI 60, REI 120
900 x 2000 / 2050 / 2100 / 2150 / 2200	820 x 1960 / 2010 / 2060 / 2110 / 2160	820 x 1940 / 1990 / 2040 / 2090 / 2140	$EI_2$60, $EI_2$120, REI 60, REI 120
1000 x 2000 / 2050 / 2100 / 2150 / 2200	920 x 1960 / 2010 / 2060 / 2110 / 2160	920 x 1940 / 1990 / 2040 / 2090 / 2140	$EI_2$60, $EI_2$120, REI 60, REI 120
1100 x 2050 / 2100 / 2150 / 2200	1020 x 2010 / 2060 / 2110 / 2160	1020 x 1990 / 2040 / 2090 / 2140	$EI_2$60, $EI_2$120, REI 60, REI 120
1200 x 2050 / 2100 / 2150 / 2200	1120 x 2010 / 2060 / 2110 / 2160	1120 x 1990 / 2040 / 2090 / 2140	$EI_2$60, $EI_2$120, REI 60, REI 120
1300 x 2000 / 2050 / 2100 / 2150 / 2200	1220 x 1960 / 2010 / 2060 / 2110 / 2160	1220 x 1940 / 1990 / 2040 / 2090 / 2140	$EI_2$60, $EI_2$120, REI 60, REI 120
1340 x 2050 / 2100 / 2150 / 2200	1260 x 2010 / 2060 / 2110 / 2160	1260 x 1990 / 2040 / 2090 / 2140	$EI_2$60, $EI_2$120, REI 60, REI 120
non-standard dimensions			
from 670 to 1340 x from 1950 to 2600	from 590 to 1260 x from 1910 to 2560	from 590 to 1260 x from 1890 to 2540	$EI_2$60
from 710 to 1340 x from 1900 to 2640	from 630 to 1260 x from 1860 to 2600	from 630 to 1260 x from 1840 to 2580	$EI_2$120
from 546 to 1340 x from 1775 to 2670	from 466 to 1260 x from 1735 to 2630	from 466 to 1260 x from 1715 to 2610	REI 60, REI 120 anchor fixing
from 546 to 1170 x from 1775 to 2275	from 520 to 1090 x from 1735 to 2235	from 520 to 1090 x from 1715 to 2215	REI 60, REI 120 embracing frame
from 1004 to 1340 x from 2050 to 2500	from 924 to 1260 x from 2010 to 2460	from 924 to 1260 x from 1990 to 2440	REI 60, REI 120 embracing frame
from 546 to 1170 x from 1775 to 2275	from 520 to 1090 x from 1735 to 2235	from 520 to 1090 x from 1715 to 2215	REI 60, REI 120 subframe or expansion screw
from 1004 to 1340 x from 2050 to 2500	from 924 to 1260 x from 2010 to 2460	from 924 to 1260 x from 1990 to 2440	REI 60, REI 120 subframe or expansion screw

Order measurements - Handle height

PROGET Fire doors

NINZ FIREDOORS

Two-leaved doors FM L x FM H				PT L x PT H				fire-rating
standard dimensions				doorframe opening				class
1150	(800 + 350)	x	2000 / 2050 / 2100 / 2150 / 2200	1070	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, REI 60, REI 120**
1200	(800 + 400)	x	2000 / 2050 / 2100 / 2150 / 2200	1120	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, REI 60, REI 120**
1250	(800 + 450)	x	2000 / 2050 / 2100 / 2150 / 2200	1170	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, REI 60, REI 120**
1250	(900 + 350)	x	2000 / 2050 / 2100 / 2150 / 2200	1170	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, REI 60, REI 120**
1300	(900 + 400)	x	2000 / 2050 / 2100 / 2150 / 2200	1220	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, REI 60, REI 120**
1350	(900 + 450)	x	2000 / 2050 / 2100 / 2150 / 2200	1270	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, REI 60, REI 120**
1350	(1000 + 350)	x	2000 / 2050 / 2100 / 2150 / 2200	1270	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, REI 60, REI 120**
1400	(1000 + 400)	x	2000 / 2050 / 2100 / 2150 / 2200	1320	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, REI 60, REI 120**
1450	(1000 + 450)	x	2000 / 2050 / 2100 / 2150 / 2200	1370	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, REI 60, REI 120**
1600	(800 + 800)	x	2000 / 2050 / 2100 / 2150 / 2200	1520	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, $EI_2$90, REI 60, REI 120**
1700	(900 + 800)	x	2000 / 2050 / 2100 / 2150 / 2200	1620	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, $EI_2$90, REI 60, REI 120**
1800	(900 + 900)	x	2000 / 2050 / 2100 / 2150 / 2200	1720	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, $EI_2$90, REI 60, REI 120**
1800	(1000 + 800)	x	2000 / 2050 / 2100 / 2150 / 2200	1720	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, $EI_2$90, REI 60, REI 120**
1900	(1000 + 900)	x	2000 / 2050 / 2100 / 2150 / 2200	1820	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, $EI_2$90, REI 60, REI 120**
2000	(1000 + 1000)	x	2000 / 2050 / 2100 / 2150 / 2200	1920	x	1960 / 2010 / 2060 / 2110 / 2160		**$EI_2$60, $EI_2$90, REI 60, REI 120**
non-standard dimensions								
from 890	(540 + 350) to 2540	(1270 + 1270)	x from 1775 to 2600	from 810 to 2460	x	from 1735 to 2560		**$EI_2$60**
from 1175	(600 + 575) to 2540	(1270 + 1270)	x from 1775 to 2300	from 1095 to 2460	x	from 1735 to 2260		**$EI_2$90**
from 1175	(600 + 575) to 2500	(1250 + 1250)	x from 2301 to 2500	from 1095 to 2420	x	from 2261 to 2460		**$EI_2$90**
from 1175	(600 + 575) to 2380	(1200 + 1180)	x from 2501 to 2630	from 1095 to 2300	x	from 2461 to 2590		**$EI_2$90**
from 890	(540 + 350) to 2540	(1270 + 1270)	x from 1775 to 2670	from 810 to 2460	x	from 1735 to 2630		**REI 60, REI 120 anchor fixing**
from 890	(540 + 350) to 2298	(1164 + 1134)	x from 1775 to 2275	from 810 to 2218	x	from 1735 to 2235		**REI 60, REI 120 embracing frame**
from 1962	(996 + 966) to 2540	(1270 + 1270)	x from 2050 to 2500	from 1882 to 2460	x	from 2010 to 2460		**REI 60, REI 120 embracing frame**
from 890	(540 + 350) to 2298	(1164 + 1134)	x from 1775 to 2275	from 810 to 2218	x	from 1735 to 2235		**REI 60, REI 120 subframe or expansion screw**
from 1962	(996 + 966) to 2540	(1270 + 1270)	x from 2050 to 2500	from 1882 to 2460	x	from 2010 to 2460		**REI 60, REI 120 subframe or expansion screw**

NOTE

The following doors are equipped with a CP1 door closer:

$EI_2$90 2 leaves: from 2271 to 2540 x from 2151 to 2300
from 1801 to 2500 x from 2301 to 2500
from 1801 to 2380 x from 2501 to 2630

$EI_2$120 1 leaf: from 1126 to 1340 x from 2301 to 2500
from 901 to 1340 x from 2501 to 2640

REI 120 1 leaf: from 1126 to 1340 x from 2301 to 2500
from 901 to 1340 x from 2501 to 2670
2 leaves: from 1126 to 1270 x from 2151 to 2300
from 901 to 1270 x from 2301 to 2670

HANDLE HEIGHT

One-leaved door

h = 1050 (FM H ≥ 1750)
Different heights available upon request only

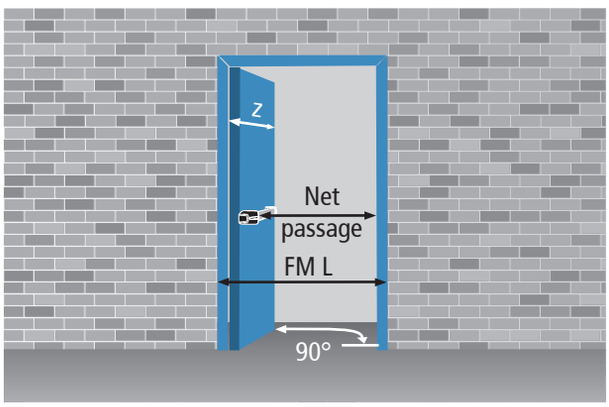
Two-leaved door

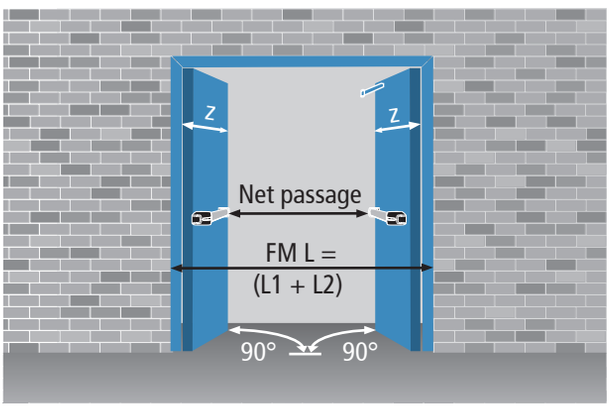
h = 1050 (FM H ≥ 1750)
Different heights available upon request only

Opening measurements - Overall dimensions

PROGET fire doors

OPENING MEASUREMENTS AND OVERALL DIMENSIONS WITH 90 DEGREE OPENING





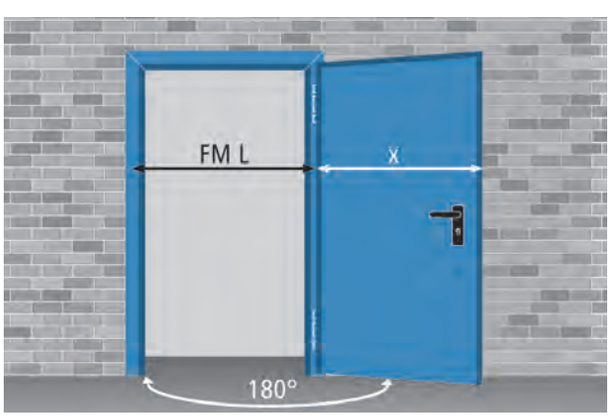
Net passage calculation

panic bar type	protrusion	one-leaved door	two-leaved door	one-leaved door with block frame	two-leaved door with block frame
EXUS	125	FML - 245	FML - 410	Opening - 315	Opening - 480
TWIST	100	FML - 220	FML - 360	Opening - 290	Opening - 430
SLASH	75	FML - 195	FML - 310	Opening - 265	Opening - 380
FAST TOUCH	75	FML - 195	FML - 310	Opening - 265	Opening - 380
without panic bar	-	FML - 120	FML - 160	Opening - 190	Opening - 230
z = leaf protrusion relative to the wall		FML + 27	$EI_2$60, REI 60, REI 120 = L1 + 35, L2 + 75; $EI_2$90 = L1 + 67, L2 + 75		

OVERALL DIMENSIONS WITH 180 DEGREE OPENING

One-leaved door

x = FML - 7



Two-leaved door

$EI_2$60, REI 60, REI 120: x = L1 + 1; $EI_2$90: x = L1 + 33; y = L2 + 42

b = max. 130 (only in the presence of a panic bar or M14 handle)