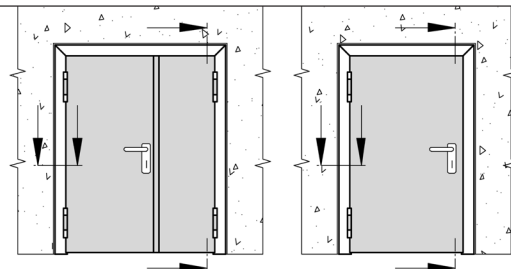


INSTALLATION, USE AND MAINTENANCE HANDBOOK FOR EI₂60, EI₂90, EI₂120 AND MULTIPURPOSE PROGET DOORS - BLOCK FRAME FOR IN THE REVEAL APPLICATION

EI₂ classification:
EI₂ 60: P.V. 14-A-032
EI₂ 90: P.V. RS-12-077
EI₂ 120: P.V. RS-06-092

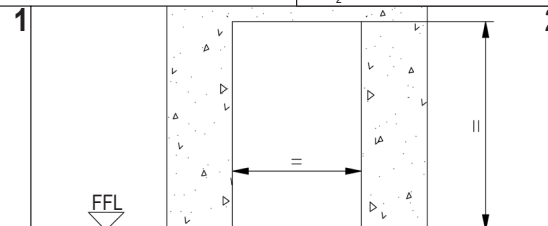
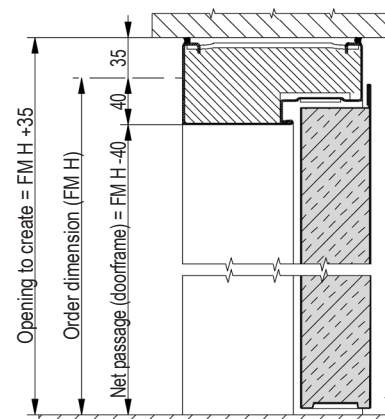
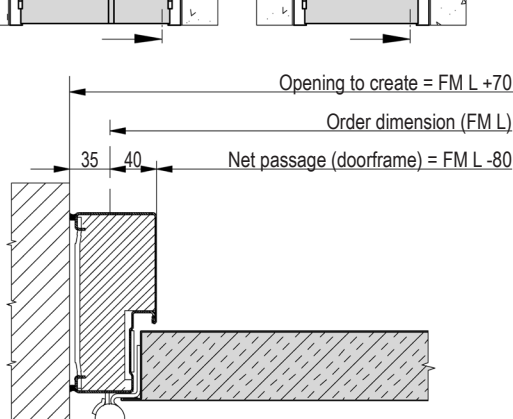
NINZ S.p.A.
corso Trento, 2/A
I-38061 ALA (TN) / ITALY

I66-GB
5001503/2
06/16 1/3

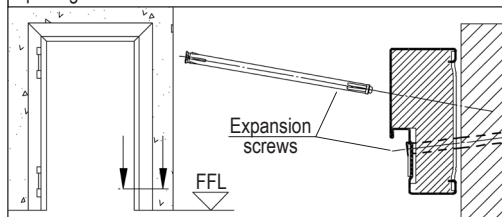


LEFT (SX) RIGHT (DX)
Opening direction

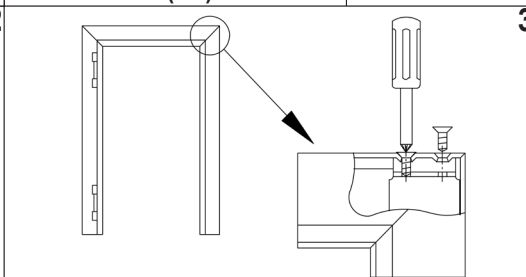
NOTE: multipurpose doors are not equipped with thermoexpanding gaskets, doorframe insulation and closing regulators.



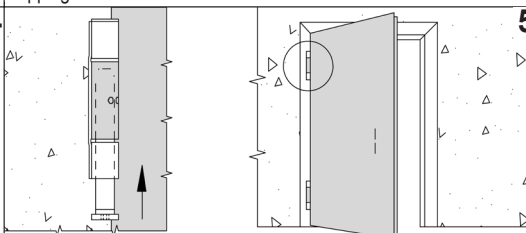
For door with environmental characteristics see also the enclosed complementary installation instructions. Unpack the door and verify that the dimension of the opening to create fits. Establish the finished floor level (FFL). Verify the opening direction of the door.



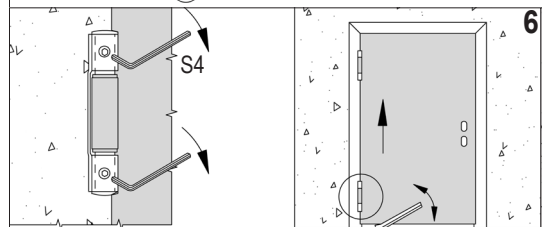
Fasten the doorframe in the wall respecting the plumb line, the FFL and fix it through the given holes, inserting spacers between the frame and the wall if necessary. Expansion screws recommended: for light wall - Würth type DBL-(WUS-SK)-Z3-180-10x202; for heavy wall - Spit type L 10-102/152 (not supplied).



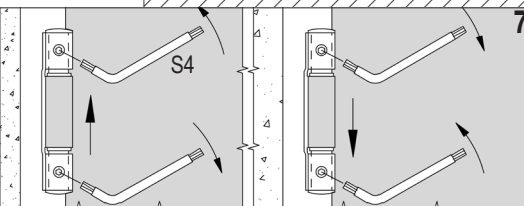
Join the 4 corners of the doorframe profiles with the supplied self-tapping screws.



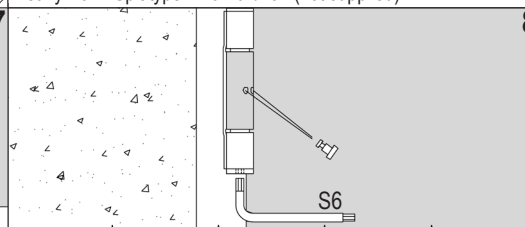
Unpack the door leaf without removing spacers and wedges, place it in the doorframe inserting the pivot with spring in upper hinge for leaf with left to pull opening direction and lower hinge for leaf with right to pull opening direction.



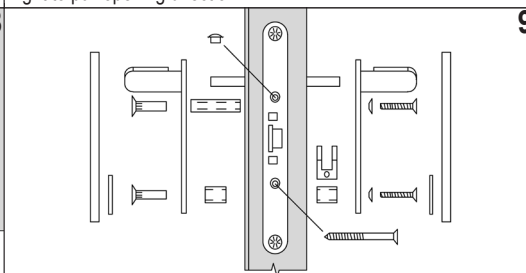
Close the leaf with the aid of a lever and hold raised it. Bring the main hinge bearings in contact with each other through the use of the screw thread. Operation to be carried out with the maximum care and without forcing.



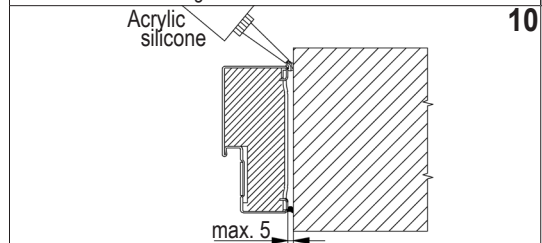
Remove the spacers between frame and leaf. Regulate the vertical leaf's position. To raise the door leaf: unscrew the upper blocking screw, screw on the lower one, screw on the upper one again. To lower the door leaf: unscrew the lower blocking screw, screw on the upper one. Operation to be carried out with the maximum care with the aid of a lever.



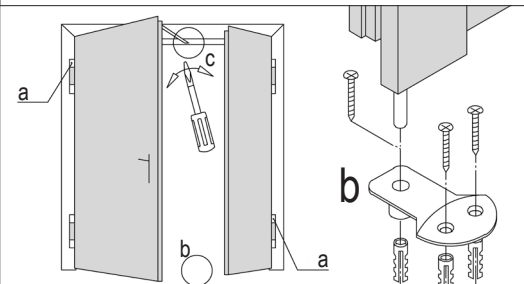
Wind up the spring hinge in the opening direction inserting the tension pin. Even if self closing is not needed or overhead doorclosers are installed, wind up the hinge spring anyway blocking it with the tension pin. The self closing it is mandatory for fire-rated doors.



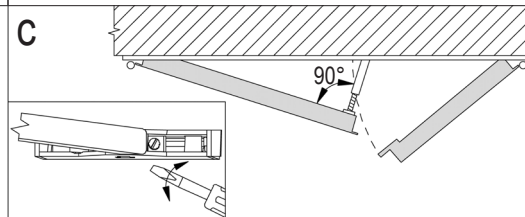
Mount the handle.



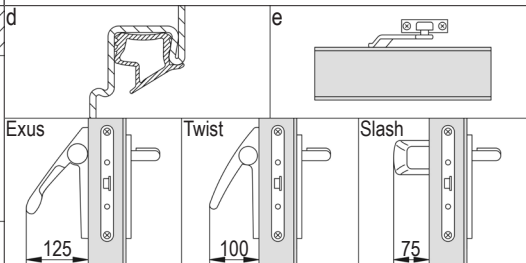
The silicone seam is at customer's expense. Fill up with mineral wool the gap between doorframe and wall if it is excessive.



RC/STD (part. "c") obligatory only for fire-rated doors; RC2 obligatory for fire-rated doors with environmental characteristics.



For two-leaved doors use the same assemble procedure adding: a) load two pivot with springs; b) install the catch set in the floor; c) in case of RC/STD adjust the closing regulator (arm position perpendicular to the main leaf).



Optional: d) rebate sealing - e) overhead doorcloser (the spring must be anyhow slightly loaded) - Exus, Twist or Slash panic bar.

INSTALLATION, USE AND MAINTENANCE HANDBOOK FOR EI₂60, EI₂90, EI₂120 AND MULTIPURPOSE PROGET DOORS BLOCK FRAME FOR IN THE REVEAL APPLICATION

I66-GB 2/3

GENERAL NOTES

STANDARD: the assemble instructions have to be followed in every detail to respect the test conditions and assure the perfect functioning of the door, including the self-closing for fire-rated doors. Furthermore a regular service is necessary. Multipurpose doors are not endowed with thermoexpanding gaskets, doorframe insulation and closing regulators.

LIABILITY: it is duty of the installer to follow the installation instructions in any detail, specifically point 6, 7 and 8 in order to guarantee the safety of the end-users.

MASONRY WORKS: for fire-rated doors the wall thickness must be at least 200mm. It's the customer's responsibility to keep the wall integral particularly in the anchor points of the door, the application of silicon on both sides of the doorframe perimeter. This is particularly valid for fire-rated doors.

FINISHING: the serial door is finished with an epoxy-polyester powder paint oven-baked at 180 °C. The surface is orange-skin and particularly resistant. In case an additional paint is desired we advise to follow these instructions:

- make smooth the surfaces with sandpaper and dust them;
- give a first hand of opaque 2 components epoxide using the product ALCEA EPOX 5203 / 0059 (beige);
- finish the surfaces with enamels or paints to your choice.

CLEANING: the doors are supplied from the factory clean and packed. We suggest to use a clothe and soaped water only. Do not scratch the surfaces.

WARRANTY: the manufacturer gives warranty as per Italian law (C.C.1495). Any claim for missing or damaged goods have to be recorded by inserting a written remark in the delivery notes and must be notified the maximum within eight days from the date of materials receipt.

CURRENT CE MARKED ACCESSORIES FOR FIRE-RATED DOORS:

Std015 lock:	CE 0497/CPD/4265/11	- EN 12209:2003/AC	- 3 M 3 1 0 C 2 H A 2 0
Hinges:	CE 0789-CPD-2005	- EN 1935:2004	- 4 7 7 1 1 4 0 14
RC/STD closing regulator:	CE CPD-0425-1153	- EN 1158:2003	- 3 5 5/3 1 1 4

The CE marking of the Std 019 lock for inactive leaf of two-leaved doors is only valid if a panic bar or emergency handle is installed onto main leaf.

USE AND MAINTENANCE INSTRUCTIONS FOR PROGET DOORS

All fire-rated doors located in escape routes need regular maintenance in order to verify that no damage occurred and that they close regularly. The scheduled maintenance shall guarantee that the leaf swings correctly and that the self closing mechanism works properly. The doors shall be kept free from any obstructions.

Any 5.000 opening cycles but at least every 6 months the following operations shall be carried out:

- lubricating the ball-bearing hinge;
- lubricating the spring hinge and the spring after removing the tension pin;
- wind up the spring inserting the tension pin. Verify that the closing force is sufficient to shut the door if opened to 30±2°;
- lubricating the lock and the latch.

For double leaf doorsets additional controls shall be carried out:

- verify the functionality of the secondary leaf's rods and lubricate its guide rail;
- clean the hole of the floor catch set;
- lubricate the lock and the self-locking device (top onto passive leaf);
- verify the regular functionality of the closing regulator (in case of RC/STD, the arm must be in perpendicular position to the main leaf); lubricate the mobile parts of the closing regulator.

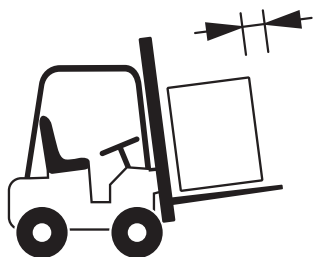
Verify the regular functionality of the doors accessories (handle, panic bar, overhead doorcloser etc.). Their mobile parts shall be lubricated too, following the dedicated instructions.

In case of irregular functioning of the door or its accessories contact an authorized installer or replace the damaged accessories.

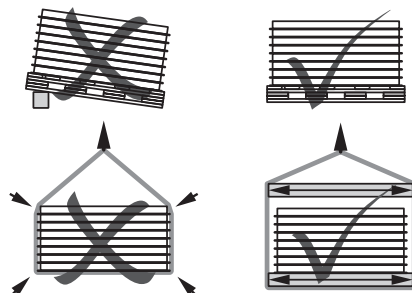
Note: for lubrication use viscous products.

HANDLING AND STORAGE - COMPLAINTS

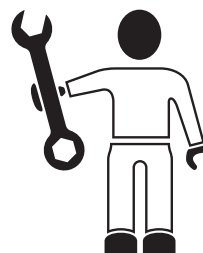
Handling: in case of handling with webbing slings/ropes, place them under the feet of the pallet; avoid to place them under the boards; avoid that the action of slings/ropes produces too much pressure upon the doors, by means of spacers interposed in the upper part. Do not handle the leaves using suction caps. **Storage:** it is duty of the company/person taking over the doors to store them in a suitable place so that they will be protected from the natural agents and from the direct sun rays. If during transportation or truck unloading it rains or snows on the doors it is necessary to remove immediately the nylon film from each leaf and doorframe put them in vertical position to dry appropriately. **Complaints:** in case of external visible defects on doors, they have to be marked in the copy of the transportation document to be returned to the forwarder and notified to the manufacturer by registered mail within 48 hours. We remember that according to our general conditions intrinsic defects have to be notified to the manufacturer within 8 days from the delivery date by registered mail. Goods with defects never have be utilized or assembled, they should be stored at disposal for controls by the manufacturer appointed person.



Move the materials with appropriate means.



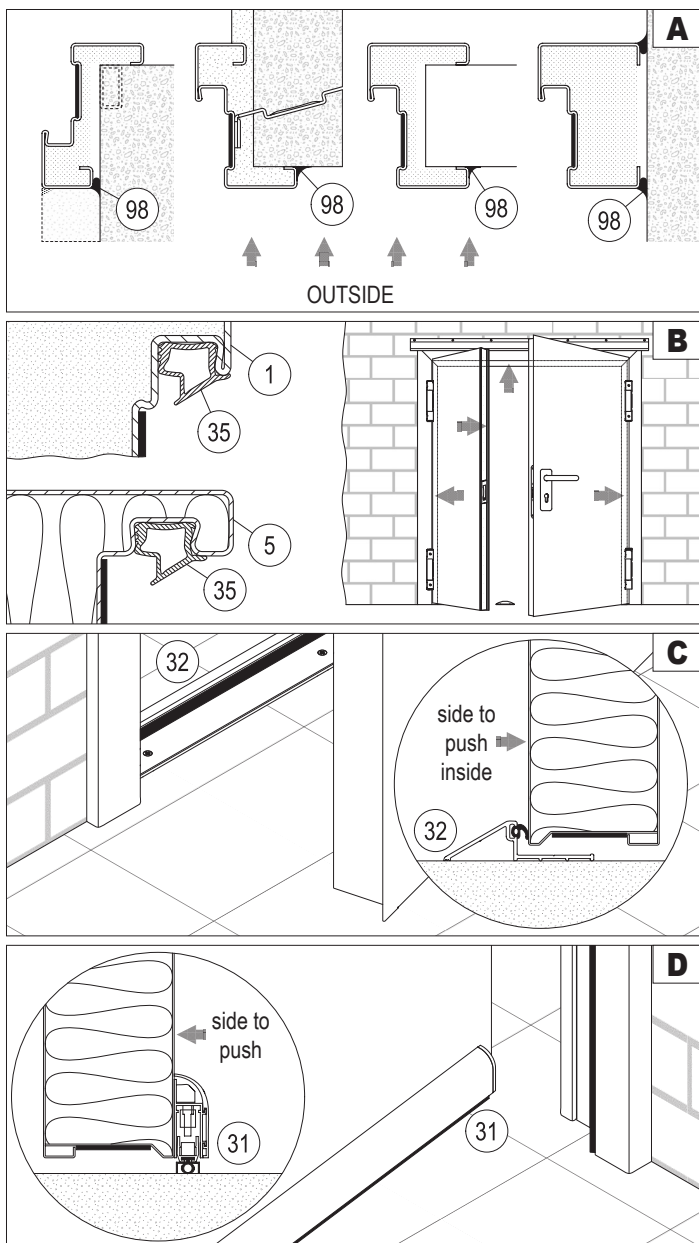
Store and handle the materials with care.



Assemble by qualified staff only.



Do not expose the materials to the natural agents.



COMPLEMENTARY INSTALLATION INSTRUCTIONS FOR PROGET FIRE-RATED DOORS WITH ENVIRONMENTAL CHARACTERISTICS AND PROVIDED WITH APPROPRIATE OPTIONAL

ATTENTION

- If the PROGET door should provide also environmental characteristics, these complementary installation instructions must be strictly followed.
- **The installation with push-side exposed outside is not suitable for escapes routes and also the water-tightness will be lost too.**
- The certified acoustic performance is valid only for EI₂90, EI₂120 and REI 120 fire-rated doors with angular frame.

COMPLEMENTARY INSTALLATION INSTRUCTIONS

- Protect the door from direct weathering action. If necessary, install a canopy roofing immediately above it, which prevent the water infiltration in the upper part of the door.
- If the door was ordered without a coating for exterior use, it is duty of the customer to apply a suitable paint, by following the instructions in the dedicate section for re-painting of surfaces.

Drawing A

- It is necessary to seal with neutral silicone (98 - not supplied) the perimeter edge of doorframe, in the angle formed with the external side of the wall.

Drawing B

- Cut the FF rebate sealing (35) to measure with upper corners of 45 degree. Insert the sealing into appropriate channels (showed in drawing by arrows) of the doorframe (1), and, in case of two-leaved door, of the central joint of the passive leaf (5). Place the sealings with profiles turned as shown in sections.

Drawing C - VERSION WITH THRESHOLD

KIT AMB P1 series, with performances of: thermal transmittance, air permeability, water-tightness and resistance to windload.

- Install the fixed threshold (32), keeping in mind that in order to achieve all the expected performances, this application is possible only with the door installed with the pull side inside. For the installation of the fixed threshold follow meticulously the A170 instruction, supplied with the KIT AMB.

Drawing D - VERSION WITH AUTOMATIC DOOR SWEEP

KIT AMB P2, KIT AMB P3, KIT AMB P4 and KIT AMB P5 series, with performances of: thermal transmittance, air permeability and, for fire-rated EI₂90, EI₂120 and REI120 door with angular frame, acoustic insulation.

- Install the automatic doorsweep (31) follow meticulously the IF01 instruction supplied with the KIT AMB. When the installation is complete, verify that the automatic door sweep do not inhibit the opening of the door; otherwise regulate properly the doorsweep following his installation instructions.

Consiglio Nazionale delle Ricerche

IVALSA
TREES AND TIMBER INSTITUTE

TABELLA RIASSUNTIVA RAPPORTI DI PROVA DITTA NINZ - PORTE TAGLIAFUOCO

modello	classe	ante	soglia	misure	fines. 400x600	classificazione	n° RP
PROGET EI60, EI120, REI60, REI120	1	SOGLIA FISSA	1140x2145	Aria, Acq. Ven	2, 1A, C1	09/02/2010	
PROGET EI60, EI120, REI60, REI120	1	GUARNIZIONE SOTT.	1140x2145	Aria	2	09/03/2010	
PROGET EI60, EI90, REI60, REI120	2	SOGLIA FISSA	2294x2152	Aria, Acq. Ven	3, 2A-4B, C1	09/06/2010	
PROGET EI60, EI90, REI60, REI120	2	GUARNIZIONE SOTT.	2294x2152	Aria	3	09/05/2010	

TRASMITTANZA TERMICA

modello	classe	ante	soglia	misure	fines. 300x400	senza finestr.	n° RP
PROGET EI60, REI60	1	GUARNIZIONE SOTT.	1230x2180	1,89	1,37	09/20/2010	
PROGET EI60, REI60	1	SOGLIA FISSA	1230x2180	1,88	1,35	09/21/2010	
PROGET EI120, REI120	1	GUARNIZIONE SOTT.	1230x2180	1,84	1,39	09/22/2010	
PROGET EI120, REI120	1	SOGLIA FISSA	1230x2180	1,83	1,38	09/23/2010	
PROGET EI60, REI60 > 3.6 m²	2	GUARNIZIONE SOTT.	2000x2180	2,14	1,45	09/46/2010	
PROGET EI60, REI60 > 3.6 m²	2	GUARNIZIONE SOTT.	1230x2180	2,91	1,80	09/46/2010	
PROGET EI60, REI60 > 3.6 m²	2	SOGLIA FISSA	2000x2180	2,08	1,44	09/47/2010	
PROGET EI60, REI60 > 3.6 m²	2	SOGLIA FISSA	1230x2180	2,80	1,78	09/47/2010	
PROGET EI60, REI120 > 3.6 m²	2	GUARNIZIONE SOTT.	2000x2180	2,03	1,47	09/48/2010	
PROGET EI60, REI120 > 3.6 m²	2	GUARNIZIONE SOTT.	1230x2180	2,70	1,80	09/48/2010	
PROGET EI60, REI120 > 3.6 m²	2	SOGLIA FISSA	2000x2180	2,02	1,46	09/49/2010	
PROGET EI90, REI120 > 3.6 m²	2	SOGLIA FISSA	1230x2180	2,69	1,79	09/49/2010	

TELAI SPECIALI

modello	classe	ante	soglia	misure	fines. 400x600	senza finestr.	n° RP
PROGET EI60, REI60 ABBRACCIANTE	1	GUARNIZIONE SOTT.	1230x2180	2,02	1,51	09/20e41/2010	
PROGET EI60, REI60 ABBRACCIANTE	1	SOGLIA FISSA	1230x2180	2,01	1,50	09/19e41/2010	
PROGET REI120 ABBRACCIANTE	1	GUARNIZIONE SOTT.	1230x2180	1,97	1,53	09/22e41/2010	
PROGET REI120 ABBRACCIANTE	1	SOGLIA FISSA	1230x2180	1,96	1,52	09/23e41/2010	
PROGET EI120, REI120 TUNNEL	1	GUARNIZIONE SOTT.	1230x2180	1,98	1,54	09/22e41/2010	
PROGET EI120, REI120 TUNNEL	1	SOGLIA FISSA	1230x2180	1,97	1,53	09/23e41/2010	
PROGET EI60, REI60 ABBRAC. > 3.6 m²	2	GUARNIZIONE SOTT.	2000x2180	2,24	1,55	09/46e41/2010	
PROGET EI60, REI60 ABBRAC. > 3.6 m²	2	GUARNIZIONE SOTT.	1230x2180	3,04	1,93	09/46e41/2010	
PROGET EI60, REI60 ABBRAC. > 3.6 m²	2	SOGLIA FISSA	2000x2180	2,17	1,54	09/47e41/2010	
PROGET EI60, REI60 ABBRAC. > 3.6 m²	2	SOGLIA FISSA	1230x2180	2,94	1,91	09/47e41/2010	
PROGET REI120 ABBRAC. > 3.6 m²	2	GUARNIZIONE SOTT.	2000x2180	2,12	1,58	09/48e41/2010	
PROGET REI120 ABBRAC. > 3.6 m²	2	GUARNIZIONE SOTT.	1230x2180	2,83	1,93	09/48e41/2010	
PROGET REI120 ABBRAC. > 3.6 m²	2	SOGLIA FISSA	2000x2180	2,11	1,55	09/48e41/2010	
PROGET REI120 ABBRAC. > 3.6 m²	2	SOGLIA FISSA	1230x2180	2,82	1,92	09/48e41/2010	
PROGET EI60, REI120 TUNNEL > 3.6 m²	2	GUARNIZIONE SOTT.	2000x2180	2,13	1,58	09/48e41/2010	
PROGET EI60, REI120 TUNNEL > 3.6 m²	2	GUARNIZIONE SOTT.	1230x2180	2,85	1,95	09/48e41/2010	
PROGET EI90, REI120 TUNNEL > 3.6 m²	2	SOGLIA FISSA	2000x2180	2,12	1,56	09/49e41/2010	
PROGET EI90, REI120 TUNNEL > 3.6 m²	2	SOGLIA FISSA	1230x2180	2,84	1,94	09/49e41/2010	

Test Report Summary & Expert Statement

Airborne sound insulation of building components

Report-No. 12-001195-PR01
(GAS-C02-04-en-01)

Client NINZ s.p.a.

Corso Trento 2/A
38061 ALA
Italy



Basis
EN ISO 10140-1: 2010
EN ISO 10140-2: 2010
EN ISO 717-1: 1995+A1: 2005
EN 14351-1: 2006
Documentation for test series
11-000271 referring to sound
insulation measurement of door
sets.

Product	Fire door, single and double leaf
Designation	PROGET REI 120 - PROGET EP 90 / 120
Door frame	Steel frame variants with infill panel
Coordinating dimensions	Width 0.80 m ... 1.34 m (single leaf)/1.00 m ... 2.66 m (double leaf), height: 2.00 m ... 2.67 m
Door leaf	Steel door with insulating insert and optional glazed panel
Door leaf dimensions	Width 0.40 m ... 1.327 m, Height: 1.99 m ... 2.66 m
Glazing	Variants: single, laminated or insulating glass unit
Rebate seals	1 frame rebate seal
Floor seals	1 automatic floor seal (drop seal)

Weighted sound reduction index R_w
Spectrum adaptation terms C_w



Design variants up to
 $R_w (C_w) = 36 (-1, -3) \text{ dB}$
as per Section 4.2

ift Rosenheim
10.05.2012

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Akkreditierung BGR 18
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DIN EN ISO 14001
DIN EN ISO 45001