

Fitting instructions



Nova

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1 Introduction

The following manual is intended to be a valid help to facilitate the installation of a Nova safety door, as well as to provide indications to solve the most common technical issues. Compliance with all the indications provided in this manual is an essential condition for assuring the attainment of all performance characteristics of the product. To highlight some parts of the text of particular relevance symbols are used whose meaning is described below.

Important

It indicates technical information of particular relevance not to be neglected.

For any problem or particular case not described in this manual, kindly contact your local dealer.

1.1 Performance characteristics

Nova is a line of safety doors with high performance characteristics.



Break-in resistance



Acoustic insulation



Air permeability



Water tightness



Wind resistance



Thermal transmittance

Depending on the model, the type of standard equipment and any additional kits, the characteristics listed above may vary from door to door. The attainment of the high performance characteristics is directly linked to the correct installation and adjustment of the product in compliance with the instructions given below, as well as to a correct maintenance over time.

Important

All the performance characteristics have been laboratory measured - i.e. under optimal installation and adjustment conditions. These performance characteristics may not feature the same results in products installed on site due to several variables linked to installation, adjustment, masonry type, and construction type.

Important

The handling and installation of a Nova door must be carried out exclusively by specialized technical personnel.

- 1.2 General provisions for handling and storage
 - To guarantee safety and security, prepare suitable transport, handling and storage systems

bearing in mind the impact of the door weight (about 90 kg/sqmt).

- Do not expose the product to bad weather.
- Avoid exposure of the product to sunlight and excessive heat. They can cause the adhesion of the packaging to the product and the lifting of the lower paint layer films.
- The product must be leaned vertically, respecting the up- down indication.
- Avoid any type of impact even when the leaf is packaged.
- Before opening the packaging, make sure you can proceed with the fitting.
- Any protective films on covering panels or other elements must be removed only after installation has been completed.

1.3 Unpacking

The product unpacking operations must be carried out with utmost care in order to avoid denting, scratching, or damaging the product. Do not use cutters or other sharp tools to open the packaging. The packaging material must be disposed of in compliance with the local regulations on waste disposal on the basis of the following indications regarding the materials used.

Expanded polystyrene	recyclable	plastic
Polyphrene film (padding)	recyclable	plastic
Bubble wrap film	recyclable	plastic
Cardboard	recyclable	plastic
Straps	recyclable	plastic

2 Standard supply

The door is normally provided with:

- Box containing accessories;
- Tube containing frame covering profiles;
- Packed leaf. - Glass if supplied loose.



3 Equipment

For the installation of Nova common equipment is required that usually installers have at hand.

- Pencil and measuring tape
- Straightedge
- Spirit level
- Plumb-bob - Square
- Straps for handling
- 4-rungs ladder
- Box(s) with various small parts and screws
- Cloth for leaning the tools on it
- Spatulas and brushes
- Drill
- Clutch screw gun
- Silicone gun
- Extensions for electric cables
- Drill bits for metal drilling
- Drill bits for masonry drilling
- Drill bits for wood drilling
- Insert kit for PH1, PH2, PH3 screw gun
- "T"-wrench kit with hexagonal head
- Phillips and flat-blade screwdriver kit
- Lubricating spray (WD-40 type)
- Neutral silicone (SNF Fischer type)
- Acrylic silicone (SA Fischer type)
- Various assortment of fillers, sealants, waxes, touch-up markers, etc.
- Air bearings. - Torque wrench. - Glass handling equipment. - Broom and dustpan

4 Installation site characteristics and preliminary checks

Step 1

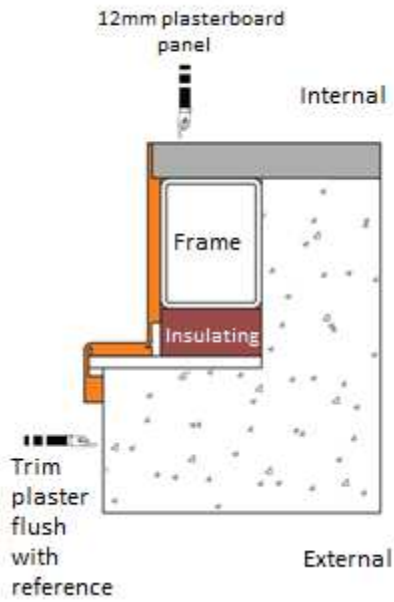
To ensure a correct installation of Nova it is essential to check that the frame has been perfectly walled up. A correct check and verification of the measures of the frame carried out before proceeding with the installation allows obtaining the best final result.

Step 2

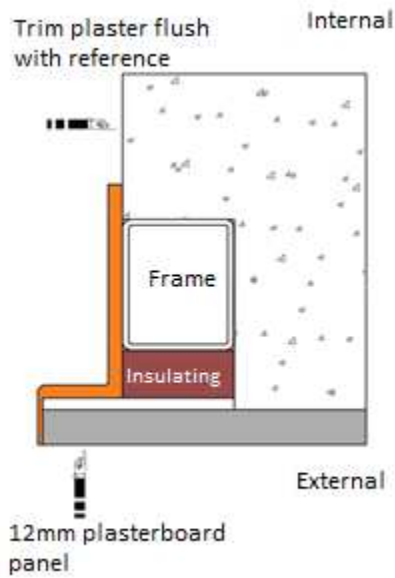
Check the correct positioning referred to the internal flush fitting according to the type of selected fitting

- Flush with internal wall.
- Flush with external wall.
- Flush with internal-external wall.
- Wall opening fitting.
- Façade fitting.

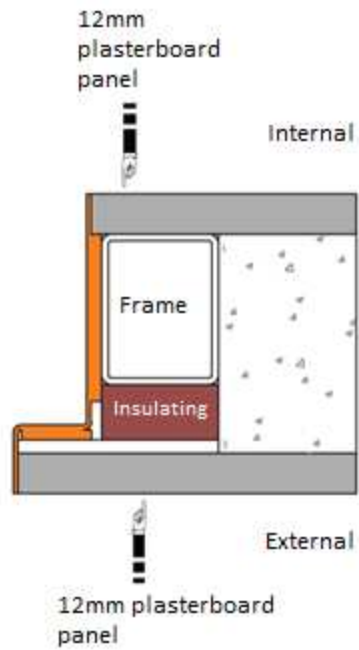
Flush with internal wall



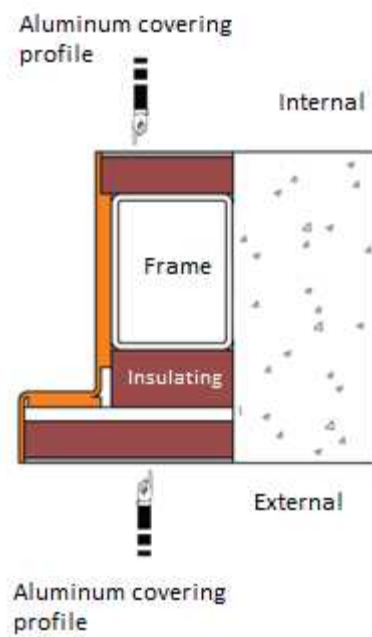
Flush with external wall



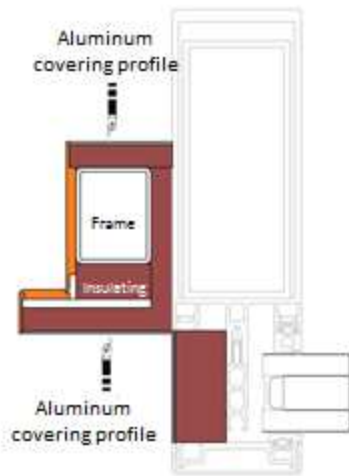
Flush with internal-external wall



Wall opening fitting



Façade fitting



Step 3

Check that the frame has a solid grip on the masonry such as to support the entire frame/leaf system and to guarantee the correct movement of the door.

Step 4

Check that all the frame fastening systems have been installed on the masonry wall

Step 5

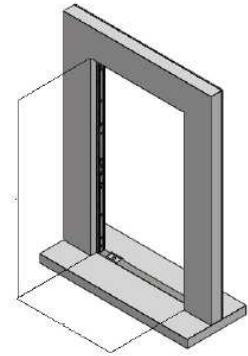
Check the measurement in width making sure to verify the measure at least on 3 points (top, bottom and center).

The nominal size of the Hole Opening must be respected with a tolerance of ± 1 mm.



Step 6

Check the height measurement taking care to verify the measure on the two corners at least. The nominal size of the Hole Opening must be respected with a tolerance of ± 1 mm.



Step 7

Check the plumb-bob alignment of the frame jambs comparing it to the plumb-bob verifying the measurement on at least 3 points (top, bottom and center) with a tolerance of ± 1 mm. Moreover, check the jambs alignment also with the help of the spirit level, which shall provide evidence of a perfect alignment.



Step 8

With the aid of the spirit level, check the upper transom of the frame. It has to be perfectly aligned.

Important

Misalignment, excessive torsions, or large dimensional differences can jeopardize the good functioning of the door.

5 Frame fitting sequence.

The Nova installation sequence is very simple and determined by distinct and compulsory steps. Following the order of the operations described below, the installation will be completed in an easy and safe way. Particular attention has to be paid to the adjustment operations in order to obtain the perfect alignment of the leaf and frame and the best aesthetic and functional result.

5.1 Fastening of the bush in the floor.

Place the template on the floor matching the frame strike plate; check its positioning according to the upper frame bush.

Check that the supplied TEMPLATE perfectly adheres to the frame and the floor; if this check is not successful, verify the correct fitting of the frame.

Step 1

Place the insert with the hole in the appropriate box and drill it with a tip having a diameter of 35mm for a depth of 40mm.



Step 2

After drilling the floor, position the second insert with the shape of the bush, which will allow the perfect positioning of the same.



Step 3

Then insert the bush which has to be fastened using chemical resin, making sure that it is gripped before removing the template and the insert.

Important

The presence of the rotation sphere inside the floor bush is essential. Nova cannot be installed without the sphere.



5.2 Frame covering profiles fitting.

Position the upper aluminum covering transom and then the cover the two jambs once the correct alignment of the three sides has been established (make sure that in the two upper

corners there is a perfect sequencing between the jambs and the transom). Proceed by fixing them using the supplied self-threading screws and clips, taking care to position it perfectly leaning on the wall.



5.4 Fitting of the frame screw covering profiles.

Apply the flat aluminum screw cover plates by clicking them on the fixing clips. To avoid the risk of damaging the profiles, help yourself with wood and a rubber hammer.

5.3 Fitting of latch adjustment and lock and switchlock plugs.

Apply the plugs housing the dead bolts and switchlocks, inserting them by pressing them on the holes provided in the aluminum coverings using a rubber hammer.

Important

The first element to be inserted and fixed is the latch adjustment element and then the lock plug.



Step 1

Fix the self-drilling element of the latch adjustment element leaving it loose.

Step 3



Move the plate to the desired point by acting on the lateral adjustment grub screw with a 2.5 mm Allen wrench (by tightening the latch stroke is increased, by unscrewing it decreases), then tighten by screwing again until the central tightening screw is tightened.



Step 2
Fit the lock plug.

Important

A correct adjustment of the latch adjustment involves the absence of play between the latch and the adjustment element when the door is closed, and the retraction of the latch bolt must not feature any forcing or jamming.

Step 4

Fit the switchlock plugs; the plugs are made of plastic material and are pressed into the appropriate housings.

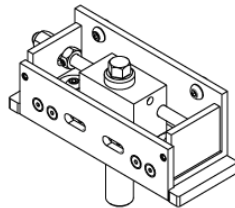
6 Fitting of the leaf with assembled glass.

Move the Nova door closer to the frame aligning it with the lower and upper bushes. Lift the door using shims or air bearings.

6.1 Hinge adjustment.

Adjustment 1

Once the leaf has been moved close to the bushes, screw the hinge pin so that it enters in the upper and lower bushes.

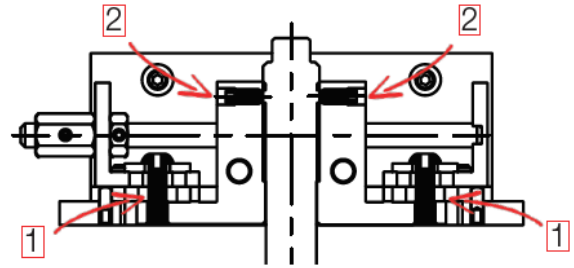


Important

Before inserting the rotation pins, make sure that the bush contains the ball and lubricate the inside of the respective bushes with grease. After adjusting the hinge pin, it is imperative to tighten the two grub screws on the side of the pin block (No. 2). Failure to tighten these two safety grub screws can make the use of the door unstable and dangerous.

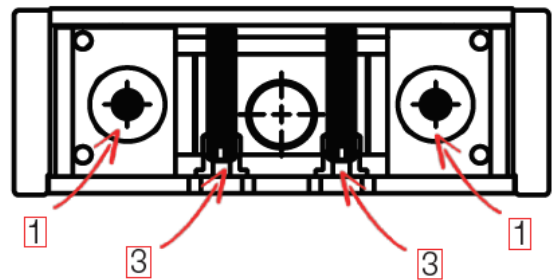
Adjustment 2

After having loosened the M8 TCEI screws, act on the M8 threaded rod using the hexagon nut; once the correct adjustment has been found, close the two M8 screws (No. 1), in order to prevent unwanted door shifts.



Adjustment 3

After having loosened the M8 TCEI screws (No. 1), use an Allen wrench on the two frontal grub screws (No. 2). The two grub screws must be screwed or unscrewed so as to keep the hinge always parallel to the support, always compensating the rotation on both grub screws; in this way the hinge will always move in a linear way. Once the correct adjustment has been found, tighten the two M8 TCEI screws (No. 1)



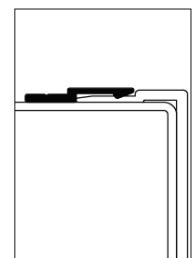
Make the right adjustments paying attention to the uniformity of the horizontal clearance between the leaf and the frame, the edge of the leaf strike plate has to feature a theoretical span of 8mm and lower than the floor by 6mm.

6.2 Fitting of internal transoms with clips.

Once the right adjustment has been attained for the hinge, it is possible to install the covering profiles of the transoms on the internal side.

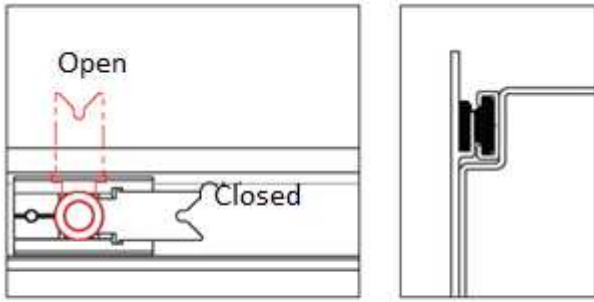
Step 1

Position the transom by hooking the support profile screwed into the lower and upper tube. The support will hold the profile in place before being locked with the clips.



Step 2

Place the clips in their housing seats obtained on the profile in their position as shown in the picture.



Step 2

Fit the glass sealing strip (see item 8).

7 Fitting of the leaf with disassembled glass.

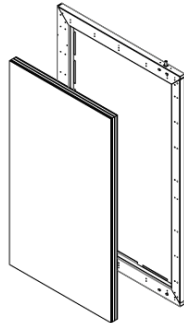
For large doors, to facilitate handling and installation of the door, it is advisable to install the glass after the door is vertically positioned.

Step 1

Move the Nova leaf close to the frame aligning it to the lower and upper bushes. Lift the door using shims or air bearings.

Step 2

Once the leaf has been positioned on the frame with the hinge pins inside the upper and lower bushes, install the glass, centering it on the metal frame.

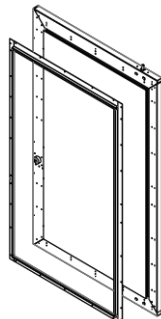


Important

For safety reasons, the glass must always be moved from the armoring side.

Step 3

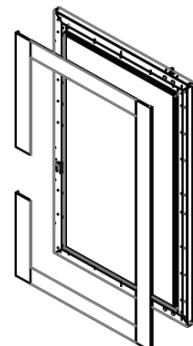
Fix the glass stops by locking the studs welded on the glass stopper using M6 nuts. This operation involves the use of a socket wrench acting through the inner side of the leaf.



Important

Close the M6studs with the aid of a properly adjusted torque wrench so as not to transmit stress to the glass which would cause it to break

Step 5



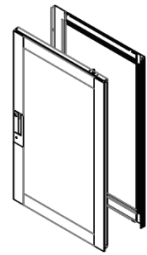
Fix the external handle using the supplied screws. The external cladding and the handle must be perfectly in line.

Step 4

Fix the external Nova coverings by screwing the supplied M6 TCEI screws. The tightening of the screws must be uniform and equal throughout the perimeter so as not to create steps between jambs and transoms.

Step 6

Fix the internal coverings by acting on the fixing clips (see item 6.2). Before fitting the coverings on the transoms, make sure that it is not necessary to adjust the hinges (see item 6.1).



8 Fitting of sealing strips.

If not present, install the glass leaf and frame sealing strips in their seats.



Leaf sealing strip



Glass sealing strip



Frame sealing strip - pin side

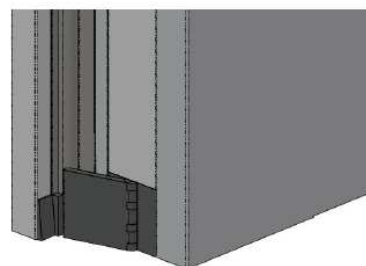


Frame sealing strip - lock side

9 Fitting and adjustments of draught excluders.

9.1 Krono adjustment

If necessary, adjust the Krono. Pull the button out of the profile of the draught excluder and by screwing or unscrewing it increase or decrease the speed at which the blade comes out. With closed door, it is important to check the most suitable position for the best closing of the span under the door. The adjustment is located behind the lever anchored to the screw cover on the leaf jambs.

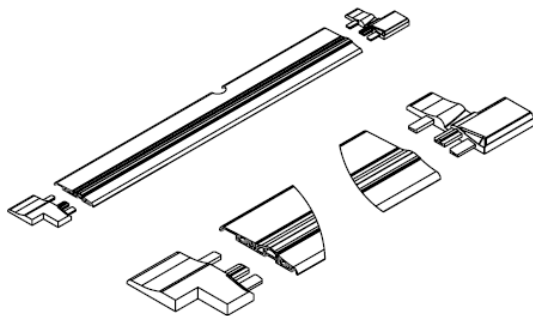
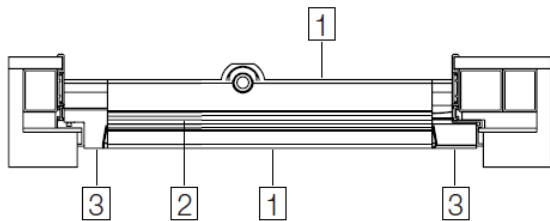


9.2 Mose threshold fitting.

The Mose is a particular aluminum threshold that is part of the water-air-wind Mose kit. Given the importance of the performance obtained with the application of the Mose kit, it is essential to perform the installation of the threshold with utmost care, especially for seals.

The threshold consists of 3 components:

1. Aluminum threshold profiles
2. Locking insert in thermoplastic material on the floor
3. Plastic fitting elements



9.3 Mose adjustment.

Adjust the height of the Mose kit using the screw that is inside the profile. Check that the sealing strip is completely closed against the floor threshold. The right compression has to let experience a slight friction effect during closing.

