

# ASSEMBLY INSTRUCTIONS



## ESTENSE



SECURITY DOORS



Dear client,

Thank you for purchasing a Scigno security door. Please follow the instructions given below to install your new security door.

## GENERAL INFORMATION:

- Unpack the door carefully so as not to damage it.
- Do not use a box cutter or sharp tools to open the packaging.
- Take care when handling or storing the product.
- The standard supply (if the subframe has already been delivered) for a single panel door is composed of three packages: package 1 contains the door and the frame packed together, while package 2 contains the box of hardware and package 3 the internal cable covers. For 2 panel doors, the standard supply is 5 packages: package 1 contains the packed door panel, package 2 the secondary panel, package 3 the packed frame, package 4 the cable covers and package 5 the box of hardware.

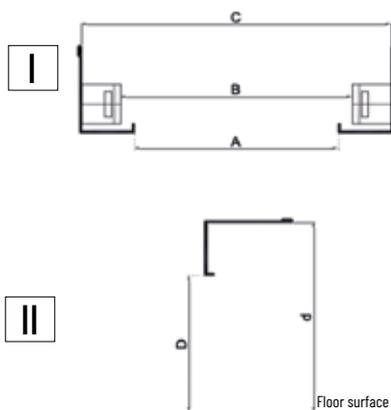
The box of hardware contains: 8 M8 threaded brackets + 8 M8X30 cylindrical head screws for mounting the frame to the subframe, 8 dia. 14 mm plastic caps for covering the holes in the frame, the interior handle, the external knob or handle (as applicable), 2 or 4 plastic parts for covering the frame hinge mountings, the peephole, the cylinder and the opening limiter control (as applicable).

## CHECKING THE SIZE OF THE SUBFRAME

It is essential that you check the subframe's width (fig. I) dimensions A, B and C, taking care to measure the dimensions at 3 points (at the top, centre and bottom), its height (fig. II), d and D, and diagonals.

For a door with an opening of 2100 x 900 mm, the measurements should be

A = 960 mm  
B = 988 mm  
C = 1065 mm  
D = 2132 mm  
d = 2184.5 mm



Only after you have checked the measurements, install the subframe (to be done by the client), without removing the spacer welded to the subframe itself, using the cemented clamps, and screw them in with the M8x30 hex bolts with a fixed or n. 13 pipe wrench, using the dia. 10 mm holes in the subframe uprights next to the U-bolts (fig. III).

The brackets and screws are included with the subframe. While installing the subframe, check that the uprights are vertical using a level with a tolerance of +/- 1 mm.

Use the level to check that the top member of the subframe is horizontal to within +/- 1mm, as well as the floor in the area over which the door opens and closes.



## STEP 1. PREPARING THE SUBFRAME

Once the cement used to install the subframe has completely dried, remove the spacers welded to the subframe: use a hacksaw at 45° to the horizontal spacers to cut right through their centres, dividing them into two pieces, then remove the two sections by moving them vertically (top - bottom) until they come away. Use the same procedure to remove the two oblique spacers between the uprights and the cross member.

Clean all residue of mortar and plaster off the subframe and make sure that it still has the dimensions you checked before installing it.

Fit the threaded brackets into the subframe's U-bolts (fig.1).



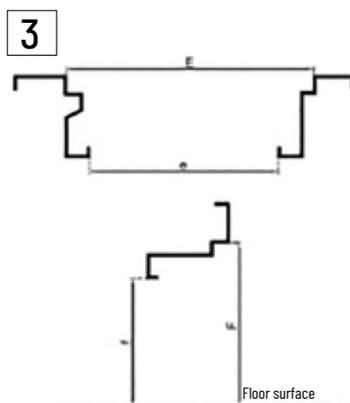
## STEP 2. INSTALLING THE FRAME

Fit the frame into the subframe (fig.2a) and secure it to the threaded brackets (fig.2b) with M8X30 cylinder head screws (included in the box of hardware). If necessary, secure the frame temporarily to the wall with clamps or other fasteners.

Once the frame is mounted to the subframe, check its horizontal (e and E) and vertical (f and F) dimensions (fig. 3).

For a door with an opening of 2100 x 900 mm, the measurements should be

- e = 900 mm
- E = 963 mm
- f = 2100 mm
- F = 2138 mm



### N.B.

Improper levelling, torsion or significant dimensional differences can compromise the operation of the door.

## STEP 3. FITTING THE DOOR PANEL INTO THE FRAME

Fit a 4 mm thick, 150 mm wide shim in mdf or cardboard next to the frame's hinge-side upright, perpendicular to the frame itself, then move the door panel up to it and place it on the shim at around 95° relative to the frame, lift the panel and insert it, via the opening in the frame, onto the hinges (fig. 4), then raise the panel slightly and remove the shim under the panel.

The door is already equipped with hinges, installed at the factory using a template, so that once it has been inserted into the frame, there is sufficient clearance (5 mm) between the aluminium internal perimetral profiles and the frame itself.

### RIGHT/LEFT DOOR PANEL ADJUSTMENT

If necessary, you can adjust the position of the door panel relative to the frame with the studs (M8) and captive bolt (M6) at the bottom of the hinge, which can be accessed through the hole in the frame. Slacken off the captive bolt and tighten down the studs to move the panel in the direction of the lock. Tighten down the captive bolt and slacken off the studs to move the panel in the direction of the hinge.

### REMOVING THE INTERNAL PANELS

Open the door so that it is perpendicular to the frame, then start releasing the panel by inserting a metal tool between the panel and the metal section, taking care not to dent the internal panel (fig. 4a), applying LIGHT pressure starting from the top of the door, so that the panel comes away from the metal section and its clip disengages from the hole in the main/secondary door panel.

Disengage the other clips in the same way (there are 6 on each side of the door and 1 at the top).

Restore the internal panel in reverse order to the above, making sure the top clip engages properly (the internal panel must be flush with the metal section of the main/secondary door panel at the top).

## STEP 4. INSTALLING THE ACCESSORIES

Install the included accessories (internal handle, opening limiter control if provided, peephole, external knob or handle).

The cylinder is usually already installed in the lock, but if it is not, install it as follows:

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4a





- With the door open, unscrew - but do not remove - the screw on the lock side upright of the door panel next to the bolt (fig. 5) and press it towards the interior of the lock itself to release the lock's "Yale" hole from the cylinder retaining system (fig. 6 and fig. 6a).

- Keep holding the screw depressed and insert the cylinder (from the inside to the outside of the door), and use the key or knob to check that it operates.

- Once you have managed to give it at least one turn, release the screw and tighten it down (but not fully).

- Try turning the lock its full number of times, checking that the key rotates smoothly. If you can turn the lock all the way without difficulty, tighten the screw fully down. Unturn the lock completely and use the key or knob to check that you can also retract the bolt.

- With the door still open, try turning the lock fully from the outside as well.

Then close the door and check that the centre of the bolt is aligned with the centre of its hole in the frame; if necessary, adjust the hinges up/down with the M6 captive screw (included) using a 4 mm hey key. Tightening the bolt raises the door panel, unscrewing it lowers the door. Once the door is adjusted relative to the frame, lock the adjustment by tightening down the flanged nut (fig. 7).

Cover the cutaway for the hinge on the frame with the included plastic parts (fig. 7a).

Check that the door panel is completely snug against the frame along its entire height, and adjust the frame outwards or inwards if necessary (fig. 8).

If necessary, adjust the door panel relative to the frame as indicated in point 3.

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6a



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7a



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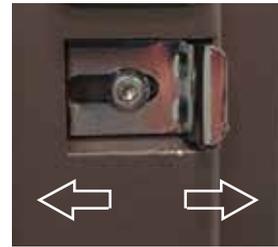


## STEP 5. ADJUSTING THE DOOR

Close the door and check that it does not vibrate and is perfectly snug against the frame when closed. If necessary, adjust the bolt register by slackening off the M6 screw with a 4 mm hex key. Once the closure is properly adjusted, tighten down the central screw (fig. 9).

Now check once more that the door works properly by closing it and turning the lock fully closed.

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## STEP 6. FINAL STEP

Clean all the door's components with a non-abrasive cloth dampened with water and a dry cloth.

Adjust the lowering of the draught bar with the screw (fig. 10): unscrewing it increases its travel so that the bar lowers further, so that the gasket is completely sealed against the floor.

Complete the installation by fitting the included plastic caps over the holes used to mount the frame to the subframe (fig. 11).

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### N.B.

if the door has a double cylinder lock, the cylinders are not installed with the screw as described above, but using a cradle-type mounting (fig. 12). To access the cylinder mounting points, remove the cylinder's internal finish plate and remove the plastic panel underneath it (fig. 13).

Gradually undo the two cradle mounting screws with a 6 mm wrench (fig. 14); these screws also secure the cylinder guard, so before you completely remove them you must extract the guard and any shims to prevent them falling inside the door panel.

Take out the screws and the cradle. Turn the key a quarter turn so that the cylinder rod retracts into the cylinder (fig. 15) and remove the cylinder itself. Undo the cradle mounting screw (fig. 16).

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Restore the cylinder in reverse order to the above.

- if the door has an electromechanical lock, the cylinders are not installed with the screw as described above, but using a cradle-type mounting (fig. 17). To access the cylinder mounting points, remove the cylinder's internal finish plate and remove the plastic panel underneath it (fig. 13). Undo the two cradle mounting screws with a 2.5 mm wrench (fig. 18).

Turn the key a quarter turn so that the cylinder rod retracts into the cylinder (fig. 19) and remove the cylinder and cradle. Undo the cradle screw securing the cylinder (fig. 20) with a 3 mm wrench. Restore the cylinder in reverse order to the above.

- If the door has a cylinder equipped for an internal thumb turn, the cylinder is not installed in the lock but is included in the box of accessories. Install it following the instructions given in step 4 or in the preceding paragraph. Once the cylinder has been installed, the length of the internal shank must be adjusted by cutting it with a hacksaw (we recommend measuring it and cutting the shank with the cylinder extracted from its mounted position).

- All cylinders have an installer key and 5 user keys. To switch from the installer key to the user key, proceed as follows: with the door open, fit a user key into the external keyhole, turn the lock fully closed and then fully open again and extract the key.

The installer key will no longer work at this point. Repeat the same operation from the inside (if the cylinder is not fitted with a thumb turn).

- Threshold: the threshold is composed of two parts. The first, which has three gaskets, is already installed to the door panel, while the other part must be installed to the floor.

Once you have completed step 6 (final step), you must adjust the length of the floor section by cutting the aluminium member with shears or a hacksaw (cut to the open width of the door -2mm), then fit the two included black plastic caps (fig. 21).

To install the threshold to the floor, remove the upper aluminium section and use the included anchor bolts or, if you prefer, polyurethane adhesive, making sure that the threshold is flush with the outside of the frame (fig. 22), and fit the upper section again.

- if the door is equipped with an electromechanical lock, appropriate instructions are provided with the door.

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