# SWING X122
# REI 30_EI1 30' - REI 60_EI1 60'
# Installation, use and maintenance booklet (as per Art.J D.M.21/06/2004)

Data sheet
Installation and painting instructions
Use and maintenance



Scrigno SpA | scrigno.com
via Casale Sant'Ermete 975
47822 Santarcangelo di Romagna (RN)
ph. + 39 0541 757711
infoscrigno@scrignogroup.com

# TECHNICAL DATA SHEET

## Wall thickness:

- 125 plaster
- 125 plasterboard

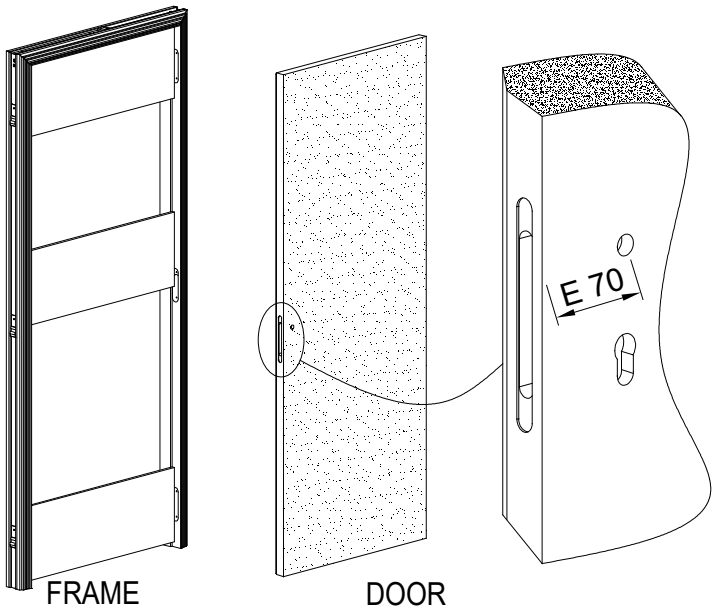
the wall must have fire resistance equal to or greater than that of the product.

## Packaging Composition

Consisting of two packs:
Frame pack – Door pack

## Panel

Thickness 60 mm consisting of hardwood frame and heat-insulation material, plated with 3 mm MDF with edging seals on closures.
Panel ready to accommodate handle hole and cylinder.




## Panel finish

primer

## Available sizes

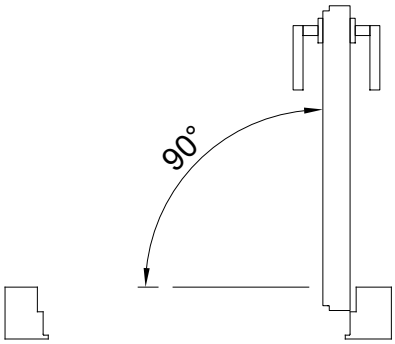
Width from 600 to 1100* mm. at 100 pitch
Height: all sizes from 2000 to 2650 mm.
*For width 1100 mm, maximum height 2530 mm.

## Door closer

Incorporated Dorma ITS 96 EN 2-4.
Door closer with cam drive integrated in the door panel, CE mark according to EN 1154 A, with fast decreasing opening torque/force. Adjustable closing force, closing speed and release action.

## Operation

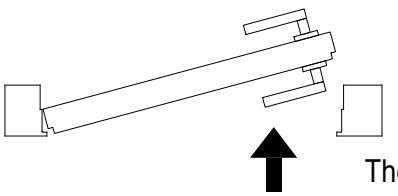
Door flush with wall, with clearance between panel and frame from 1 to 6 mm. and clearance between floor/threshold from 4 to 10 mm. Rotation on concealed hinges.
Maximum opening 90°.




## Certifications

Certified according to UNI EN 1634-1 :2009 and approved as per M.D. 21/06/2004:
Type approval doc. RN284EI 1060P001 (Rei 60)
Type-approval doc. RN284EI1060P001D30(Rei 30)
Fire resistance test certificate No. 52/U/12-164FR.
Noise reduction:
Rw 23(-1:0) dB according to ISO 717-1(2000).
Result obtained with Dorma incorporated door closer and under-door sealing strip.

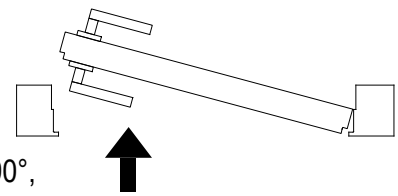
## Type of opening



LH Push model.

PUSH OPENING

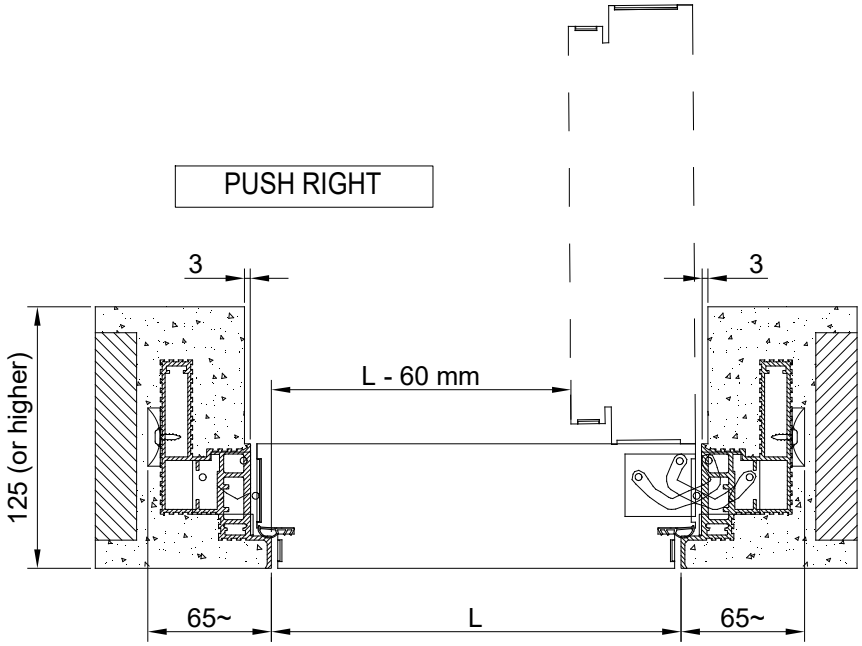
The push opening enables the door to be opened at 90°, which reduces the effective clear opening by approx. 60 mm.



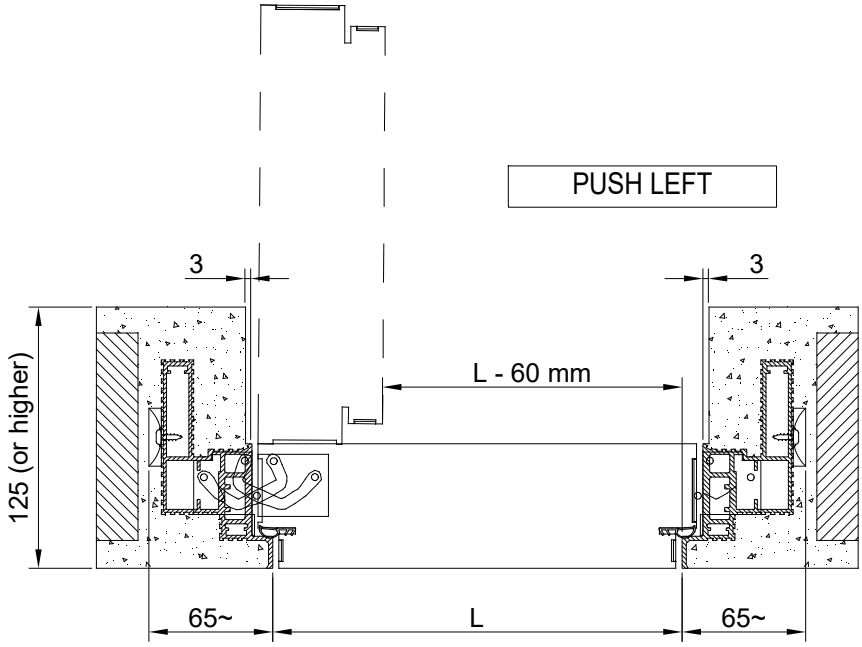
RH Push model.

HORIZONTAL CROSS SECTION

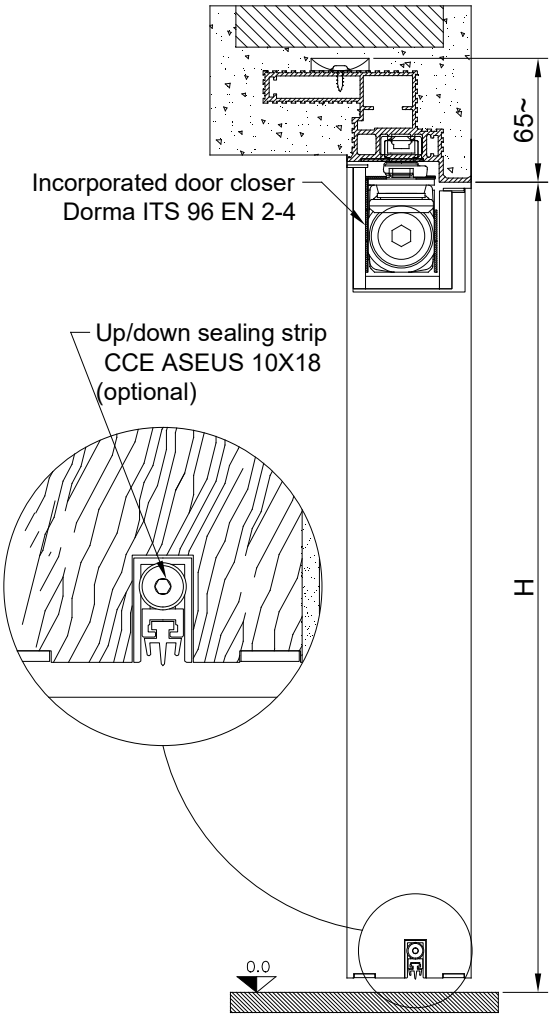
PUSH RIGHT




PUSH LEFT

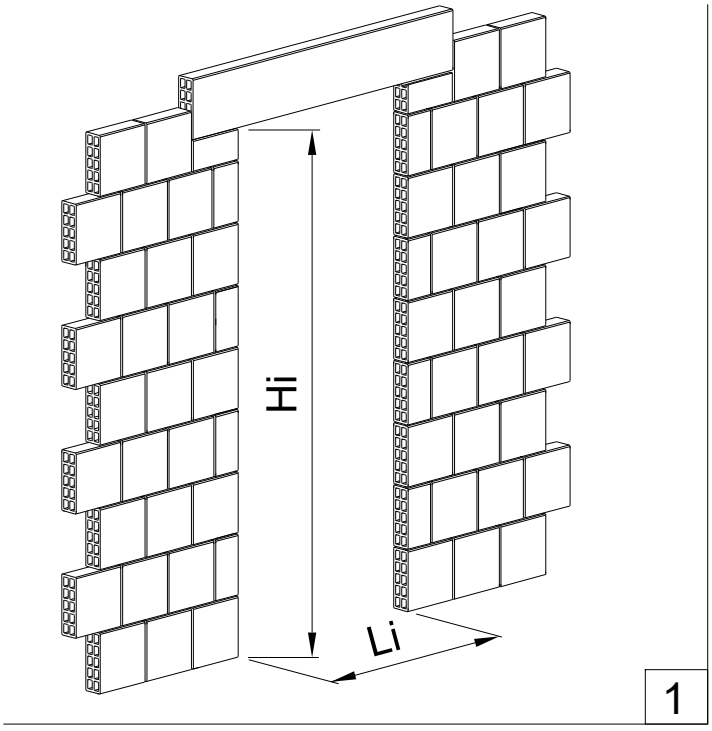



VERTICAL CROSS SECTION

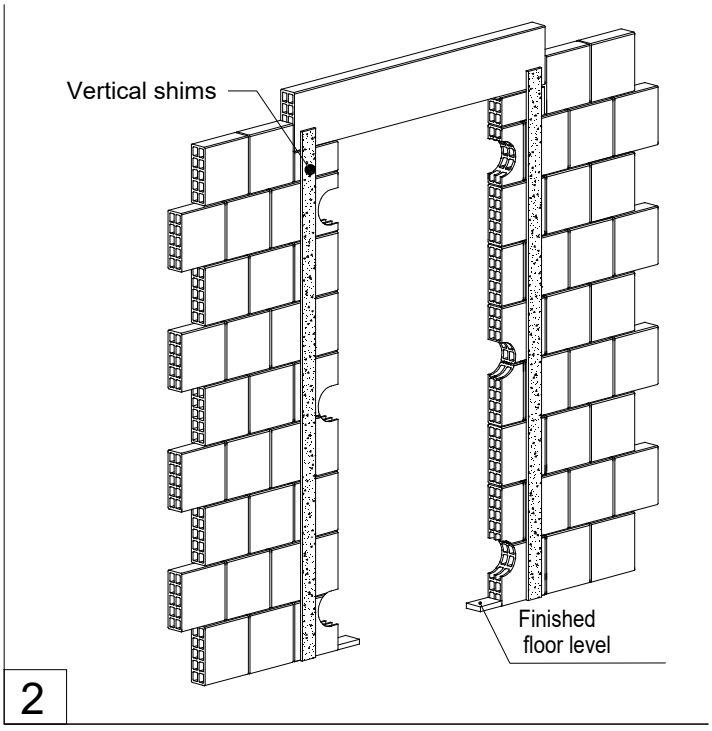



The wall must have fire resistance greater or equal to that of the installed product (Rei_30 - Rei_60).

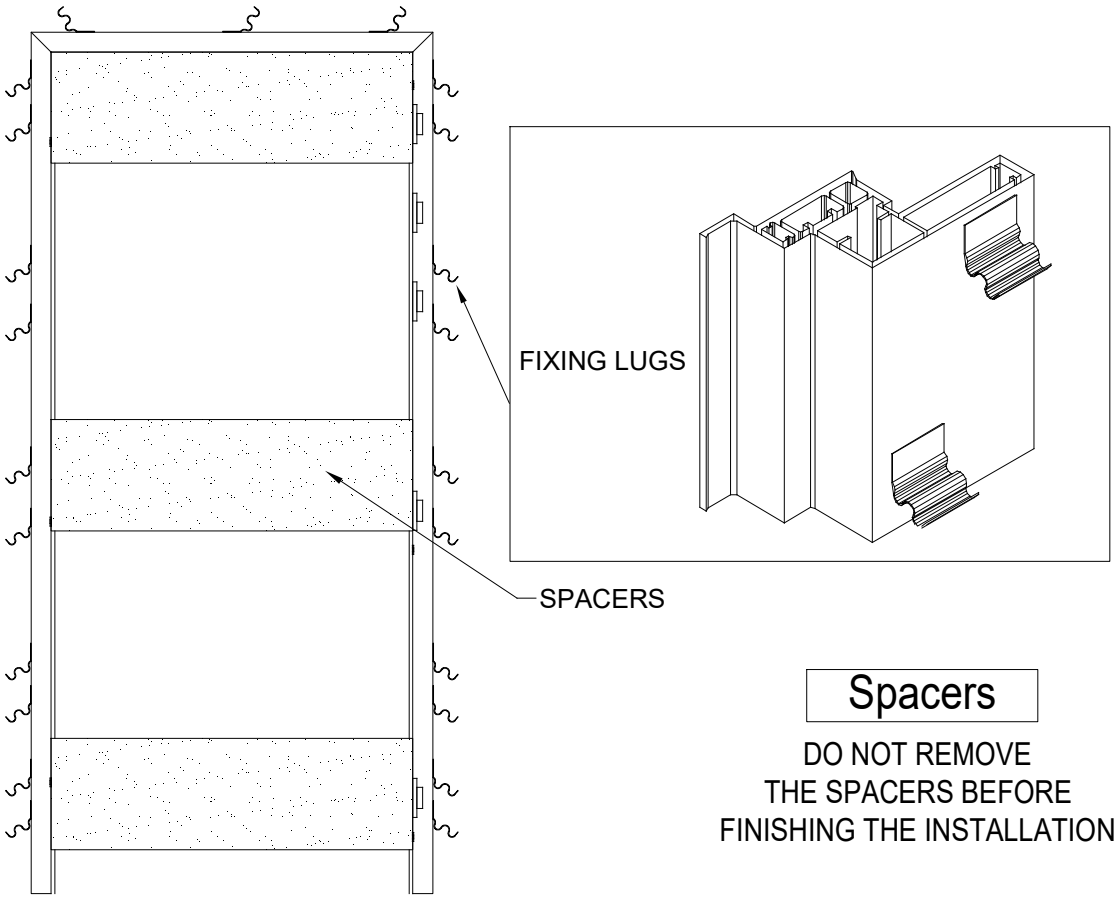
# INSTALLATION IN BRICK WALLS




Make the compartment to accommodate the frame as shown on the previous page.
**Wall hole dimensions:** provide a clearance of 30/40 mm in width and 20/25 mm in height **with respect to the floor level**.

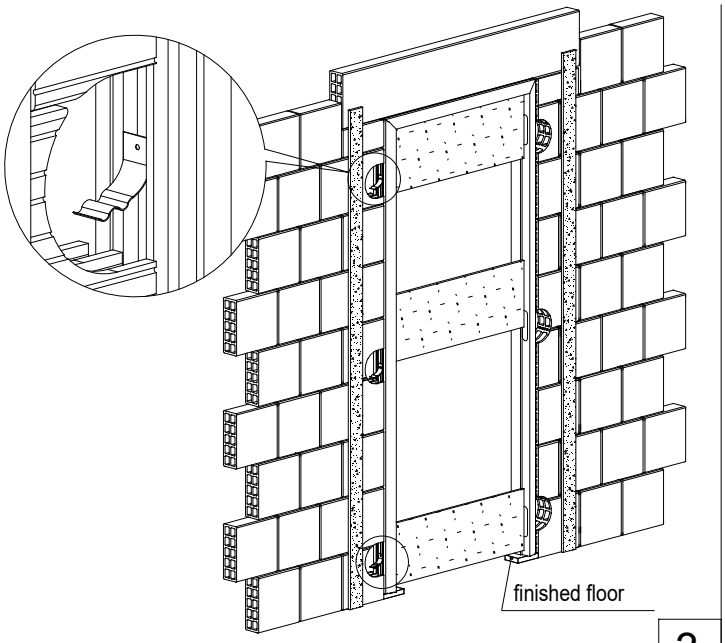



Create the supports for the finished floor level frame. Make vertical shims to ensure plaster uniformity. Break the compartment near the fixing lugs in the side walls and in the upper crosspiece.



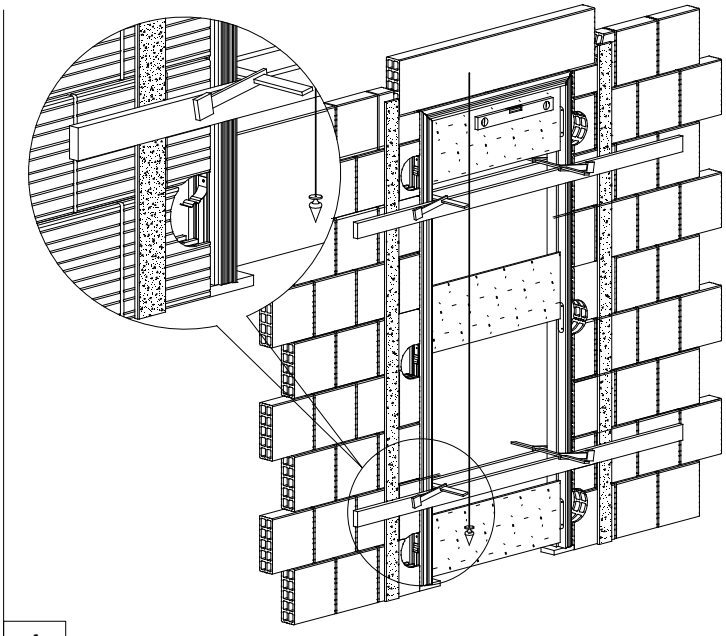

## Spacers

DO NOT REMOVE
THE SPACERS BEFORE
FINISHING THE INSTALLATION



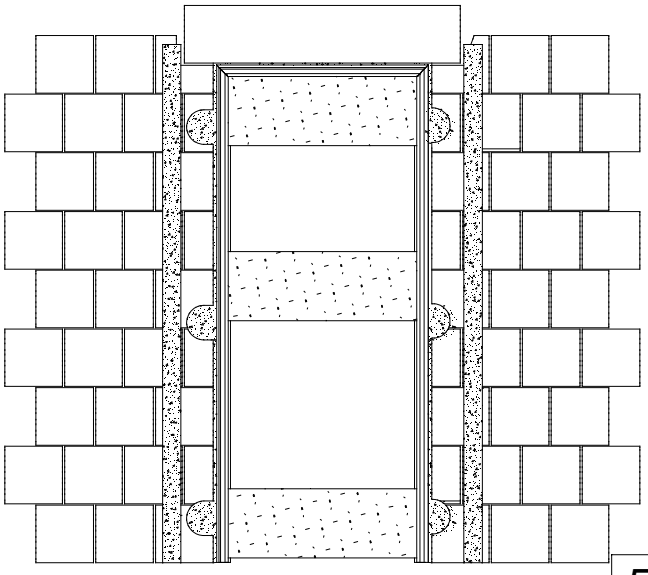

3

Position the aluminium frame, complete with stiffening spacers, fold the metal fixing lugs secured to the frame. Position the frame making sure the plumb line and the surface are aligned. **IMPORTANT: The lower base of the frame must be flush with the finished floor.**



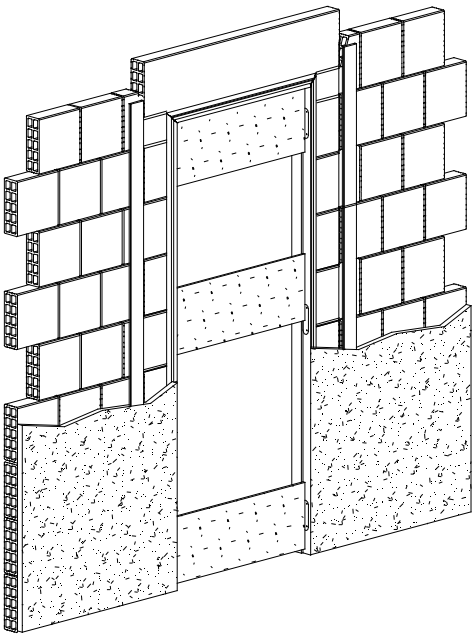
4

Secure the frame to the created compartment using springs and align one side of the frame flush with the finished wall. Secure with clamps. Check the alignment of the plumb line and surface again. Fasten the frame with fast-setting concrete in the fixing lugs and at points along the perimeter parts. DO NOT REMOVE THE STIFFENING SPACERS AT THIS STAGE.



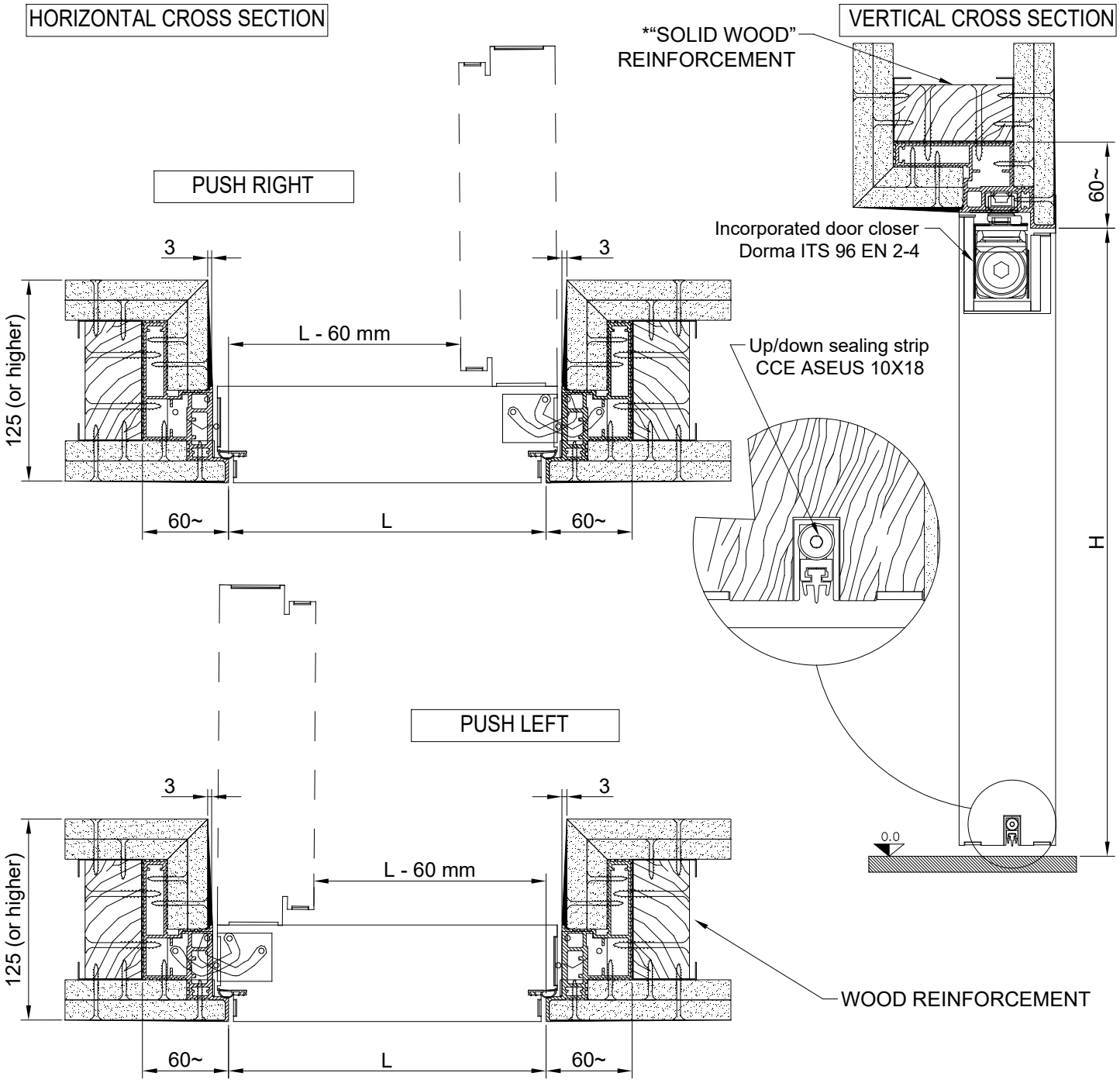
5

Fill the empty spaces between the aluminium frame and the rough wall with cement mortar, taking care not to cause any movement. Wait for the mortar to dry.



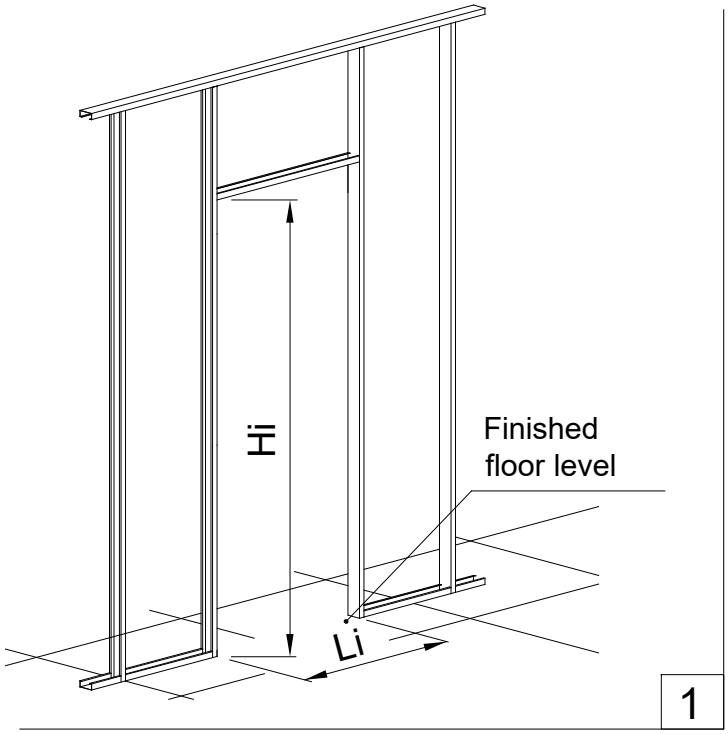
6

Apply fine mesh in the position shown in the illustration. Proceed with the application of the plaster. Strictly keep to the plaster line determined by the frame itself. **Important: overlapping the plaster line represented by the aluminium frame would negatively affect the correct functioning of the panel and cancel the aesthetic flatness effect between wall and panel. Important: do not remove the stiffening spacers until the plaster has set.**



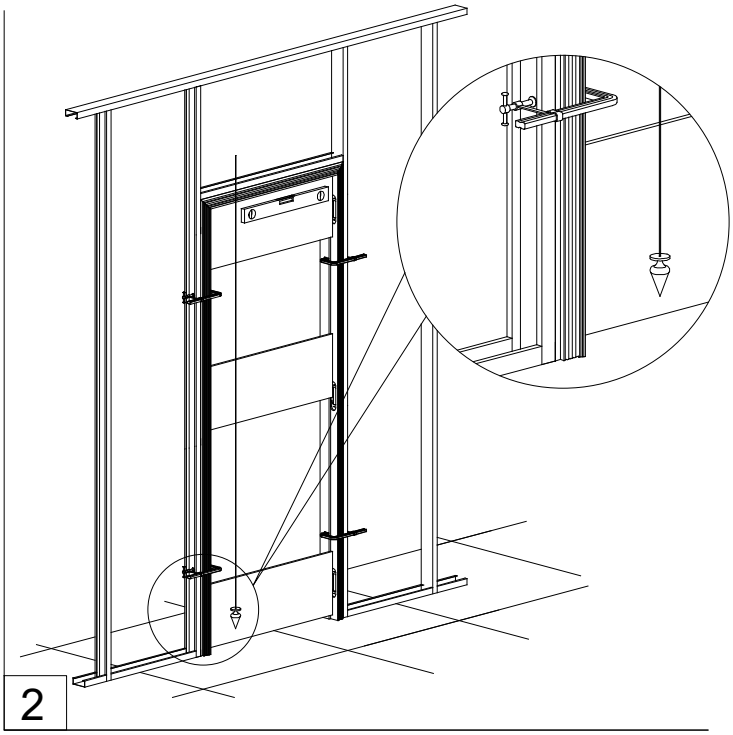

The wall must have a fire resistance greater or equal to that of the installed product (Rei_30 - Rei_60).

In addition, special precautions must be taken for the **mechanical resistance such as the insertion of additional solid wood uprights and crosspieces** with a thickness of at least 45 mm and **deep enough to cover the entire area**.




1

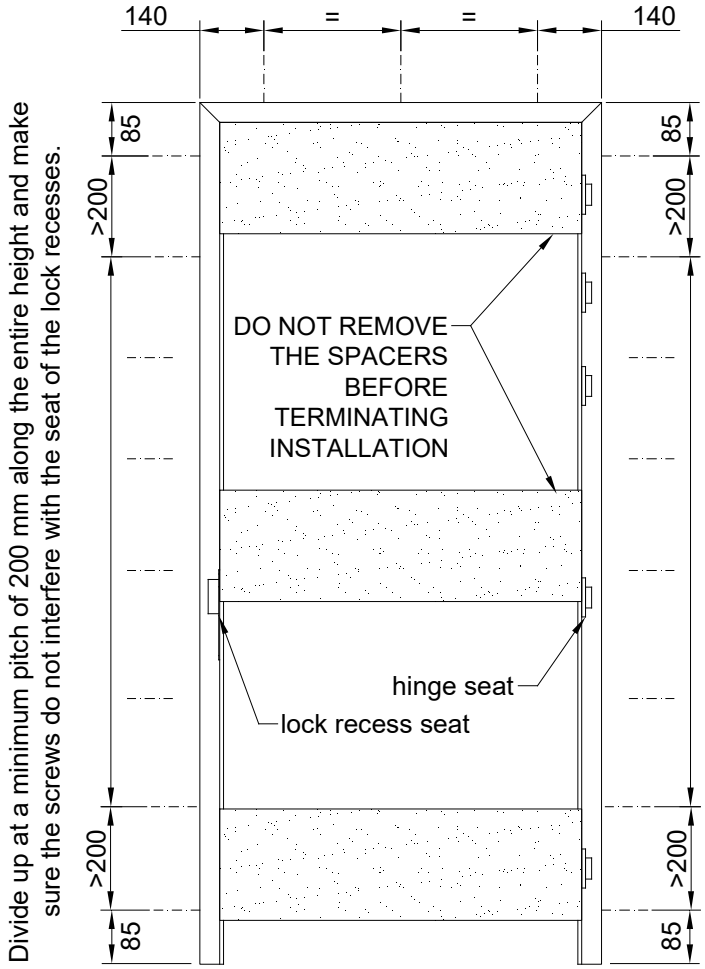
Make the compartment to accommodate the frame as shown on the previous page. Prepare the wooden blocks at the perimeter of the structure to ensure mechanical resistance to door frame installation.

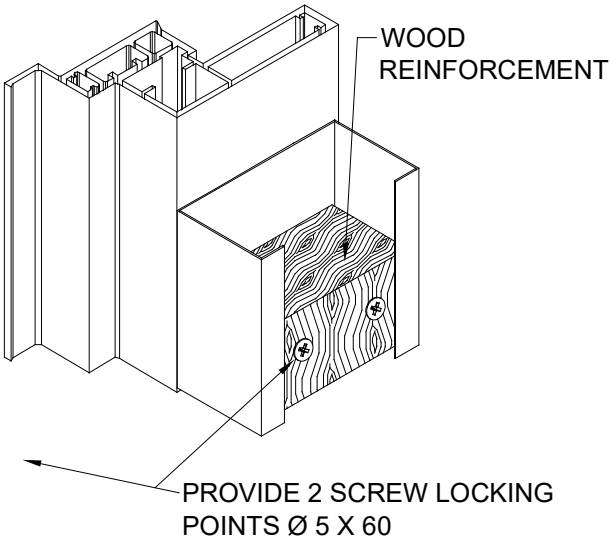


2

Position the frame making sure the plumb line and the surface are aligned. Align the frame to the created compartment, secure it with clamps, and again check the alignment of the plumb line and surface. Secure the frame with screws along the vertical uprights and the upper crosspiece.

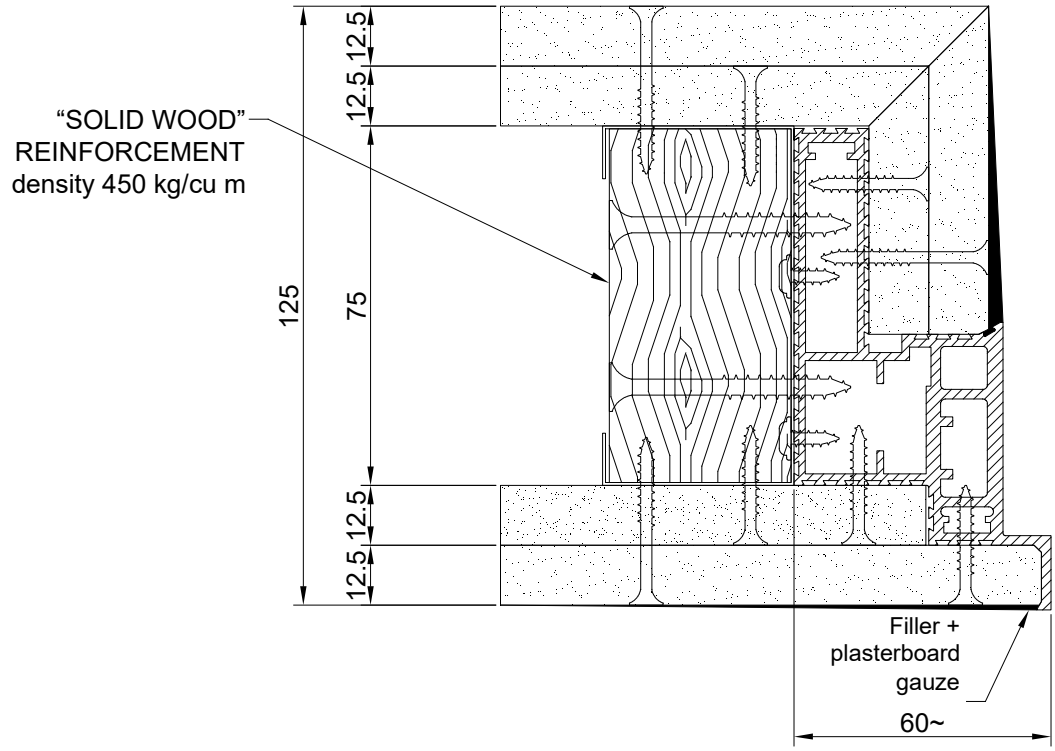
**IMPORTANT: The lower base of the frame must be flush with the finished floor.**

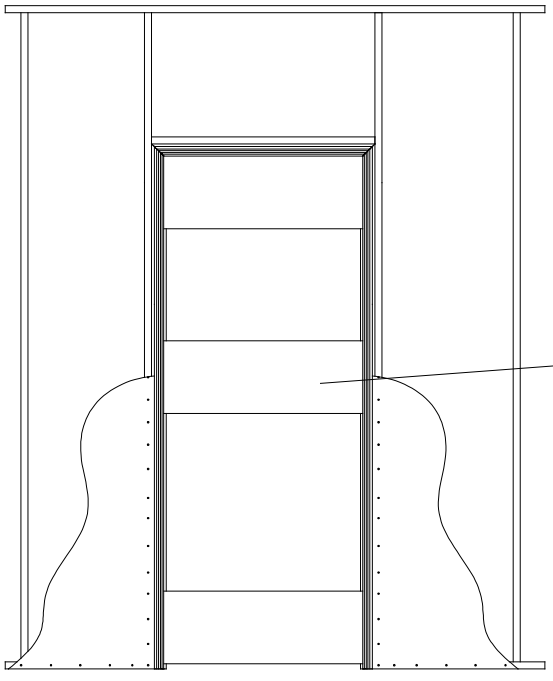


## Metal framework reinforcement

For the mechanical resistance, special precautions must be taken such as the insertion of additional solid wood uprights and crosspieces at least 45 mm thick and deep enough to cover the whole area.

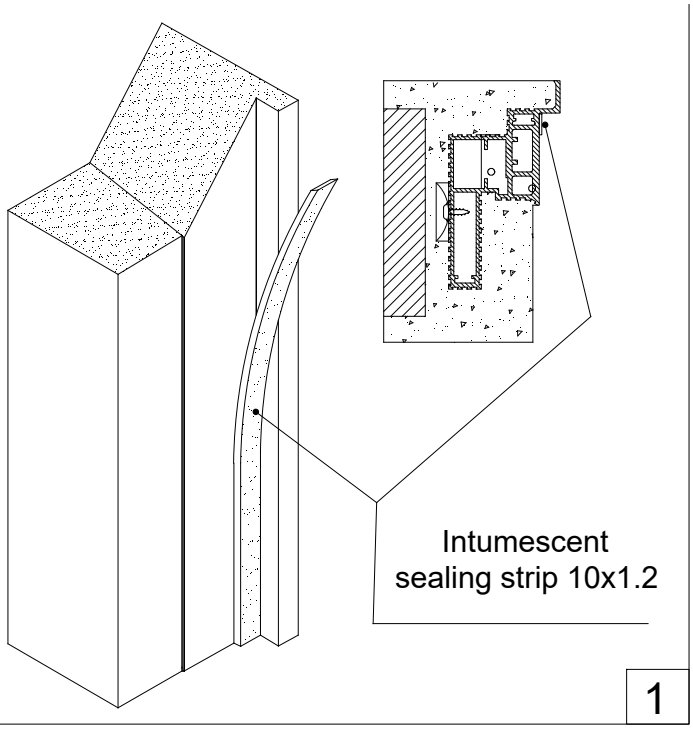


Position the plasterboard sheets, fasten them with screws to the frame and plasterboard structure.

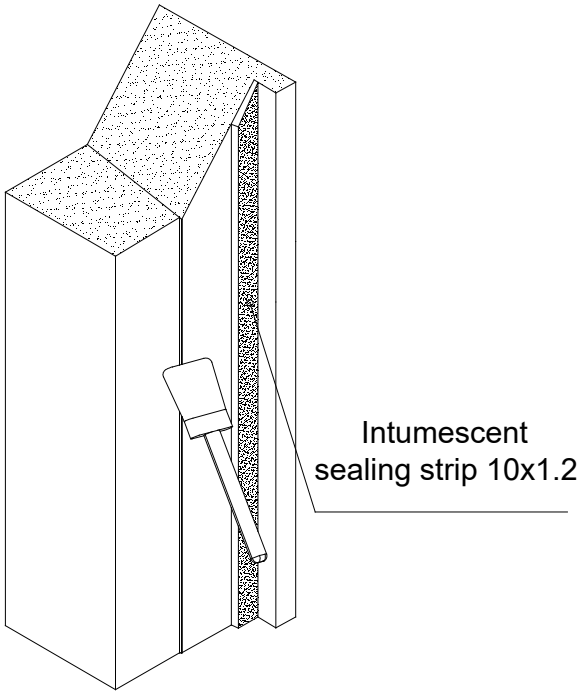
Spacers

DO NOT REMOVE THE SPACERS



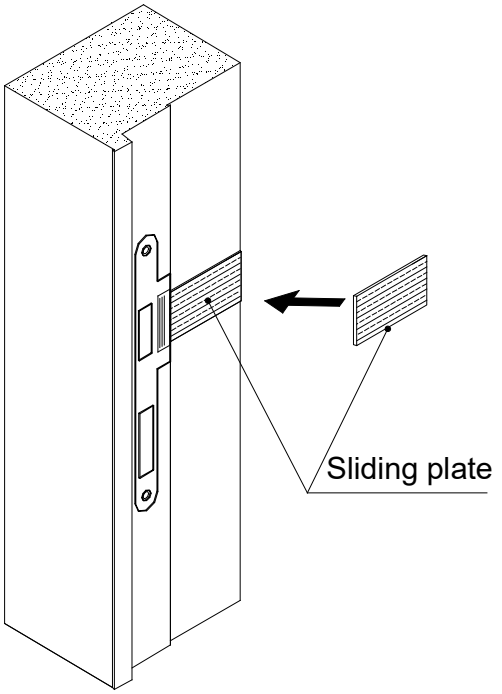

1

Remove the wooden spacers. Fill the screw holes. Clean any concrete splashes off the aluminium frame.
**Apply** the 10x1.2 mm intumescent sealing strip **around the entire frame perimeter.**



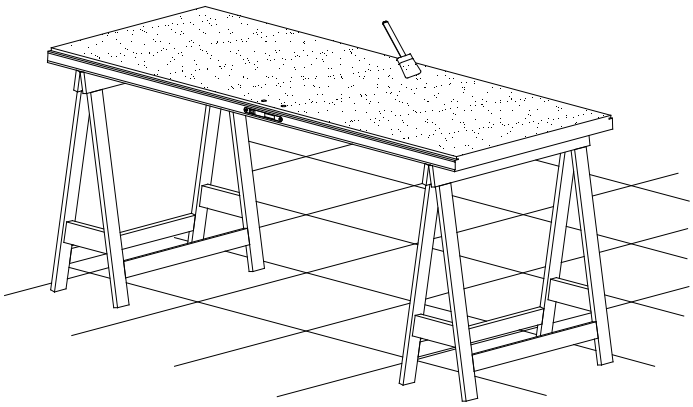

2

Proceed with the colouring. Apply a first coat of suitably diluted cementite, taking care **to protect the intumescent sealing strip with rubberized paper. Important: avoid heavy thicknesses or accumulations of paint which could negatively affect panel movement.**



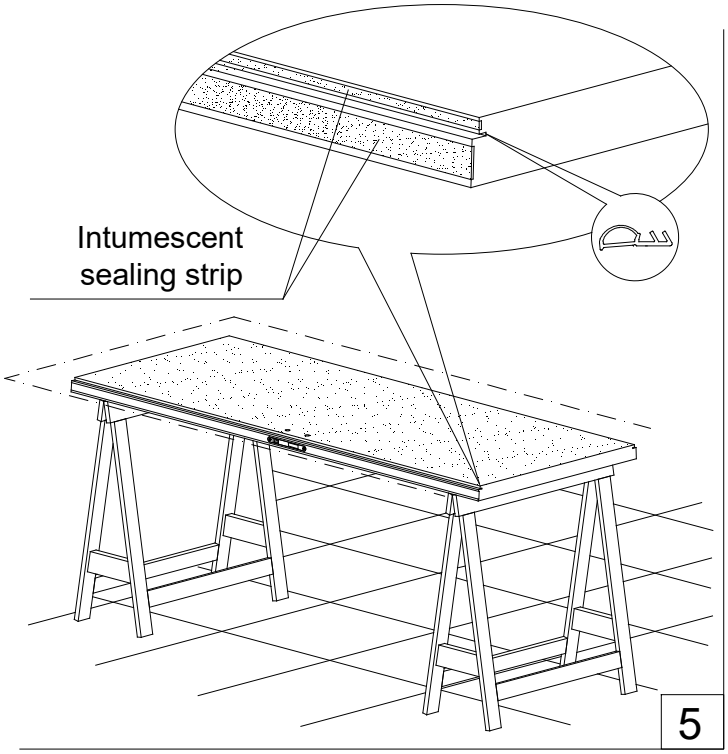

3

Place the sliding plate (using silicone or mastic) close to the lock recess already installed in the aluminium frame using a suitable adhesive.



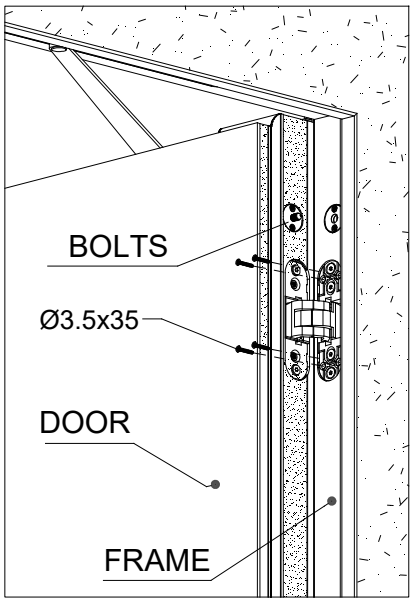
4

Clean the panel thoroughly and finish with a light coat of paint. **Important:** Every type of application (e.g. painting, wallpaper application, etc.) must always be carried out **on both sides in equal measure.**
Apply adhesive paper to cover the lock, intumescent sealing strip, Dorma door closers, hinges and "Firebolt" bolts.
**Important: Avoid heavy thicknesses or accumulations of paint at the edges, as these could negatively affect panel movement.**



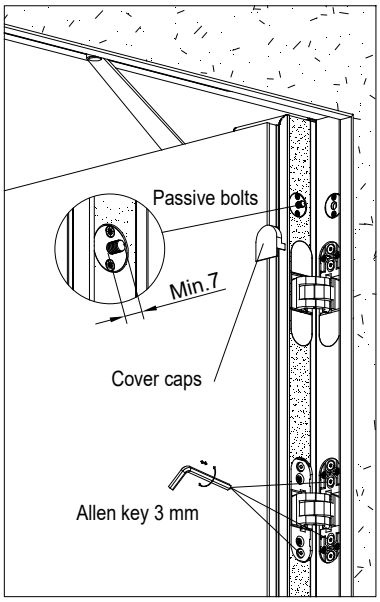

5

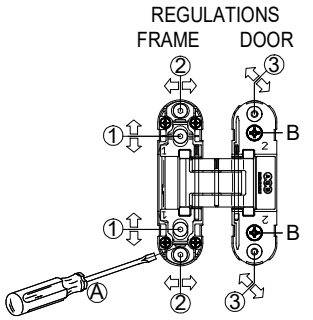
Proceed to fit the closure seals to the door perimeter.




6

Position the panel at the hinge holes on the frame.
Fasten using the screws provided.



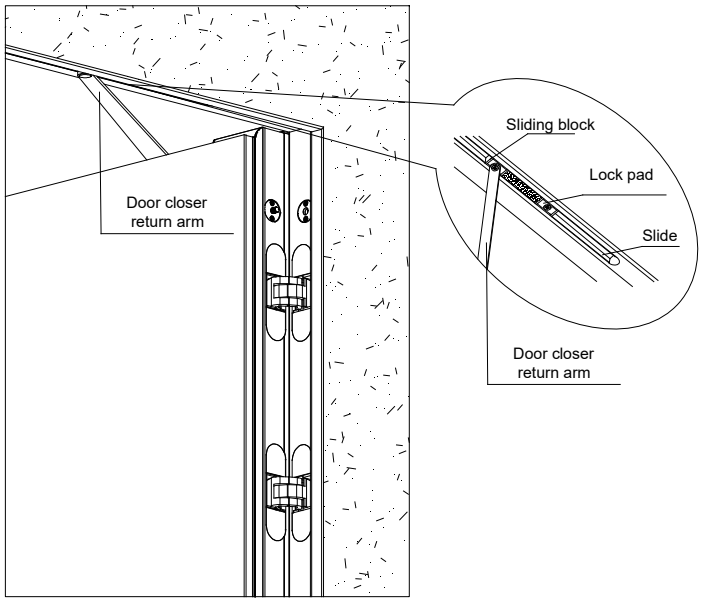

Make the following adjustments one at a time using a 3 mm Allen key:

- Vertical adjustment ±2 mm: loosen the screws (1) to obtain the desired adjustment using a slotted screwdriver (A). When the operation is finished secure the screws.
- Pressure adjustment ±1 mm: loosen the screws (2).
- Horizontal adjustment ±1.5 mm: adjust the screws (3) after loosening the fixing screws (B).

7

Once the door has been fitted, very carefully and with a smooth and regular movement, perform a door opening and closing cycle to check everything is in order.
Carry out the following checks to ensure the gaps on the four sides are regular. The envisaged doores are:

- hinge side from 1 to 6 mm;
- lock side/top side from 1 to 6 mm;
- lower side from 4 to 10 mm;
- the height of the strike plate corresponds to the lock level;
- the door must not rub on the floor, even when fully open;
- make sure the passive bolts (hinge side) protrude by at least 7 mm.




8

Remove the protective film covering the slide, screw up the door closer return arm using the screw supplied with the sliding block.
Set the door at 90° for opening, position and lock the pad to limit the opening.
Follow the manufacturer's instructions when adjusting the door closer.

HANDLE INSTALLATION
Fit the handles according to the instructions provided by the accessory manufacturer and contained in the accessory box.

# USE AND MAINTENANCE BOOKLET

Foreword

The purpose of this manual is to provide useful information and guidance for the maintenance and proper use of X122 products. This manual must be read together with the installation instructions before installing and doing any kind of job. All documentation must be carefully looked after by the user and made available for installation, maintenance, repair and restoration work. All the mentioned operations must only be performed by professional operators. The product has been designed in compliance with the essential requirements of both active and passive safety.

General notes

Dear Customer,

You have purchased a Scrigno product. We trust that you will appreciate its high quality and functional standards, achieved thanks to a production process that combines modern technology with the finest traditional carpentry. The certifications for fire resistance according to UNI EN 1634-1 are the guarantee of a product process which meets the strictest product standards.

We kindly ask you to store the delivered materials protected from atmospheric agents, in covered and dry premises, not exposed to the sun.

Intended use

The product is not designed to separate the indoor climatic conditions from the outdoor climatic conditions of a building and/or to complete its closure.

Maintenance

In accordance with Ministerial Decree 21.06.2004 Article 3 paragraph 4, maintenance of fire-resistant doors is mandatory and is the responsibility of the user. According to the same Decree Article 2 paragraph 2, maintenance must be performed at least every six months. The conditions of use must be taken into account when drawing up the maintenance plan. **The cycles indicated in the following table are purely approximate and the user must determine the right schedule according to the conditions of use of the material. Non-compliant use and lack of maintenance are the main causes of breakage of the closure components.**

We therefore warmly recommend:

- Cleaning only with a damp cloth using neutral detergents if necessary;
- Not forcing door opening/closing in the event of an obstacle or if for any reason the door is blocked; try to understand the causes of the blockage and remove them without damaging the door;
- not blocking the door opening/closing by means of wooden wedges / various obstacles, but only with electromagnets or electromagnetic holding devices controlled by a smoke detection unit;
- **not unlocking the doors manually if they are blocked by an electro-magnetic hold-open device;**
- the door is equipped with a door closer: do not pull the door when closing to speed it up: you risk completely breaking the lock;
- **not opening the door by more than 90°; always make sure the elements of the closure or the environment do not hinder smooth opening. It is highly advisable to use floor stops which are the responsibility and at the charge of the user;**
- not bumping the closer with trolleys, stretchers, and any type of material that may damage it;
- if the closer is installed in rooms where a large number of people transit, make sure that such transit is slow and orderly;
- having maintenance carried out regularly by specialised personnel in accordance with the following table.

| Annual cycles | 2500 Cycles per year | | | | 5000 Cycles per year | | | |
|---|---|---|---|---|---|---|---|---|
| Description / schedule in months<br>Maintenance is mandatory every six months.<br>This table is valid for the annual cycles indicated. | Adjustment | Revision | Wear check | Replacement | Adjustment | Revision | Wear check | Replacement |
| Hinge/door closer | 6 | _ | 24 | _ | 3 | _ | 12 | _ |
| Handles | _ | 6 | _ | _ | _ | 3 | _ | _ |
| Doors | 12 | _ | _ | _ | 6 | _ | _ | _ |
| Lock | _ | 12 | _ | _ | _ | 6 | _ | _ |
| Lock engagement operation | _ | 6 | _ | _ | _ | 3 | _ | _ |
| Sealing strips | _ | _ | 6 | _ | _ | _ | 3 | _ |
| Passive bolts | 6 | _ | _ | _ | 3 | _ | _ | _ |