

NEEDED TOOLS FOR STEEL SECURITY DOOR INSTALLATION

- Measuring tape - Hammer /Stone chisel - Trowel
- Spirit level or Square - Pliers - Rubber hammer
- Spanner n. ° 10 - Star Screw drive - Hex Key or “Umbrako”

N.° of the Hex Key	TASK	SEE PAGES.
<i>n.°5</i>	<i>Merging frame to sub-frame</i>	<i>13,14,15</i>
<i>n.°2.5; n.° 6</i>	<i>Hinge adjustment</i>	<i>15</i>
<i>n.° 5</i>	<i>Installing keyway</i>	<i>16</i>
<i>n.° 3</i>	<i>Installing knob and handle</i>	<i>17,18</i>
<i>n.°3</i>	<i>Tuning draught-excluder</i>	<i>19</i>

1 – INSTALLATION OF SUB - FRAME

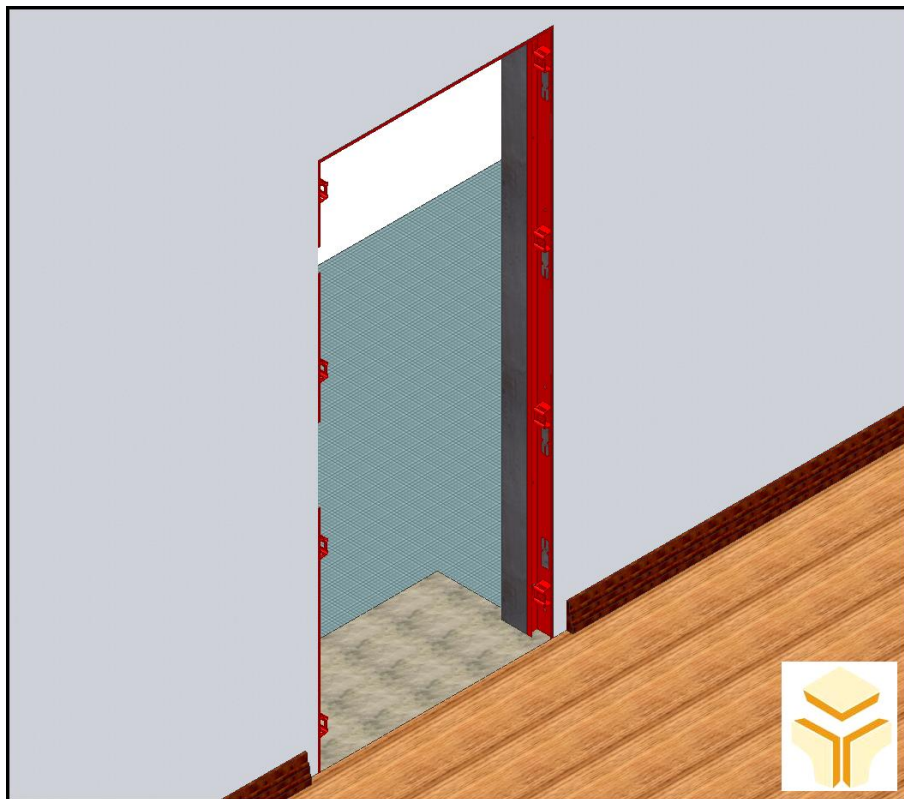


Fig.1 –Installed Sub - Frame

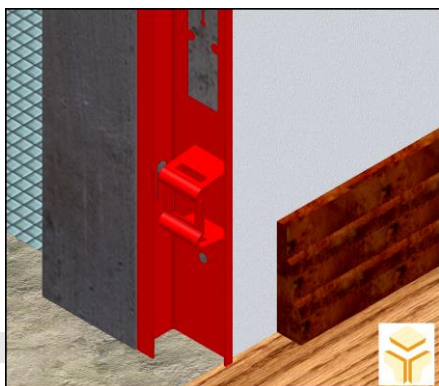
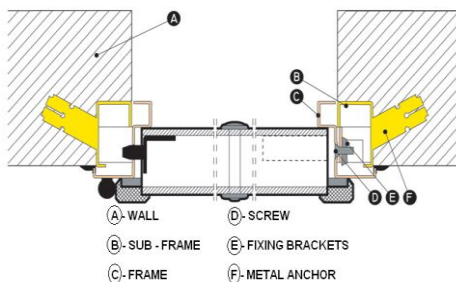


Fig.1.1 – Plaster finishing



Sub - Frame faced to the plaster finishing

BASIC INSTALLATION INSTRUCTIONS

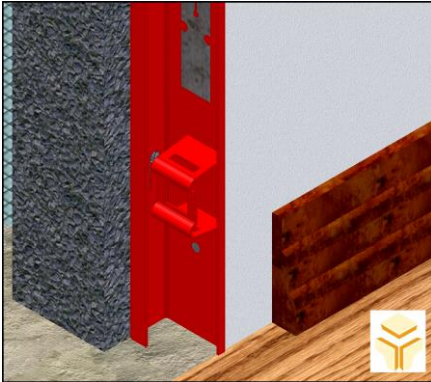
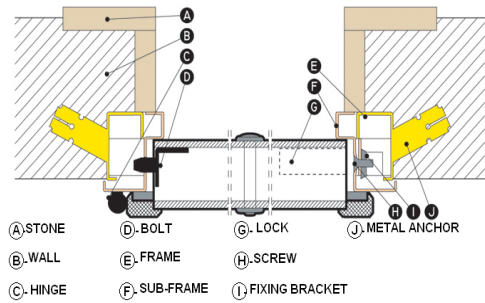


Fig.1.2 – Applied stone finishing



The marble or stone is applied 1 to 2 Cm, closing the span, in the width and height, concerning the Sub - Frame .

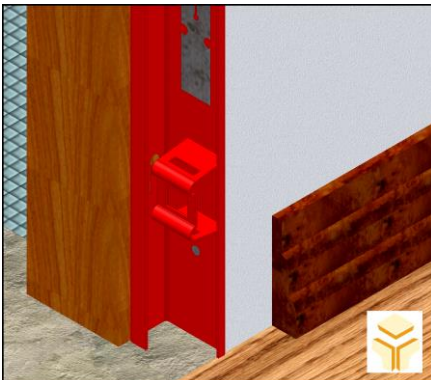
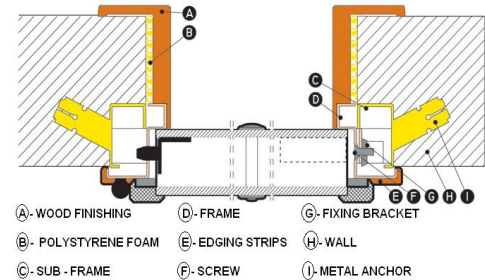


Fig.1.3 – Applied wood finishing



Wood finishing procedure is the same as the one made with stone.

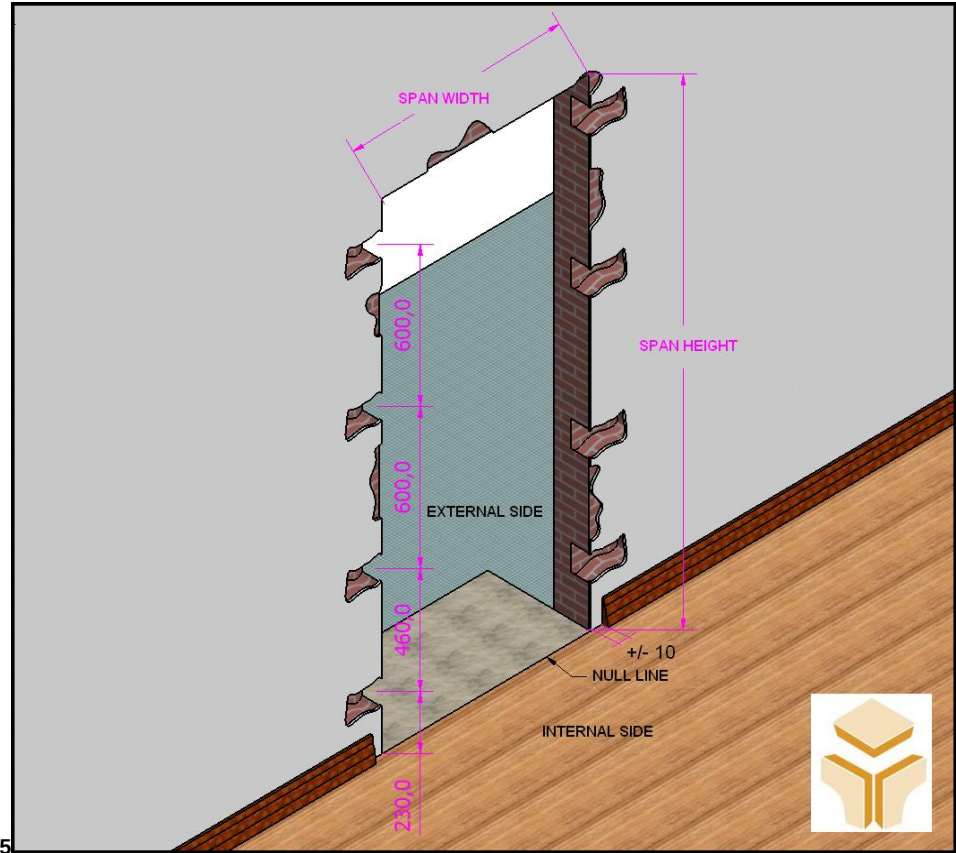


Fig.1.4 – Holes for Sub - Frame introduction.

Open “Tears” In the Wall Following the Measurements Above .

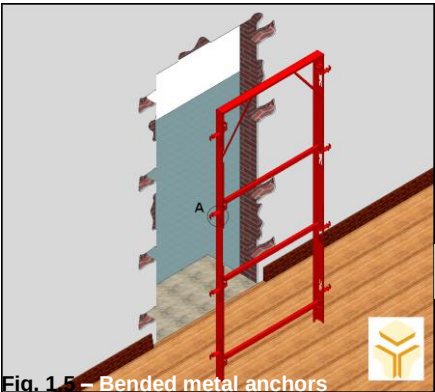


Fig. 1.5 – Bended metal anchors



Bend the metal anchors attached to the sub - frame in an angle of 90° following the figures below:
1.5.1 and 1.5.2.

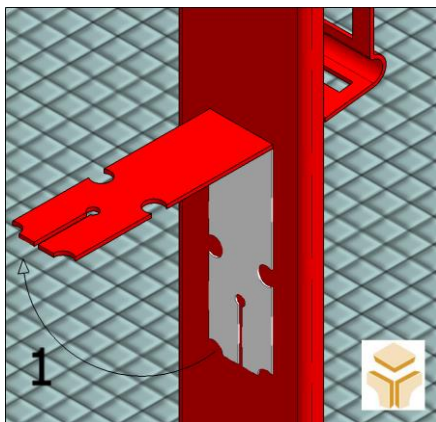


Fig. 1.5.1- Bend the metal anchors

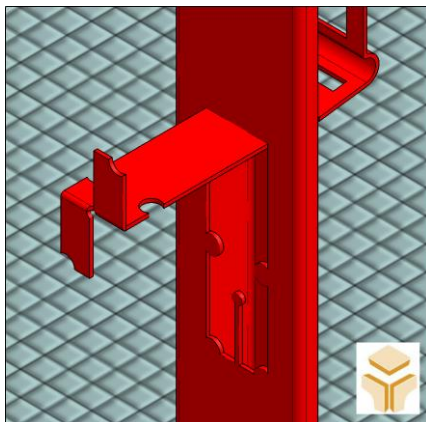


Fig. 1.5.2 - Bend the tip of the metal anchors

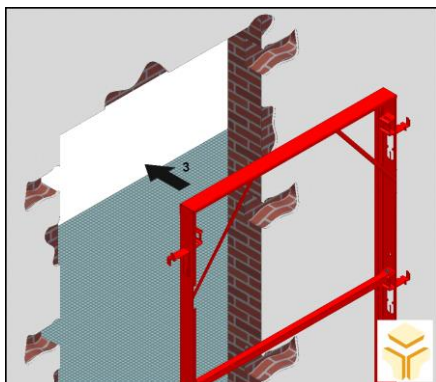


Fig.1.6 – Sub - Frame introduction, put metal anchors inside the tears made in the wall(3)

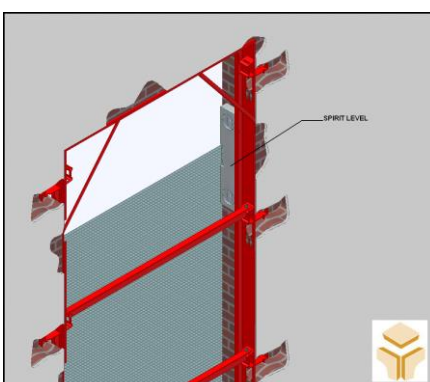


Fig.1.7 – Pose and grade the Sub - Frame



doorstep (fig. 1.7).

Insert the Sub - Frame. The Sub - Frame must be faced with the inside wall. It also must be graded with the



NOTICE: Rubber Hammer

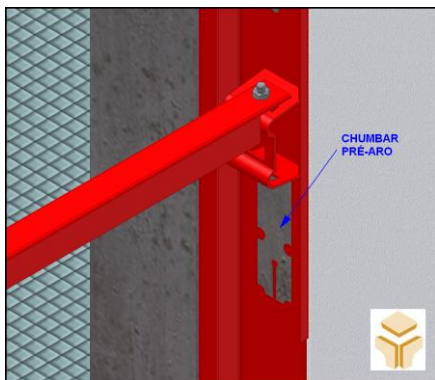
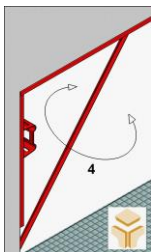


Fig. 1.8 – Plumb the Sub - Frame



Plumb the Sub - Frame. Remove all cement stuck to the Sub - Frame to avoid interference when the time comes to lay down the frame (fig. 1.8).

NOTA: Remove all spacing bars only after the cement is strengthened



Remove the oblique Bars place on the upper sides of the sub - frame with a pliers (fig. 1.9.1). Remove spacing bars, loosening the nuts M6 with a wrench (fig. 1.9.2).

Fig. 1.9.1 – Removing oblique bar (4)

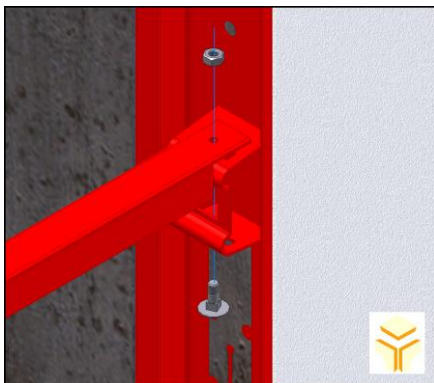


Fig. 1.9.2 - Removing spacing bars

2 – FRAME INSTALLATION

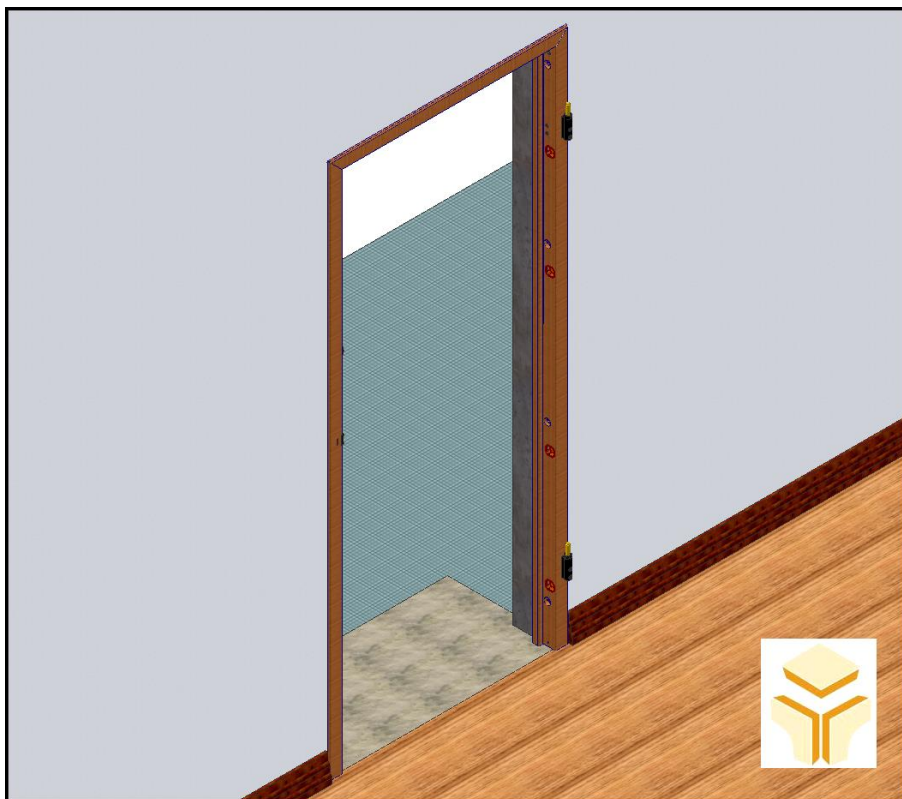


Fig. 2 - Installed Frame



Before installing the frame, remove the ground-floor spacing bar. Insert the 8 fixing brackets (4). Lay the frame (5) leaning it against the inside wall. Check if the screw holes are aligned so that it is possible to merge sub - frame and frame together (figs. 2.1.1, 2.1.2).

NOTE:  - Rubber Hammer

BASIC INSTALLATION INSTRUCTIONS

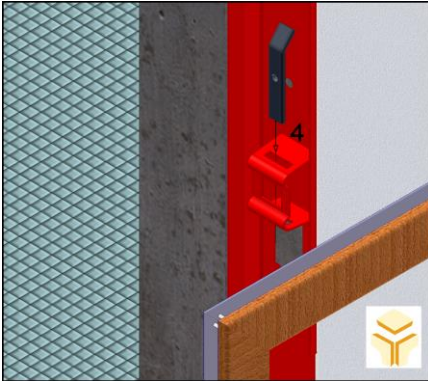


Fig. 2.1.1 - Installing spacing bar (4)

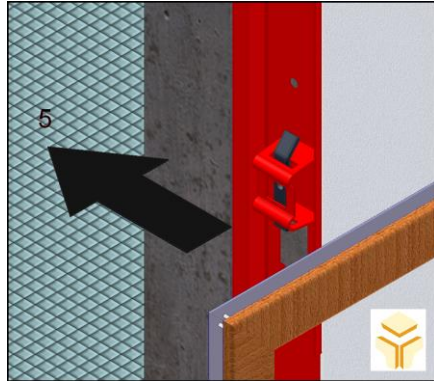


Fig.2.1.2 - Laying Sub - Frame (5)

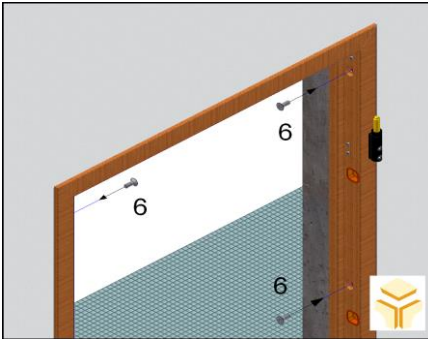
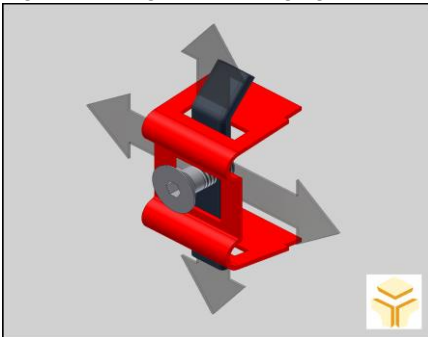


Fig. 2.2 - Fixing screws merging the frame to the Sub - Frame (6)



Fix the 8 screws M8x20 (6) just enough so that it allows either vertical or horizontal movements, so that it can be possible to adjust the Sub - Frame to the Frame (fig. 2.2).



All 8 Screws must be tighten just about 85% to the fixing brackets, so that they (screws) can stir (fig. 2.3) removing all frames slacks.

Fig.2.3. – Combo pre - adjustment:
(screw- fixing bracket- frame)

NOTE: Fix the screw - fixing brackets combo, tighten them more on the hinge side, so that when the time comes to install the door leaf on the hinge the frame do not move/succumb on that side

NOTE:  - Rubber Hammer

3 – DOOR LEAF INSTALATION

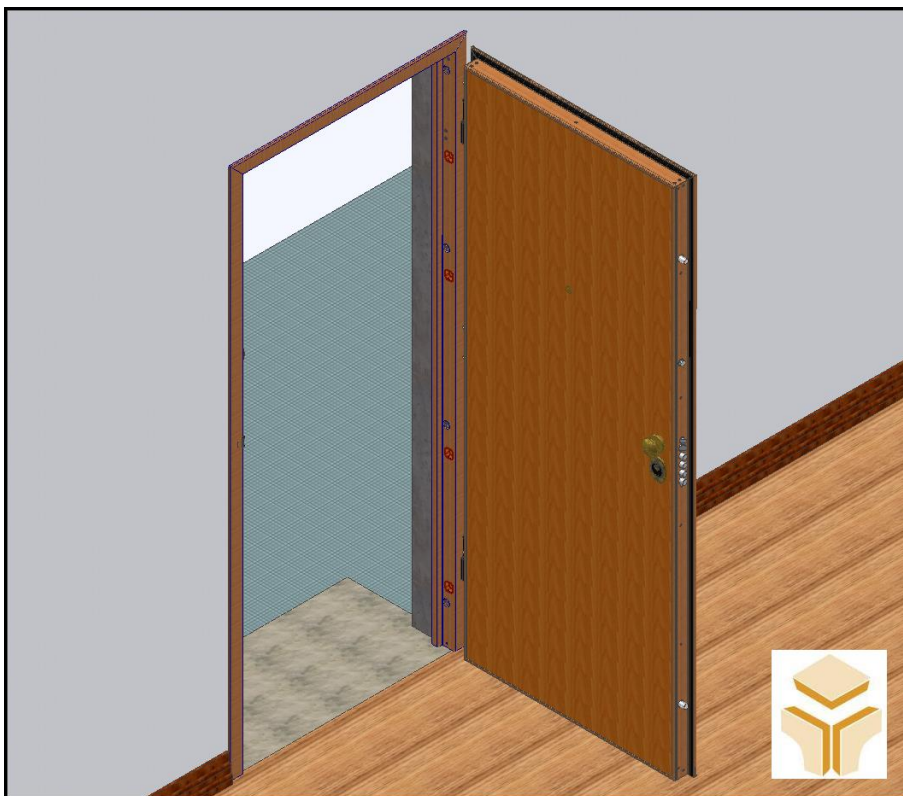


Fig.3 – Installed door

NOTE: The door must be placed very gently on the hinges, avoiding forcing the structure frame, sub - frame.



At this time a final adjustment must be done eliminating any slack still existing and fixing totally the screws M8X20.

BASIC INSTALLATION INSTRUCTIONS

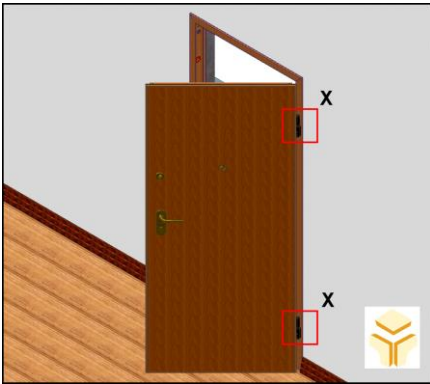


Fig. 3.1 - Hinges (X)

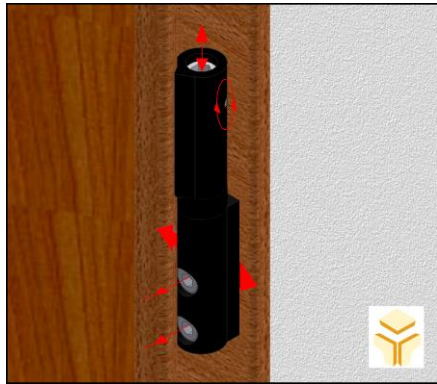


Fig. 3.2 –Door leaf adjustment in height and width



The door leaf must be adjusted in height and width. In height adjusting the bolt that is inside the superior part of the hinge (FIRST UNSCREW THE SMALL LATERAL BOLT Fig. 3.2) and in width moving the lower part of the hinge to the left or right (First unscrew the two screws M8x25 (fig. 3.2))

IMPORTANT – DO NOT TOTALLY UNSCREW THE SCREWS M8x25, OR ELSE, A METAL PLAQUE INSIDE THE DOOR WILL FALL DOWN INSIDE THE DOOR LEAF STRUCTURE

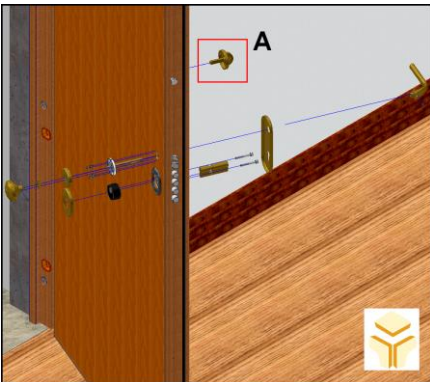
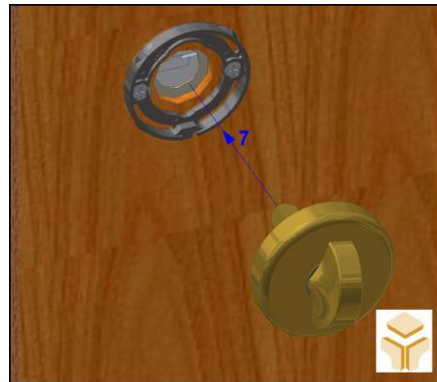


Fig. 3.3 – Installation of the blocking ring for the safety catch (A)



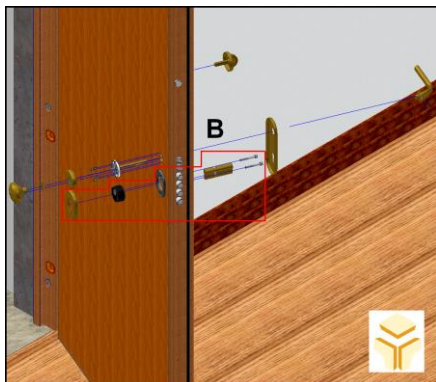


Fig. 3.4 – (B) Assembling furniture



Fig. 3.4.1 - B1 Cylinder introduction (8)

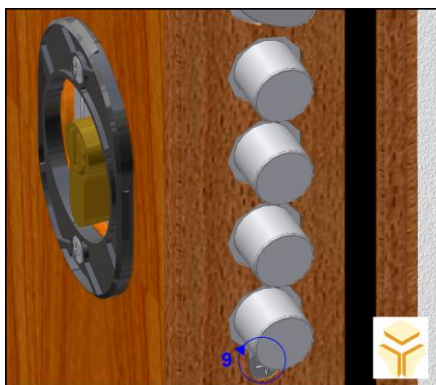


Fig. 3.4.2 – B2 Fixing the cylinder (9)

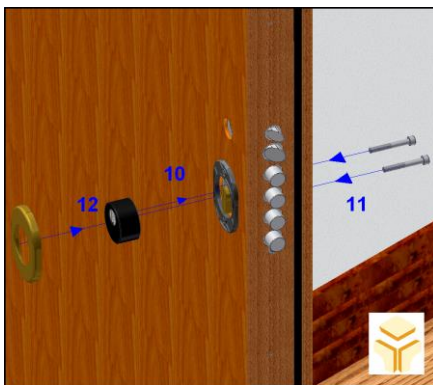


Fig. 3.4.3 – B3 Installing keyway and escutcheon plate (11,10,12)



Introduce the cylinder (8) (fig. 3.4.1) Screw the vice located on the lateral of the door leaf, beneath the lock (9) this is done to hold the cylinder. Introduce Keyway (10). Screw the vices M6x45 holding on the keyway to the door (11). Finally the escutcheon plate on (12), (fig. 3.4.3).

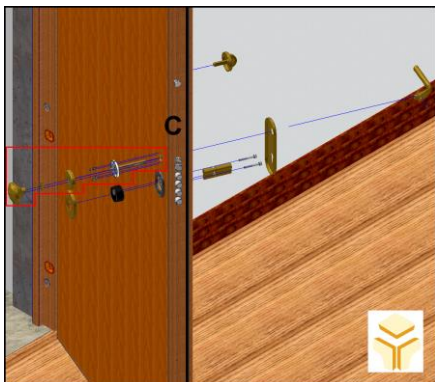


Fig. 3.5 – Assembling Furniture (C)

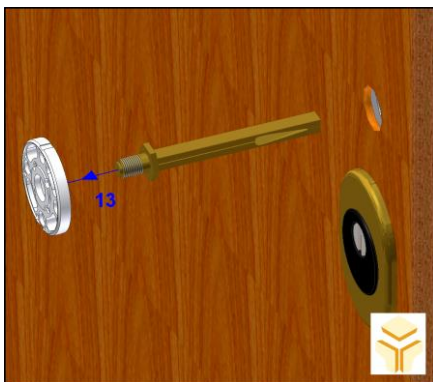


Fig. 3.5.1 – C1 Screwing the holding knob plastic on the square shaft (13)

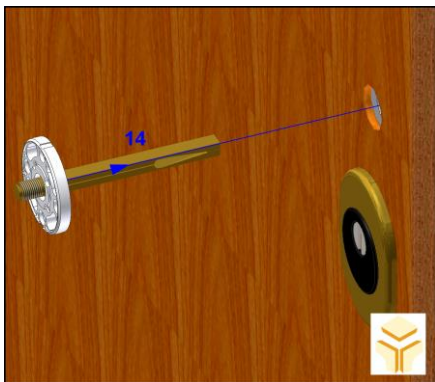


Fig. 3.5.2 – C2 Installing square shaft (14)

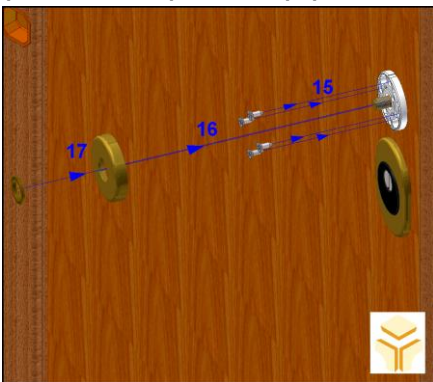


Fig. 3.5.3 – C3 Fixing holding plastic and escutcheon plate of the knob (15) (16) e (17)

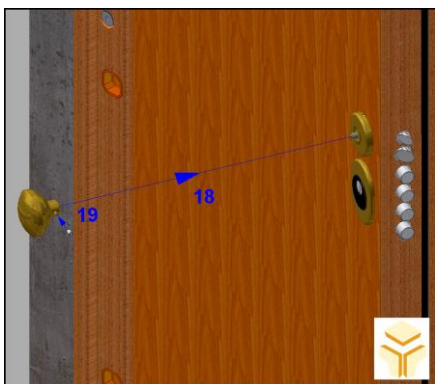


Fig. 3.5.4 – C4 Installing Knob



Introduce the square shaft in the hole. Be sure that the side of the square shaft which contains a slot is turned to the side of the lock/latch bolt (13). Then screw all pieces together (15). Put on the escutcheon plate (16) (17) (3.5.1, 3.5.2, 3.5.3). Finally place the knob on and screw the small bolt on the side of the knob (18) e (19).

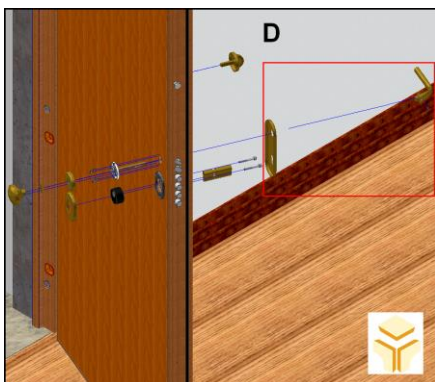


Fig. 3.6 - Installing Furniture (D)



Fig. 3.6.1 - D1 Installing Handle



Install the handle escutcheon (20). Fix the handle and screw the small bolt on the side (21) e (22) (fig. 3.6.1).

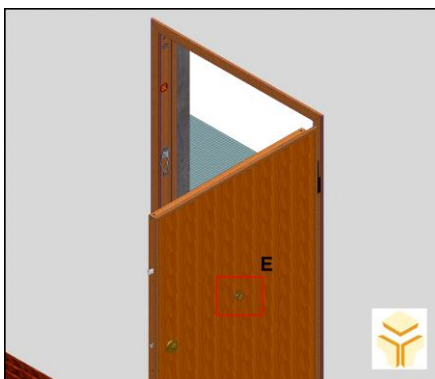


Fig. 3.7 – Installing Peephole (E)



If the peephole isn't installed you should proceed as follows:

Make a hole with Ø 16 mm in the middle of the panels at the height of 1450mm. Assemble the two half-parts of the peephole (23)(24), and screw them one to the other (25) (fig. 3.7.1).

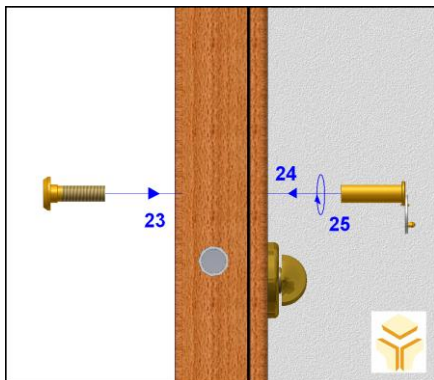


Fig. 3.7.1 – E1 Fixing peephole (Detail)

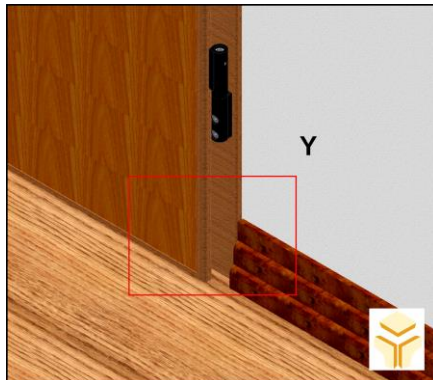


Fig. 3.8 – Draught excluder (Y)

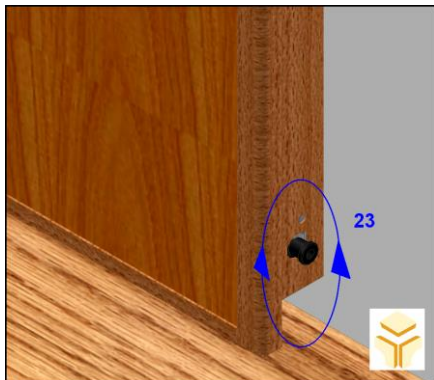


Fig. 3.8.1 – Tuning draught excluder



Tune the draught excluder screwing or unscrewing the bolt on the inferior side of the door leaf (23) (fig.3.8.1) so it can be activated, when the door is closing. That way the all structure will be sealed

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