CELEGON
SMART OPENING SYSTEM

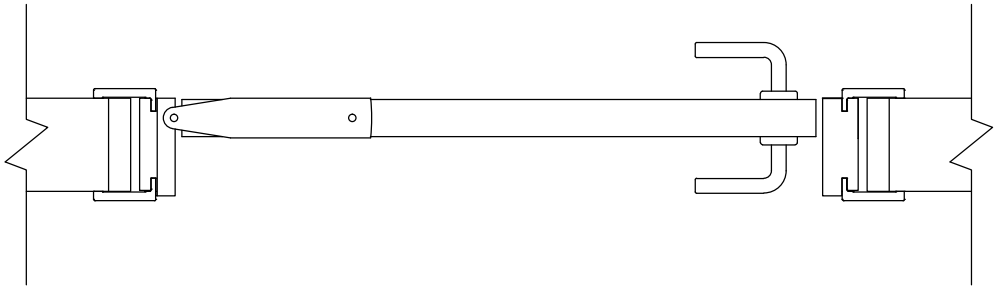
ERGON S40
LIVING

HOME

technical construction and installation manual

swinging sliding door with connecting rod in the panel

STRAIGHT FRAME



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INTRODUCTION

ERGON LIVING **S/40** hardware is designed to be applied only on hollow-cored panels, for internal doors for interior residental use, that are at least 40 mm thick and weight no more than 70 kg,.

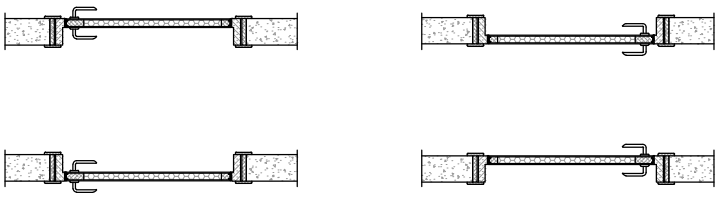
To guarantee reliability and convenience of use, by now tested over time on many thousands of manufactured models, the components used come from the already tested ERGON Community model.
The ERGON system have passed rigorous durability tests on repeated opening and closing (100,000 cycles) in accordance with the European standard EN 1191/00 at the CATAS research and development laboratory.
Since the connection rod is inside the door leaf and not in the door jamb, standard jambs can be used with the ERGON S/40 version, by doing some simple work as indicated in this manual.

The standard finishes offered for the ERGON S/40 version are silver and black, and, in order to reduce to a minimum the impediments of the door leaf during movement, three different types of arm are offered:
- "*Base*" particularly suitable for *LFM (wall hole opening)* from 800 to 1100 mm;
- "*Small*" particularly suitable for *LFM (wall hole opening)* from 610 to 800 mm;
- "*Large*" particularly suitable for *LFM (wall hole opening)* from 1100 to 1450mm.

According to specific requirements, with the ERGON S/40 hardware, the door can be made in such a way that, as regards the thickness of the wall, the door leaf can be installed in any position. However, to simplify the explanation, the two extreme positions are described by using the terminology found in this manual:

1) **"centered door"** *when the panel is positioned in the centre of the wall;* this solution offers the advantage that the construction of the door is indipendent of its installation because, since the door is centered and can be opened in both ways, the installation orientation could even be decided at the time of installation without making any modifications to the door;

2) **"oriented door"** *when the panel is placed near one of the two sides of the wall*; in this case the construction of the door must consider how it will be installed and therefore its orientation.



With reference to the passage widths the ERGON S40 version is offered in various standard sizes for each type (*Base, Small, Large*). However, if a suitable type is used, intermediate sizes can also be obtained by shortening the track and the track cover (page 17).
As regards the actual passage height, fixed-size or 5 cm-adjustable rods are offered (page 18), If different sizes from the standard ones offered are necessary, a special kit can be ordered with which, by shortening the connection rod (page 19), the required size can be abtained.

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FRAME WITH STRAIGHT JAMB

With this type of casing, we advise using the magnetic lock (AGB or BONAITI).

ADVANTAGES

- Simple construction: it's possible to use a simple flat casing, normally used to cover the wall where installation of a door was not previously planned.

- Aesthetics: The door jamb near the lock is visually appealing in that no element of the lock or its release is visible.

LIMITS

- Dimensions: when frame with straight jamb is used, there are some thickness wall limits which can change with the application of the different arms (BASE - SMALL - LARGE):

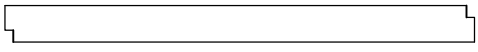
-for BASE arm version see at pag. 5-6
-for SMALL arm version see at pag. 7-8
-for LARGE arm version see at pag. 9-10

- Functional: The magnetic lock was created to be used on doors with traditional closures and only one single-swing door. In the ERGON® system with double swing doors, the magnet is convenient if the door is accompanied by hand to the closing point. Instead, if the door is pushed, even slightly, the magnet in the closing position does not have time to react and the door does not stop, but continues on its course.

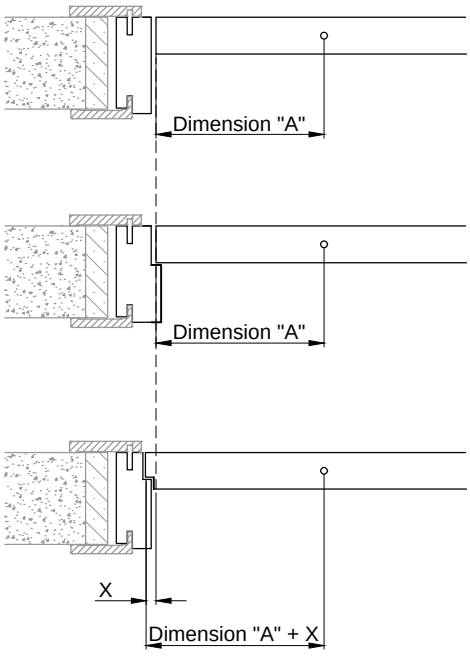
RABBET DOOR WITH ONE-WAY OPENING

In some home's rooms can be more suitable using rabbet doors with ERGON, this is possible by putting some rabbets on the vertical door sides. In this way there's not more the double-way opening, but there is a better acustic isolation inside the room by using a gasket for the tightness.

In the drawings on the right side there are two examples (fig. 2-3) of ERGON rabbet door. In order to prepare the rabbets on the panel and the jamb (fig.3), it's necessary that both of them are specular (fig. 4), furthermore in order to maintain the insertion point of the connecting rod on the panel in the right position, it's important to pay attention to the dimension "X" which has to be added to the "Dimension A", mentioned at pag.13 of the present manual instruction.



(Fig. 4)



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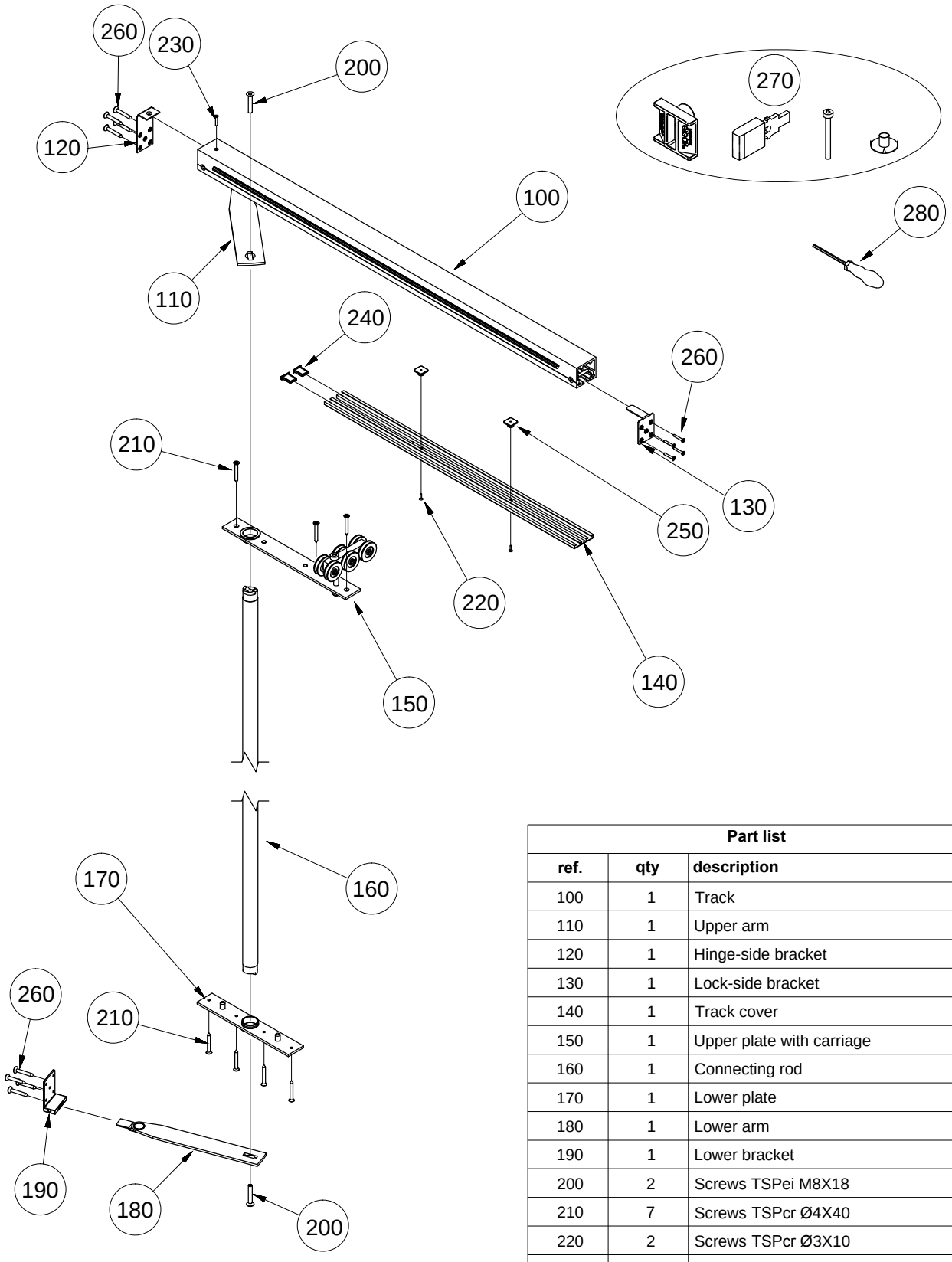

Part list		
ref.	**qty**	**description**
100	1	Track
110	1	Upper arm
120	1	Hinge-side bracket
130	1	Lock-side bracket
140	1	Track cover
150	1	Upper plate with carriage
160	1	Connecting rod
170	1	Lower plate
180	1	Lower arm
190	1	Lower bracket
200	2	Screws TSPei M8X18
210	7	Screws TSPcr Ø4X40
220	2	Screws TSPcr Ø3X10
230	1	Screws TSPei M5x 12
240	2	Track cover cap
250	2	Track cover installation insert
260	12	Screws TSPcr Ø3,5x30
270	1	Mediana evolution lock set
280	1	Hexagonal screwdriver mm 2,5

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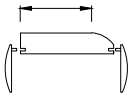
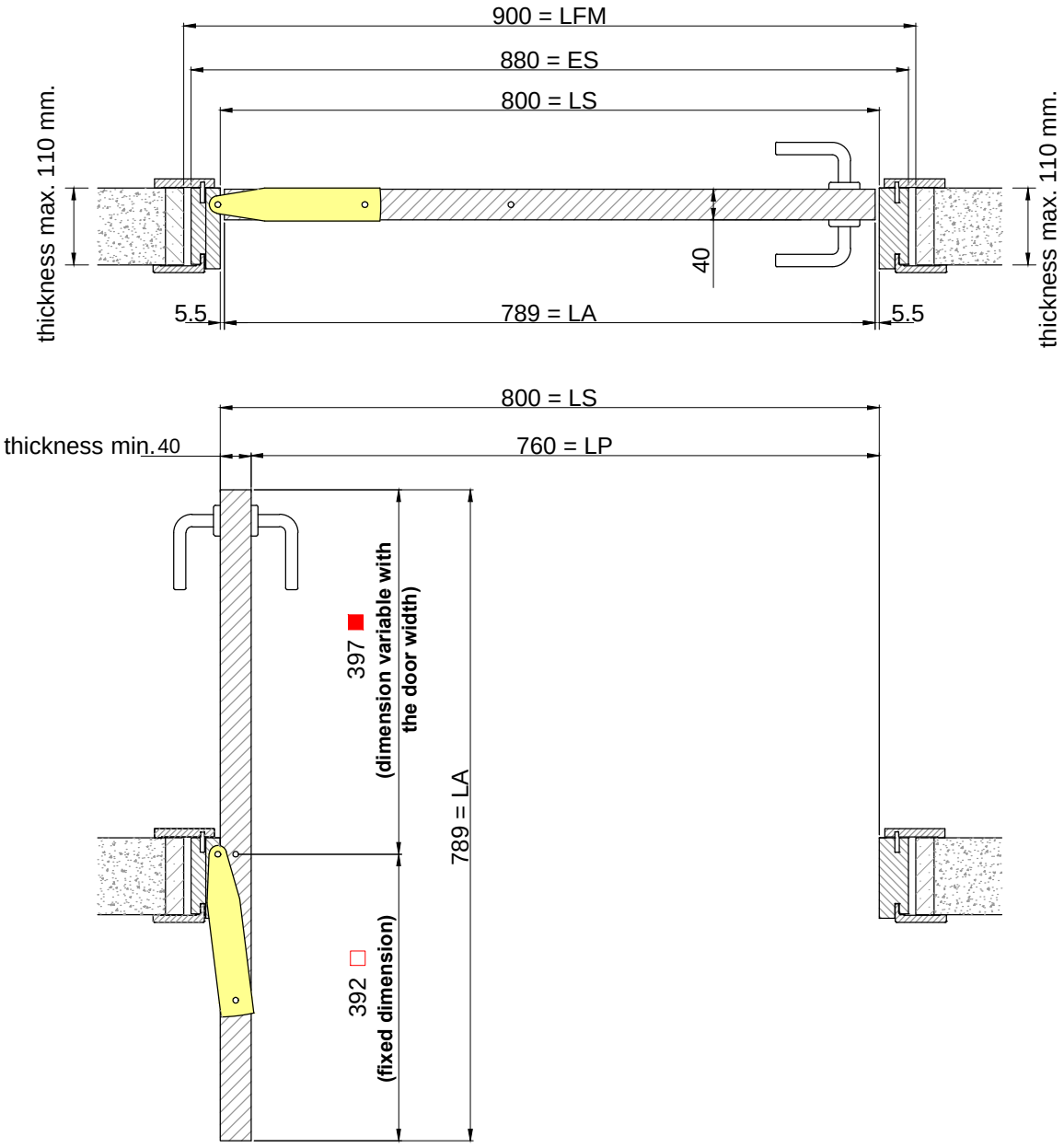
Wall thickness up to 110 mm



If rounded jambs are used, the above thickness wall dimension must be calculated only on the plane surface and not on the rounded side.



BASE ARM

LEGEND	
LP	= Passage dimension (LFM - 140)
LA	= Door Leaf width (LFM - 111)
LS	= Door jamb opening (LFM - 100)
ES	= Outer jamb (LFM - 20) = length of the upper crossbeam
LFM	= Wall hole width

The dimensions on the technical drawing refer to the 900 wall hole width and it is the dimension in which the encumbrance of the open door is symmetric.

ENCUMBRANCE DOOR			
LFM wall hole width	**LP** passage dimension	**LA** door leaf width	max. encumbrance of the open door
700	560	589	392 □
750	610	639	392 □
* 800	660	689	392 □
* 850	710	739	392 □
* 900	760	789	397 ■ □
* 950	810	839	447 ■
*1000	860	889	497 ■
*1050	910	939	547 ■
*1100	960	989	597 ■

* Available standard dimension, it is possible to have other dimension, even intermediate dimensions (see page 1 7) by adjusting the track.

See in evidence the minimum measeure possible by using "Soft Opening" kit pages 27-28

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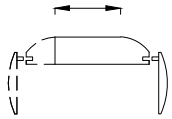
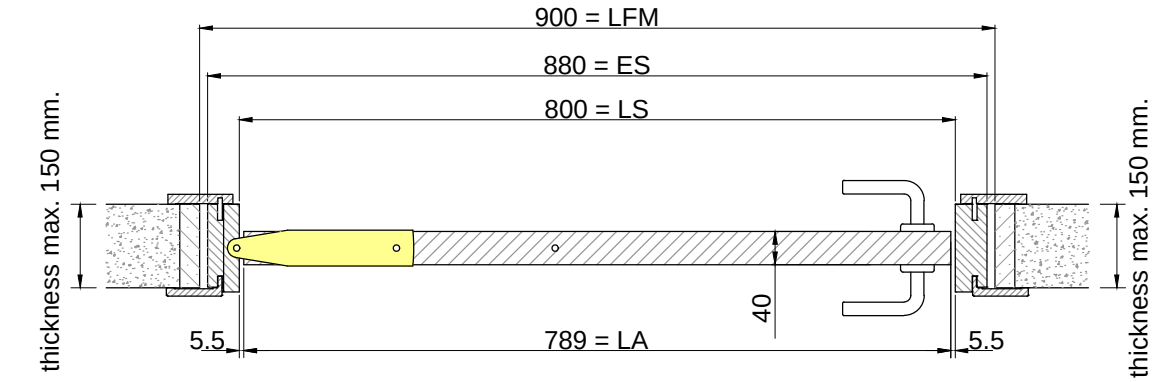
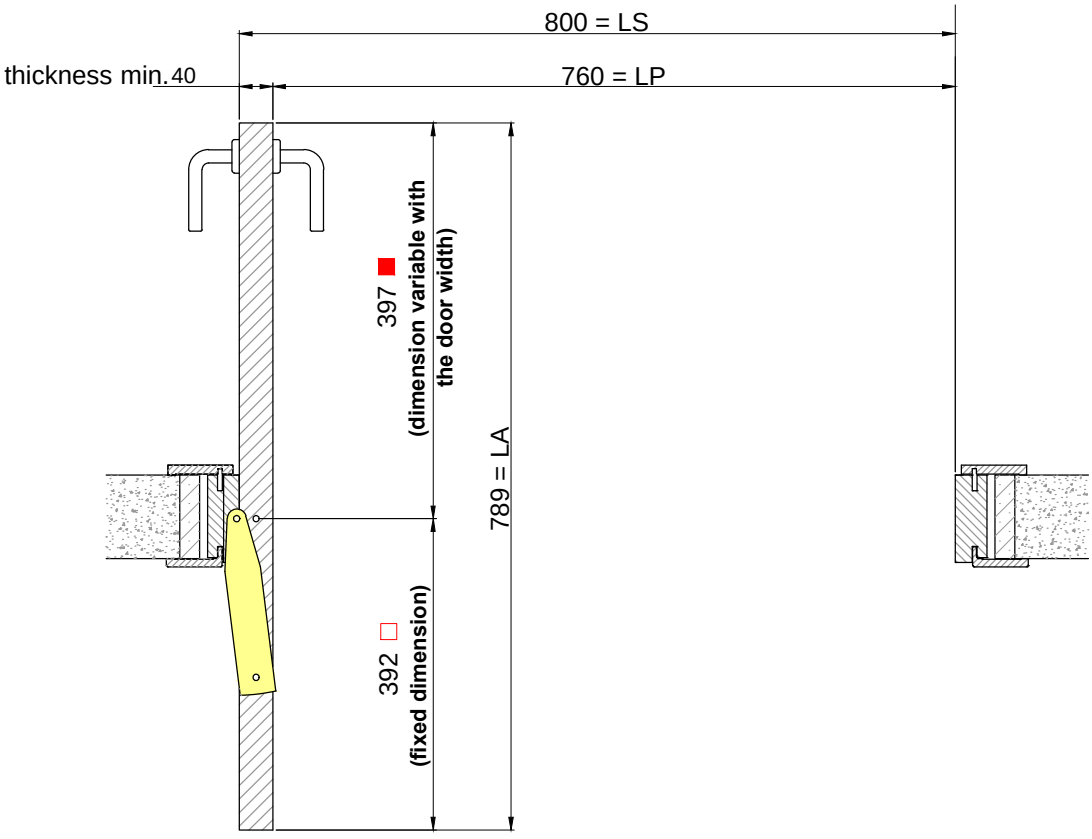
Wall thickness up to 150 mm



If rounded jambs are used, the above thickness wall dimension must be calculated only on the plane surface and not on the rounded side.





BASE ARM

ENCUMBRANCE DOOR			
LFM wall hole width	**LP** passage dimension	**LA** door leaf width	max. encumbrance of the open door
700	560	589	392 □
750	610	639	392 □
* 800	660	689	392 □
* 850	710	739	392 □
* 900	760	789	397 ■ □
* 950	810	839	447 ■
*1000	860	889	497 ■
*1050	910	939	547 ■
*1100	960	989	597 ■

* Available standard dimension, it is possible to have other dimension, even intermediate dimensions (see page 1 7) by adjusting the track.

LEGEND

LP = Passage dimension (LFM - 140)
LA = Door Leaf width (LFM - 111)
LS = Door jamb opening (LFM - 100)
ES = Outer jamb (LFM - 20) = length of the upper crossbeam
LFM = Wall hole width

The dimensions on the technical drawing refer to the 900 wall hole width and it is the dimension in which the encumbrance of the open door is symmetric.

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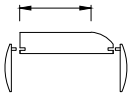
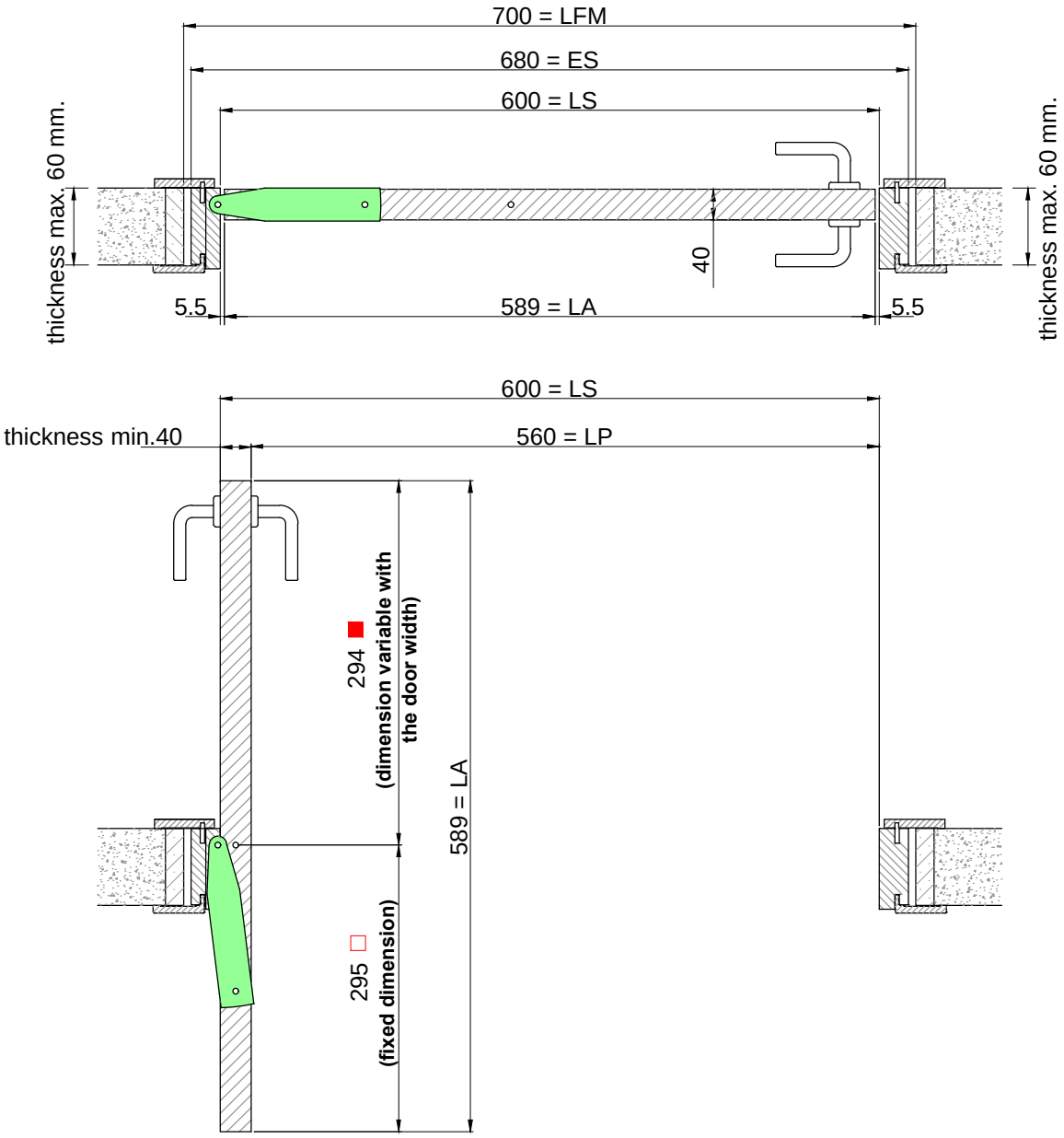
Wall thickness up to 60 mm



If rounded jambs are used, the above thickness wall dimension must be calculated only on the plane surface and not on the rounded side.



SMALL ARM

LEGEND	
LP	= Passage dimension (LFM - 140)
LA	= Door Leaf width (LFM - 111)
LS	= Door jamb opening (LFM - 100)
ES	= Outer jamb (LFM - 20) = length of the upper crossbeam
LFM	= Wall hole width

The dimensions on the technical drawing refer to the 700 wall hole width and it is the dimension in which the encumbrance of the open door is symmetric.

ENCUMBRANCE DOOR

LFM wall hole width	**LP** passage dimension	**LA** door leaf width	max. encumbrance of the open door
610	470	499	295 □
650	510	539	295 □
700	560	589	295 ■ □
750	610	639	344 ■
⋆800	660	689	394 ■

⋆ Available standard dimension, it is possible to have other dimension, even intermediate dimensions (see page 1 7) by adjusting the track.

See in evidence the minimum measeure possible by using "Soft Opening" kit pages 27-28

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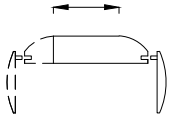
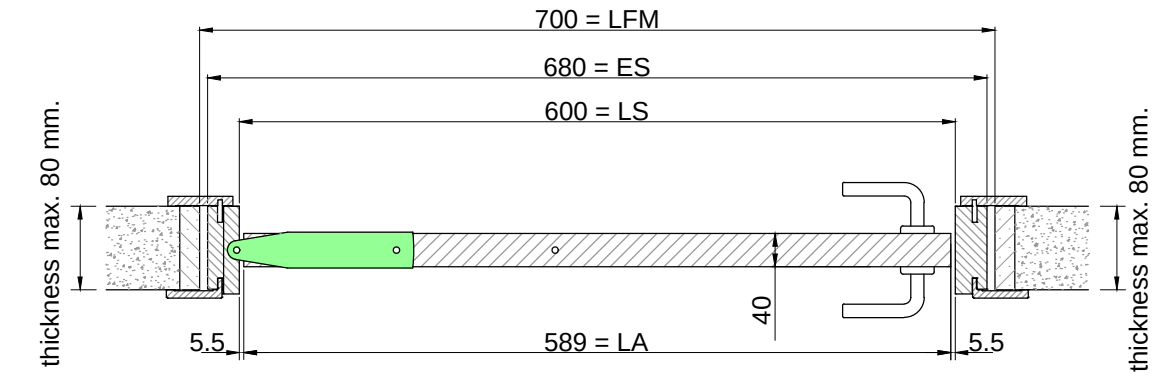
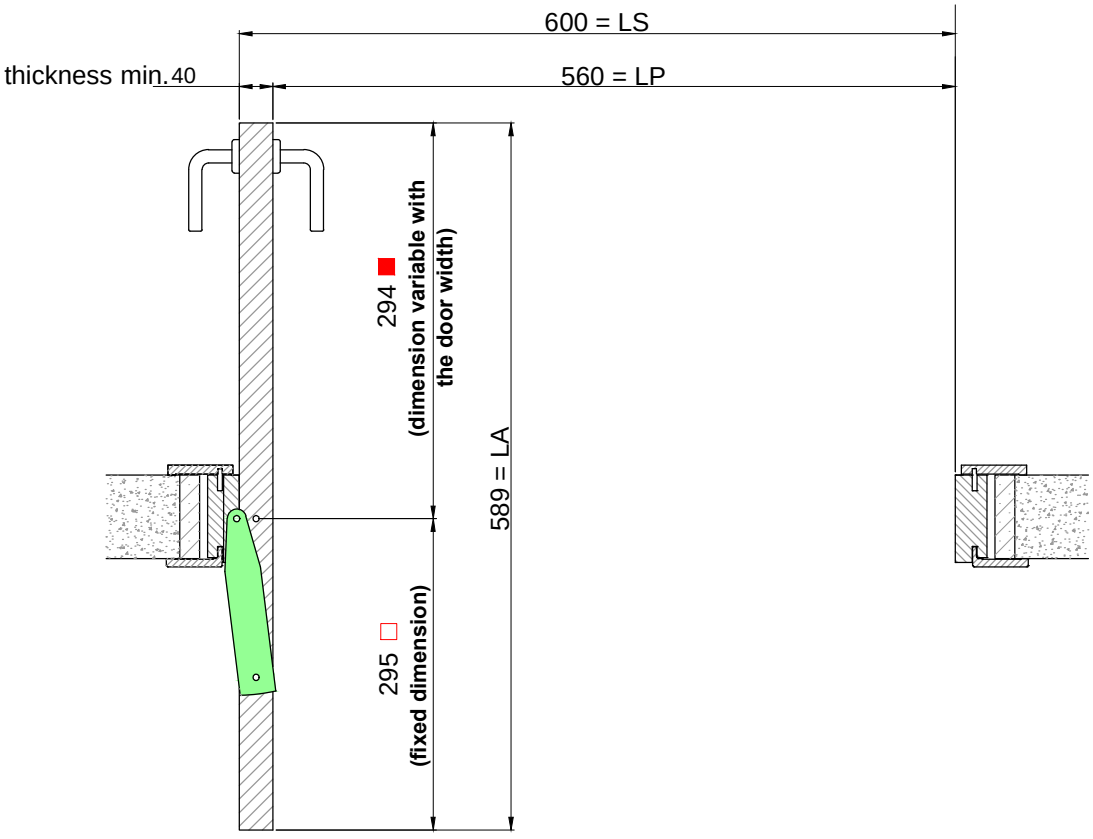
Wall thickness up to 80 mm



If rounded jambs are used, the above thickness wall dimension must be calculated only on the plane surface and not on the rounded side.

SMALL ARM





LEGEND	
LP	= Passage dimension (LFM - 140)
LA	= Door Leaf width (LFM - 111)
LS	= Door jamb opening (LFM - 100)
ES	= Outer jamb (LFM - 20) = length of the upper crossbeam
LFM	= Wall hole width

The dimensions on the technical drawing refer to the 700 wall hole width and it is the dimension in which the encumbrance of the open door is symmetric.

ENCUMBRANCE DOOR			
LFM wall hole width	**LP** passage dimension	**LA** door leaf width	max. encumbrance of the open door
610	470	499	295 □
650	510	539	295 □
700	560	589	295 ■ □
750	610	639	344 ■
⋆800	660	689	394 ■

⋆ Available standard dimension, it is possible to have other dimension, even intermediate dimensions (see page 1 7) by adjusting the track.

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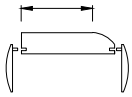
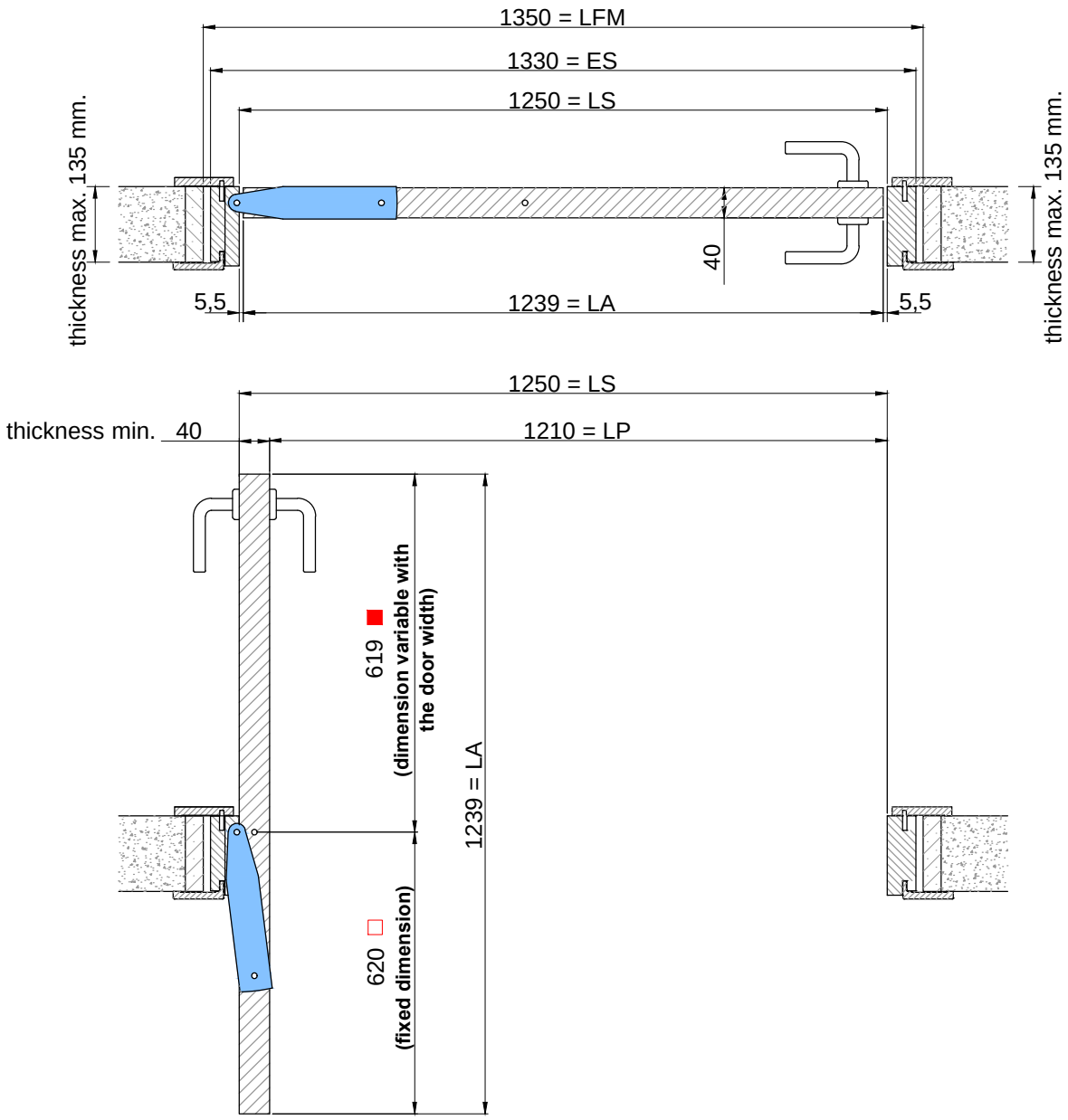
Wall thickness up to 135 mm



If rounded jambs are used, the above thickness wall dimension must be calculated only on the plane surface and not on the rounded side.



LARGE ARM

LEGEND
LP = Passage dimension (LFM - 140)
LA = Door Leaf width (LFM - 111)
LS = Door jamb opening (LFM - 100)
ES = Outer jamb (LFM - 20) = length of the upper crossbeam
LFM = Wall hole width
The dimensions on the technical drawing refer to the 1350 wall hole width and it is the dimension in which the encumbrance of the open door is symmetric.

ENCUMBRANCE DOOR			
LFM wall hole width	**LP** passage dimension	**LA** door leaf width	max. encumbrance of the open door
1100	960	989	620 □
1150	1010	1039	620 □
1200	1060	1089	620 □
1250	1100	1139	620 □
*1300	1160	1189	620 □
1350	1210	1239	620 ■ □
1400	1260	1289	670 ■
*1450	1310	1339	720 ■
* Available standard dimension, it is possible to have other dimension, even intermediate dimensions (see page 1 7) by adjusting the track.			

See in evidence the minimum measeure possible by using "Soft Opening" kit pages 27-28

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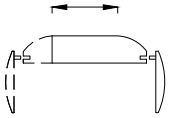
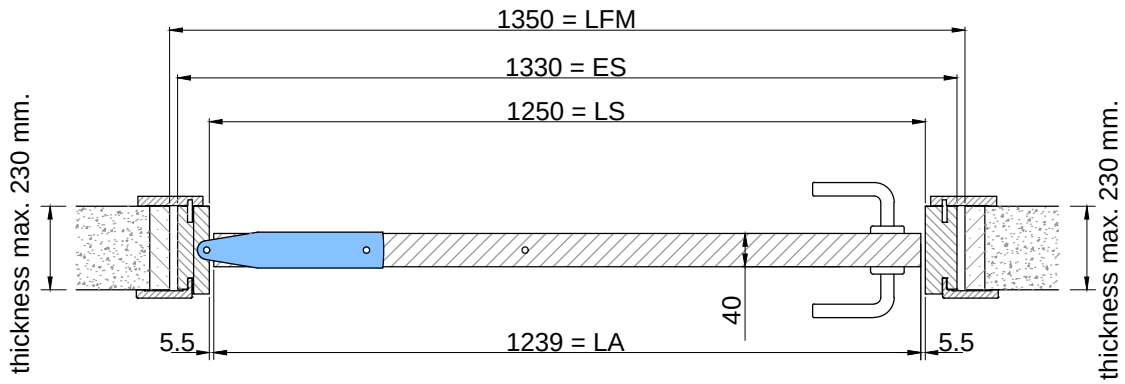
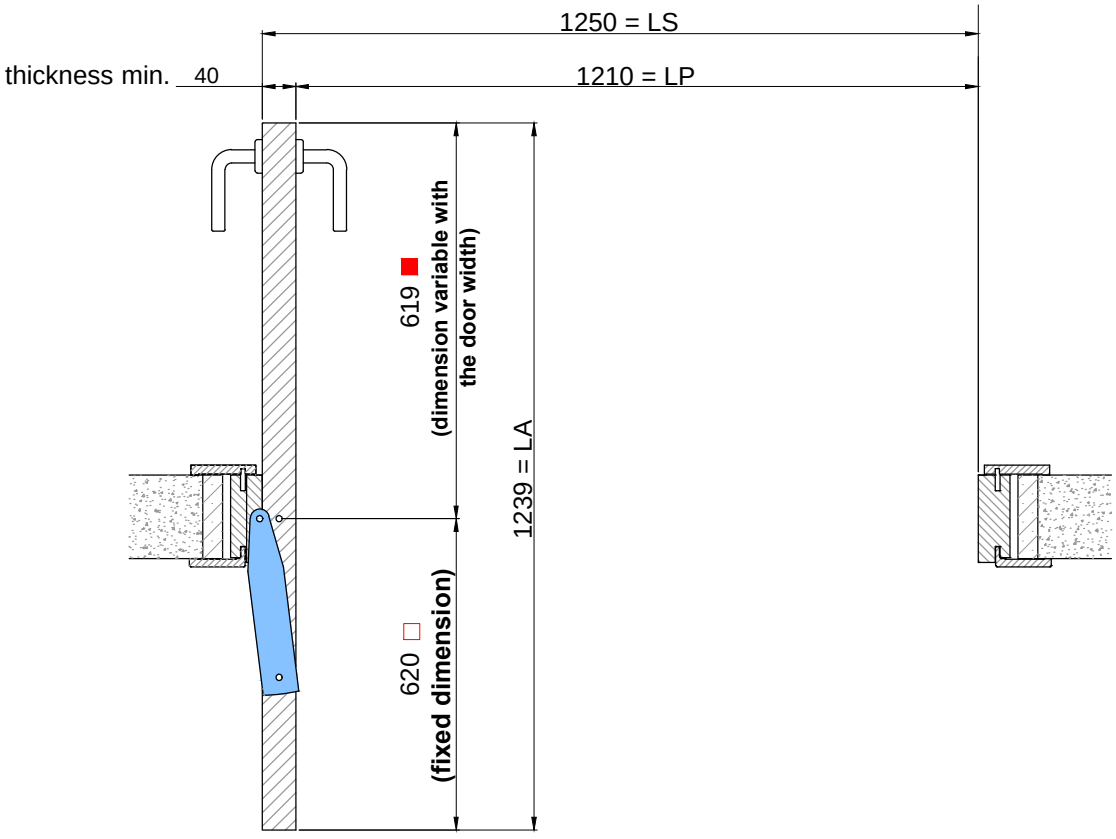
Wall thickness up to 230 mm



If rounded jambs are used, the above thickness wall dimension must be calculated only on the plane surface and not on the rounded side.





LARGE ARM

LEGEND
LP = Passage dimension (LFM - 140)
LA = Door Leaf width (LFM - 111)
LS = Door jamb opening (LFM - 100)
ES = Outer jamb (LFM - 20) = length of the upper crossbeam
LFM = Wall hole width
The dimensions on the technical drawing refer to the 1350 wall hole width and it is the dimension in which the encumbrance of the open door is symmetric.

ENCUMBRANCE DOOR			
LFM wall hole width	**LP** passage dimension	**LA** door leaf width	max. encumbrance of the open door
1100	960	989	620 □
1150	1010	1039	620 □
1200	1060	1089	620 □
1250	1100	1139	620 □
*1300	1160	1189	620 □
1350	1210	1239	620 ■ □
1400	1260	1289	670 ■
*1450	1310	1339	720 ■

* Available standard dimension, it is possible to have other dimension, even intermediate dimensions (see page 1 7) by adjusting the track.

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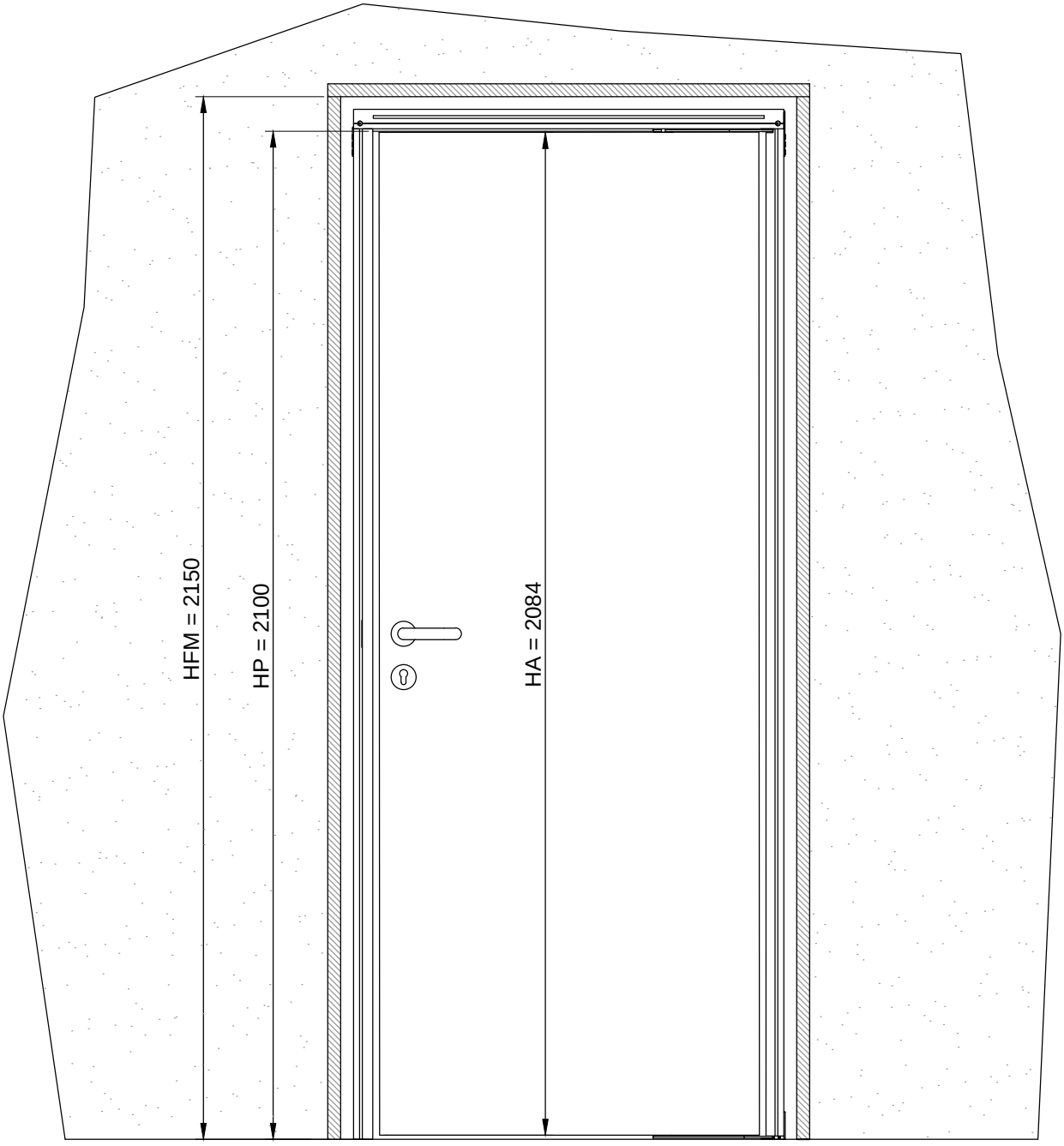

VERTICAL DIMENSIONS			
HFM wall hole height	HP height passage dimension	HA height door leaf	
* 1950	1900	1884	HP = (HFM - 50) HA = (HFM - 66)
* 2000	1950	1934	
* 2050	2000	1984	
* 2100	2050	2034	
* 2150	2100	2084	
* 2200	2150	2134	
* 2250	2200	2184	

* Available standard dimension.
It is possible to have other dimensions, even intermediate dimensions, by purchasing the adjusting rod kit (see page 18) or rod kit with extension (see page 19).
For getting rods in special sizes, kindly contact Celegon S.r.l..

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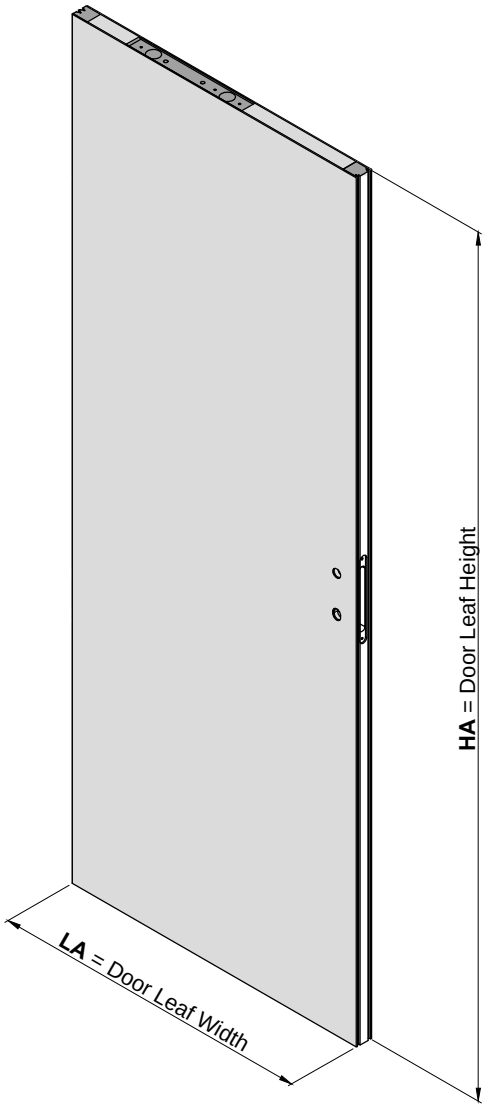

VERTICAL DIMENSIONS			
STANDARD HEIGHT	HP= (HFM-50) HA= (HFM-66)		
	HFM WALL HOLE HEIGHT	**HP** HEIGHT PASSAGE DIMENSION	**HA** DOOR LEAF HEIGHT
	1950	1900	1884
	2000	1950	1934
	2050	2000	1984
	2100	2050	2034
	2150	2100	2084
	2200	2150	2134
	2250	2200	2184

Available standard dimension.
It is possible to have other dimensions, even intermediate dimensions, by purchasing the adjusting rod kit (see page 18) or rod kit with extension (see page 19).
For getting rods in special sizes, kindly contact Celegon S.r.l..

Minimum dimension with "Soft Opening" SMALL arm

Minimum dimension with "Soft Opening" BASE arm

Minimum dimension with "Soft Opening" LARGE arm

HORIZONTAL DIMENSION						
LARGE	BASE	SMALL	LP= (LFM-140) LA= (LFM-111)			
			LFM WALL HOLE WIDTH	**LP** WIDTH PASSAGE DIMENSION	**LA** DOOR LEAF WIDTH	
		●	610	460	499	
		●	650	510	539	
	●	●	700	560	589	
	●	●	750	610	639	
	◉	◉	800	660	689	
	◉		850	710	739	
	◉		900	760	789	
	◉		950	810	839	
	◉		1000	860	889	
	◉		1050	910	939	
●	◉		1100	960	989	
●			1150	1010	1039	
●			1200	1060	1089	
●			1250	1110	1139	
◉			1300	1160	1189	
●			1350	1210	1239	
●			1400	1260	1289	
◉			1450	1310	1339	
◉	*Available Standard dimension*					
●	Available dimensions, by adjusting the track, see page 17 (it is possible to have intermediate dimensions)					

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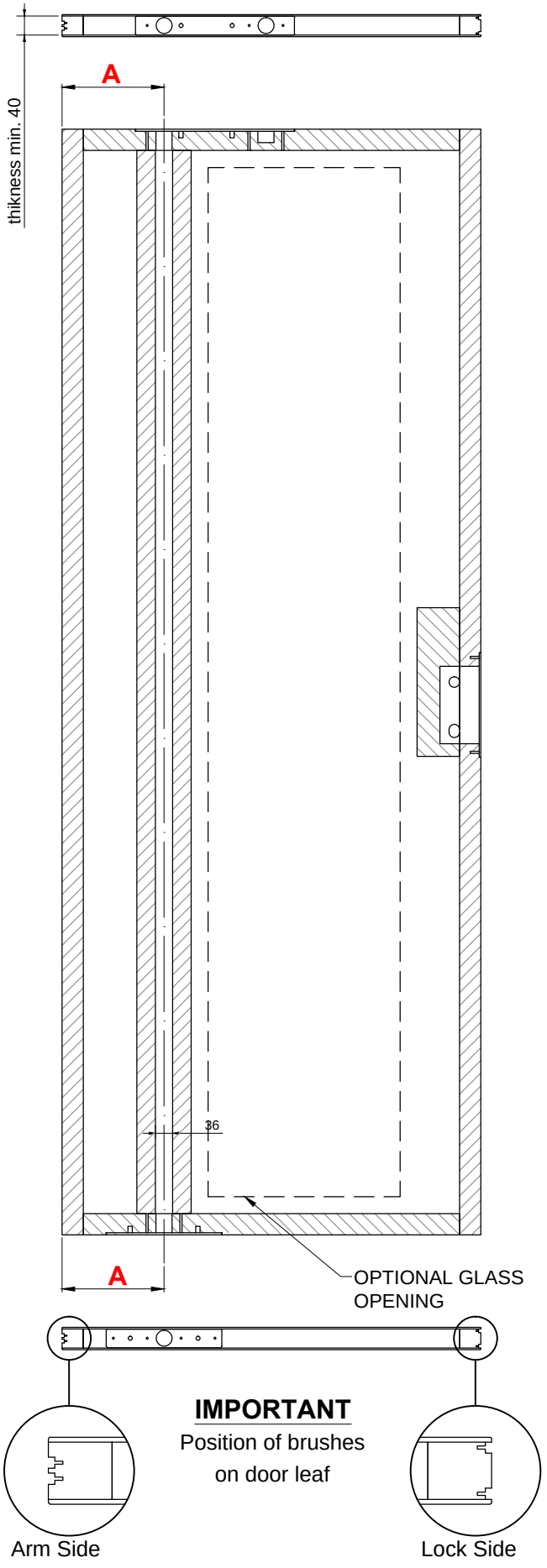
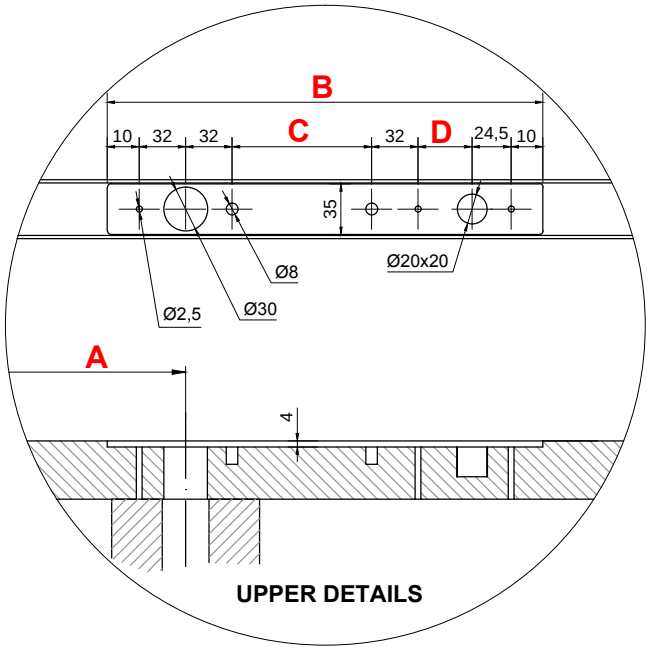
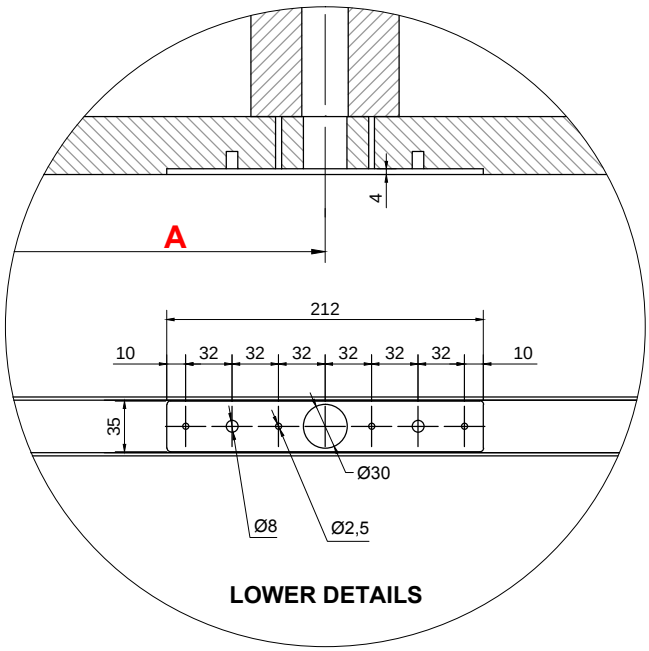




Variable measures according to arm used				
	A	B	C	D
BASE arm	192	276	96	39,5
SMALL arm	144	227,3	47,3	39,5
LARGE arm	306	390	224	25,5



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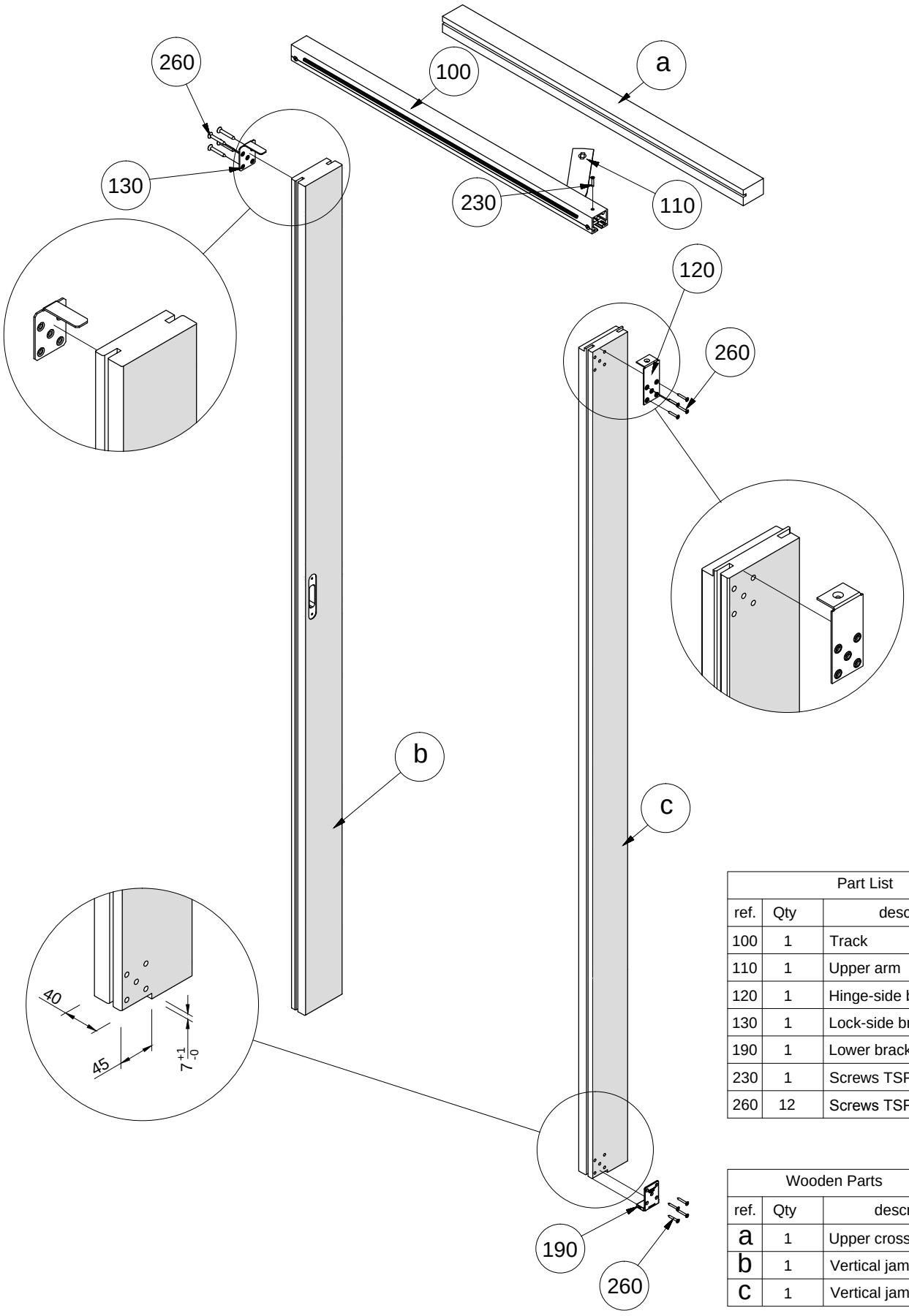

Part List		
ref.	Qty	description
100	1	Track
110	1	Upper arm
120	1	Hinge-side bracket
130	1	Lock-side bracket
190	1	Lower bracket
230	1	Screws TSPei M5x12
260	12	Screws TSPcr Ø3,5x30

Wooden Parts		
ref.	Qty	description
a	1	Upper crossbeam
b	1	Vertical jamb, lock side
c	1	Vertical jamb, hinge side

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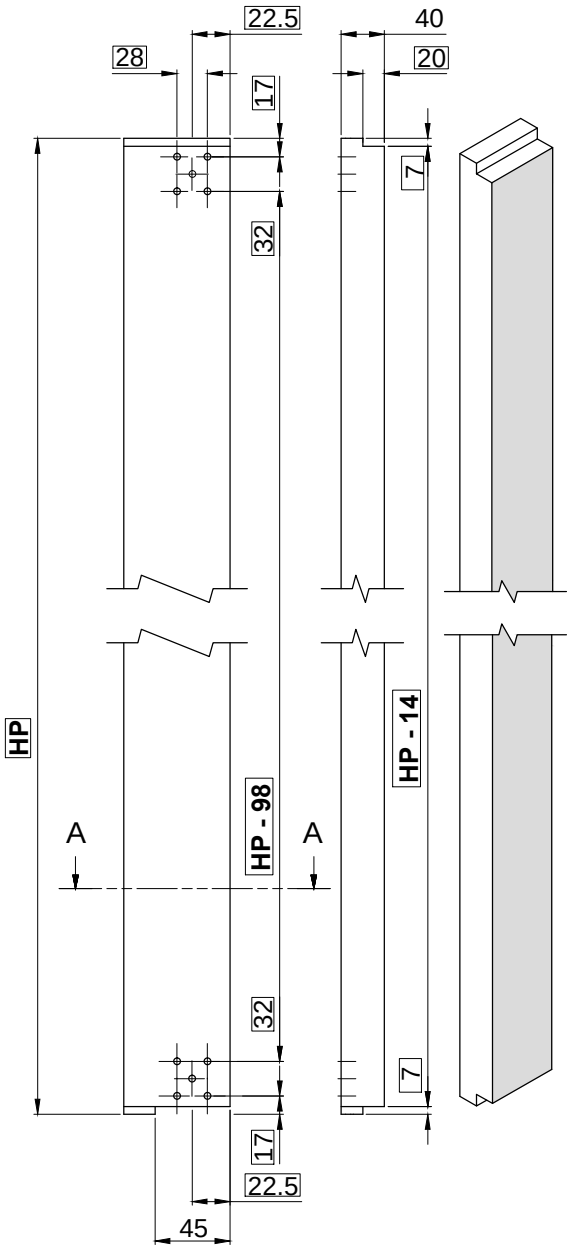
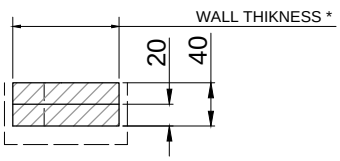
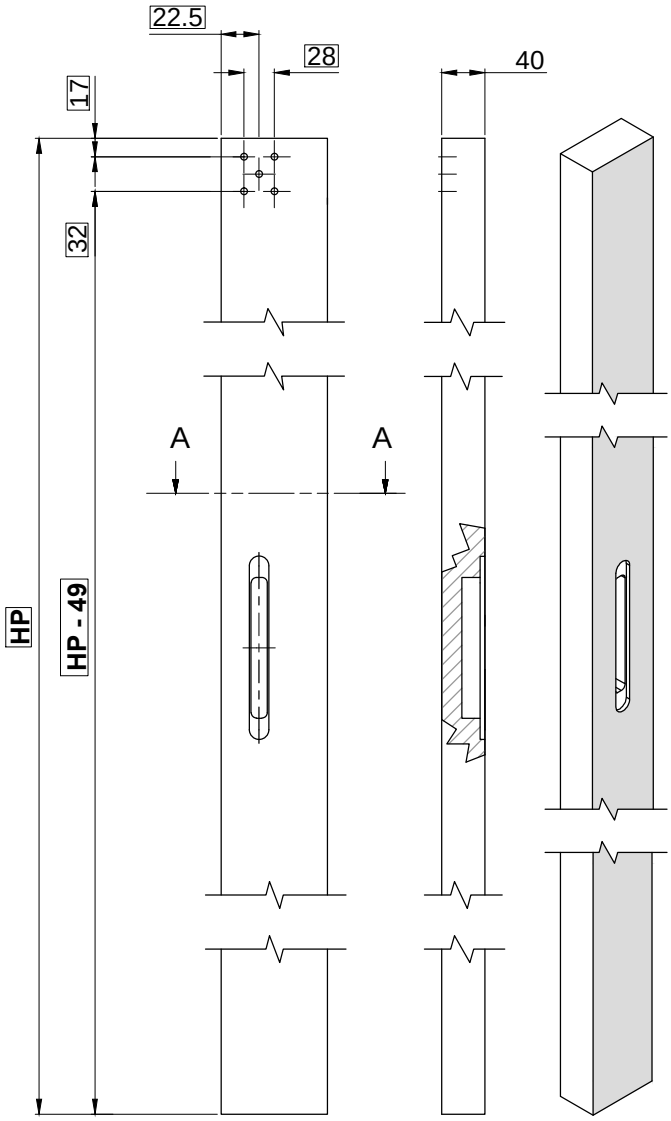
HINGE SIDE

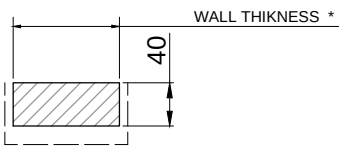




SEZ. A-A

LOCK SIDE



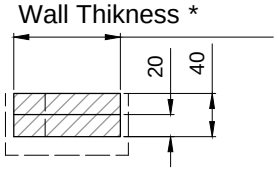


SEZ. A-A

IMPORTANT DIMENSIONS THAT MUST BE ACCURATE — — — **VISIBLE SIDE** **HP = PASSAGE DIMENSION**

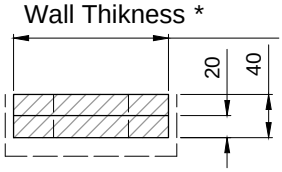
ORIENTED DOOR

Wall Thikness *



CENTERED DOOR

Wall Thikness *



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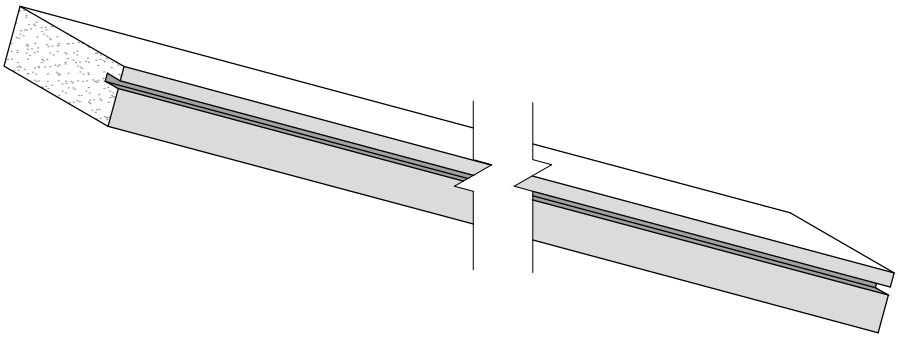
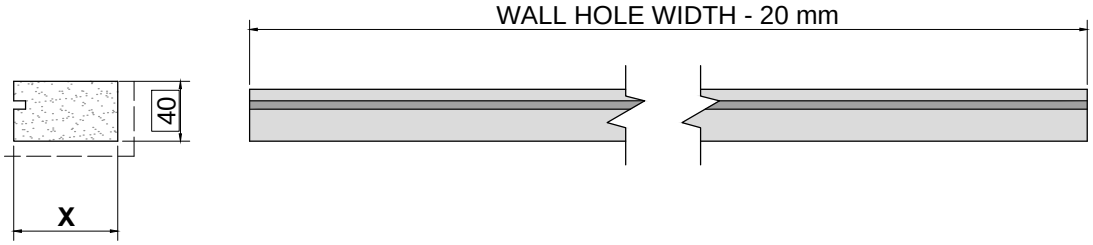
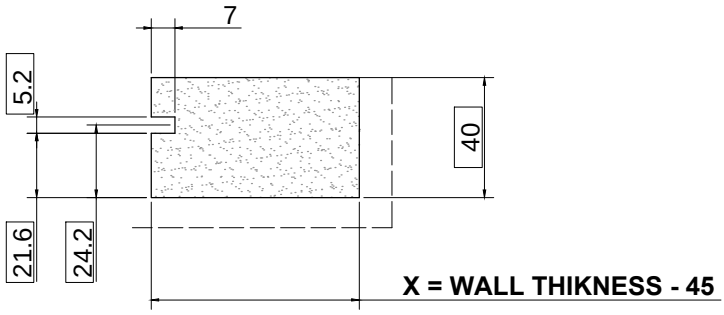
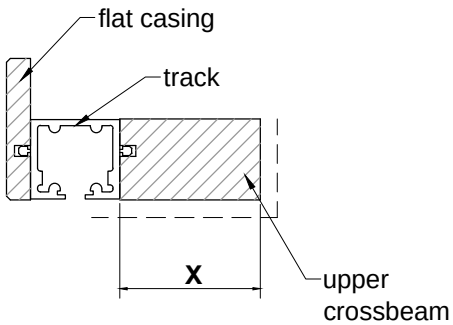




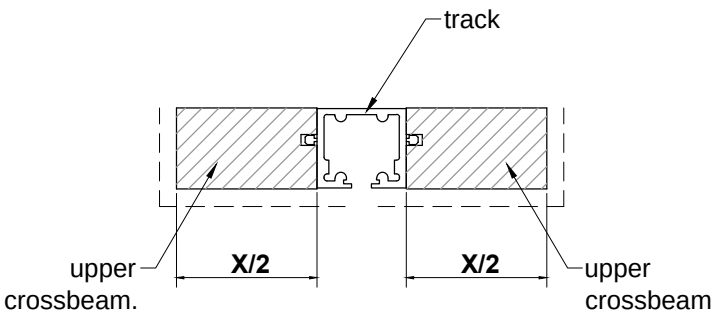


DIMENSION THAT BE ACCURATE **X = WALL THICKNESS - 45** **VISIBLE SIDE**

ORIENTED DOOR



CENTERED DOOR



For centered door it is necessary to have two specular crossbeam.

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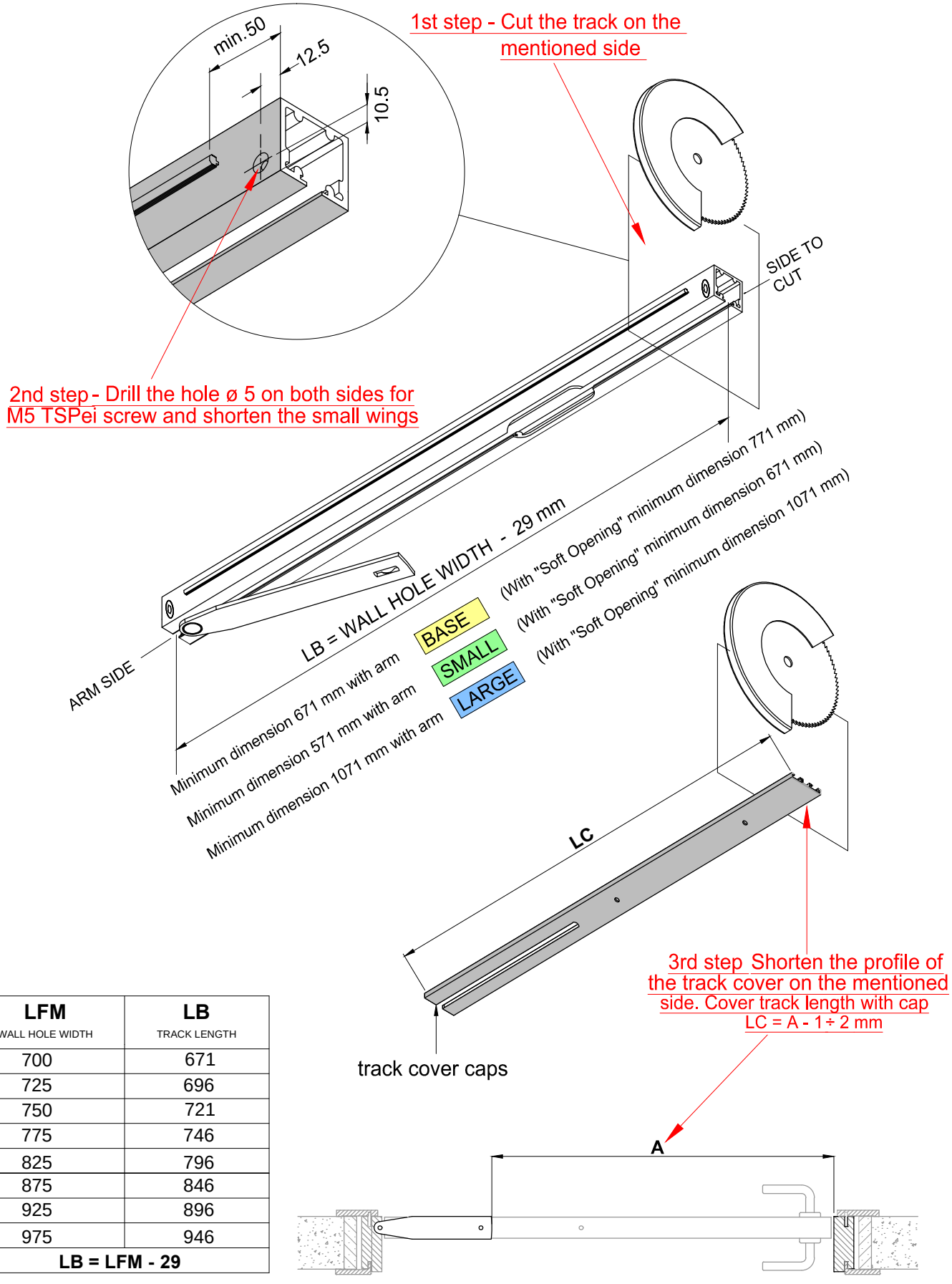

LFM WALL HOLE WIDTH	LB TRACK LENGTH
700	671
725	696
750	721
775	746
825	796
875	846
925	896
975	946
LB = LFM - 29	

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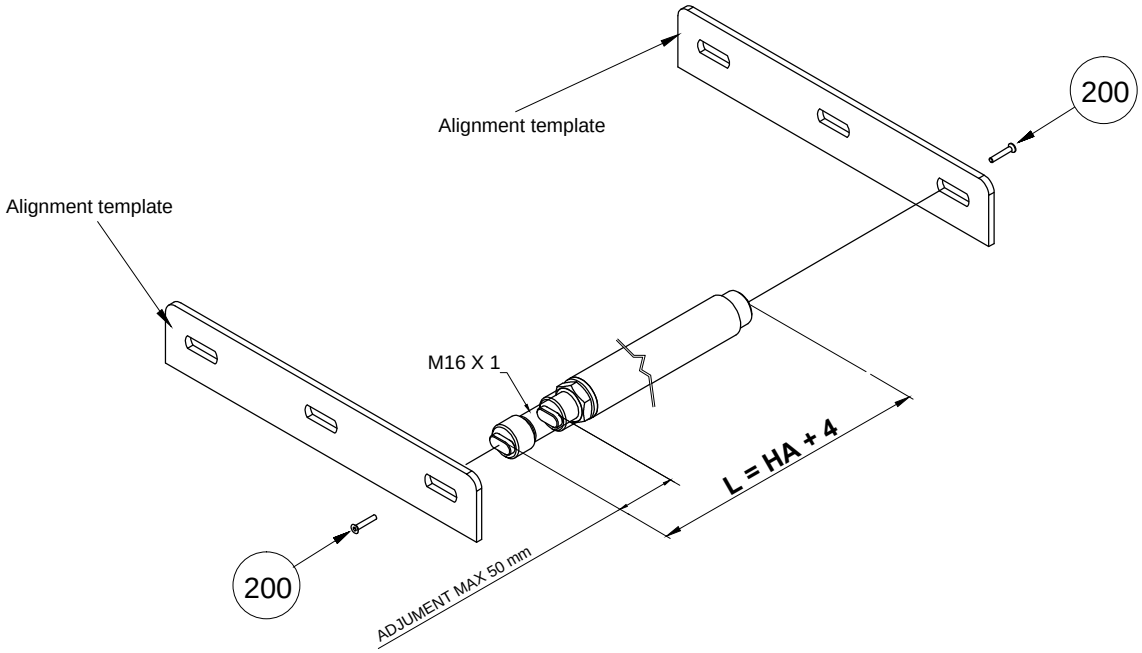
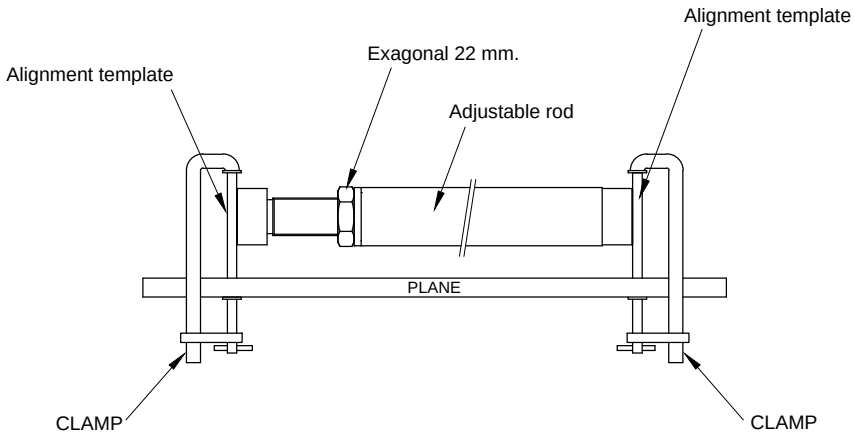
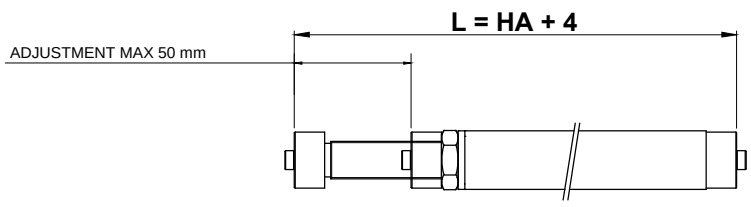
ADJUSTMENT OF THE CONNECTING ROD FOR NOT STANDARD HEIGHTS.

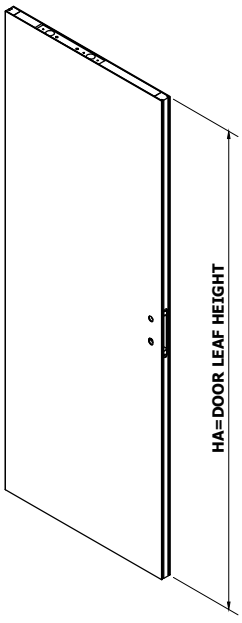




After having cut the alignment templates to measure and inserted them on the rod pins, **fix them firmly** to the plane before tightening the nut. Check the alignment of the pins.



Insert the rod in the panel with the adjustable side in the upper part.



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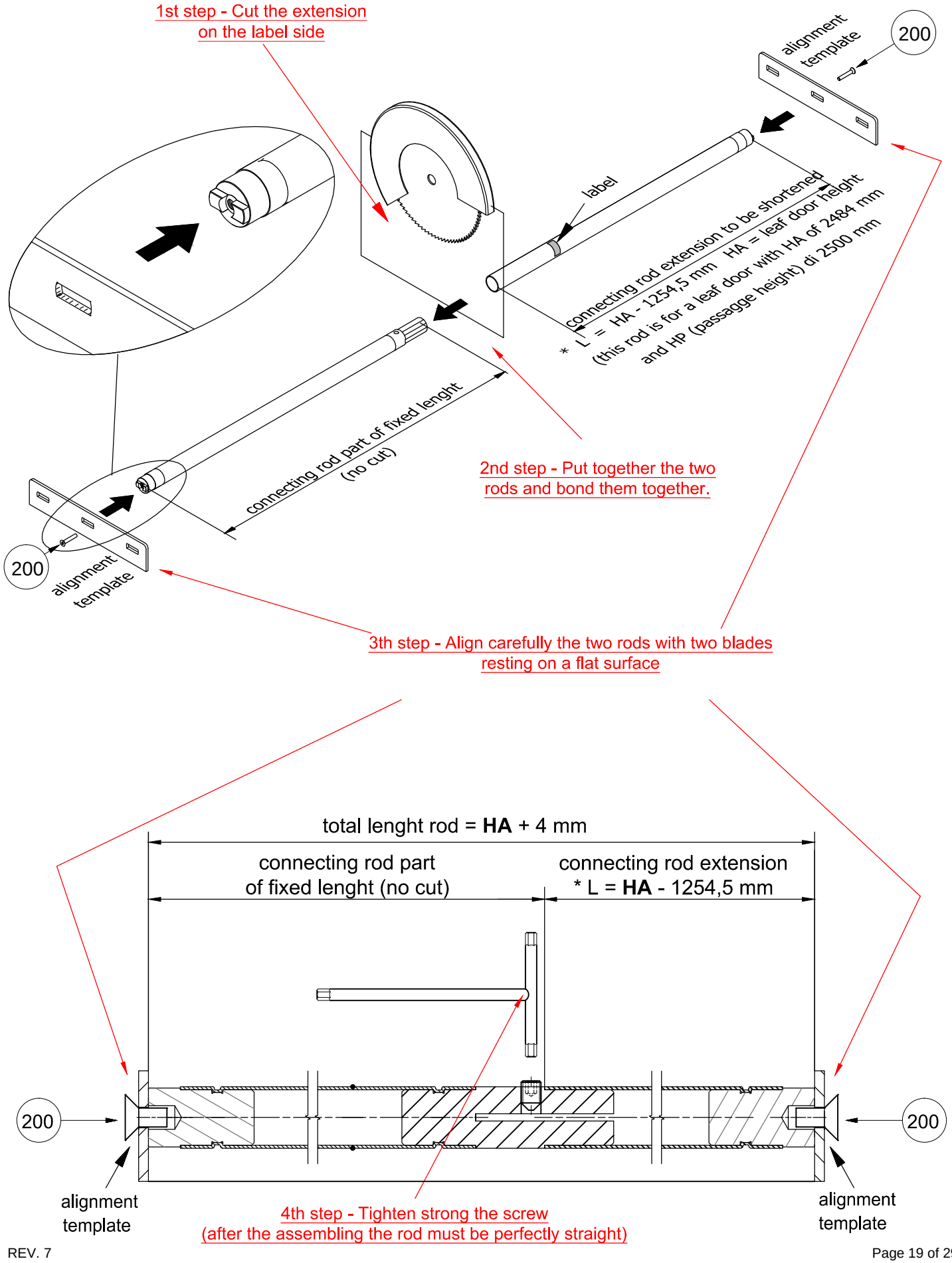
ADJUSTMENT OF THE CONNECTING ROD FOR NOT STANDARD HEIGHTS.



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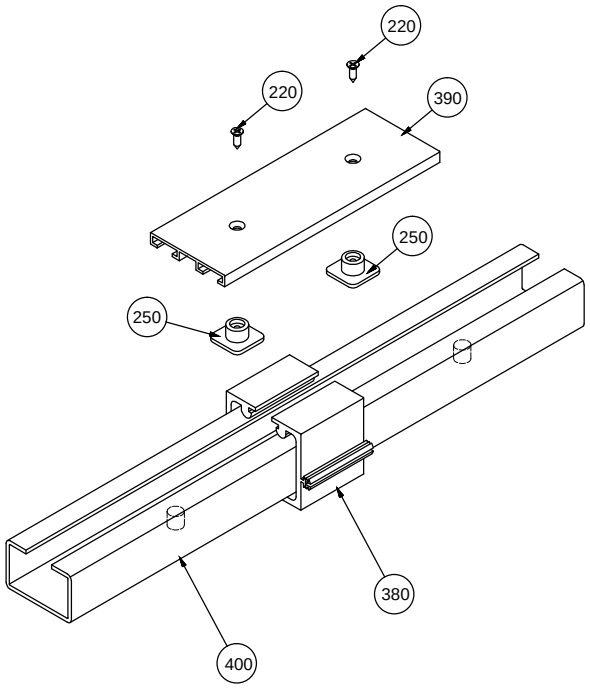
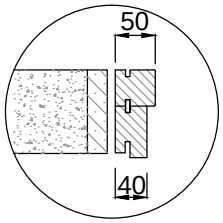
1

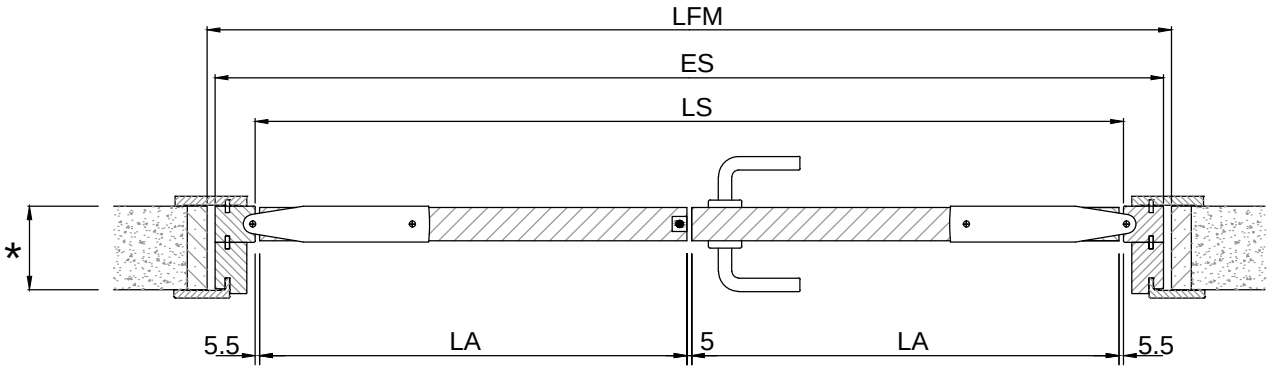


Part list		
rif.	q.ty	DESCRIPTION
220	1	Screw TSPcr Ø3X10
250	2	Track cover installation insert
380	1	Track extension
390	1	Track cover extension
400	1	Track graft junction

2



The measurements refer to a jamb with doorpost of 50 mm.



* N.B. For the limits of the wall thickness see page 5-6-7-8-9-10 in this manual.

LFM min. 1600 mm. with BASE arm
with "Soft Opening" **LFM** min. 1700 mm.

LFM min. 1400 mm. with SMALL arm
with "Soft Opening" **LFM** min. 1500 mm.

LFM min. 2300 mm. with LARGE arm
with "Soft Opening" **LFM** min. 2300 mm.

Legend
LP = **P**assage **D**imension (LFM - 200)
LA = **D**oor **L**eaf **W**idth (LFM - $\frac{136}{2}$)
LS = **D**oor **J**amb **O**pening (LFM - 120)
ES = **O**uter **J**amb (LFM - 20 = length of the track and upper crossbeam)
LFM = **W**all **H**ole **W**idth

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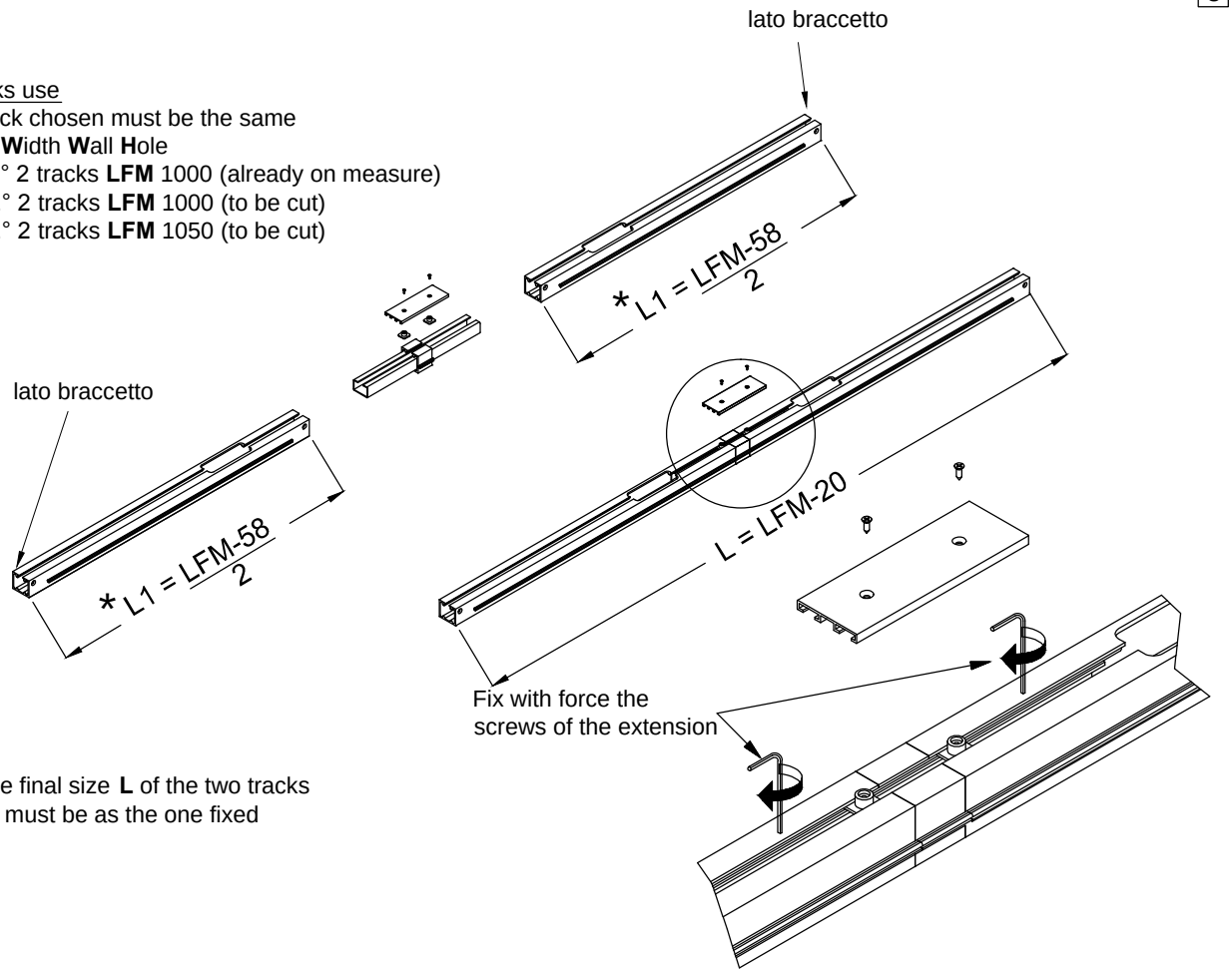
3

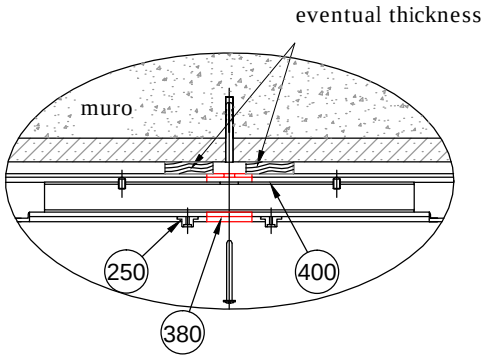
Choice of the tracks use
The sum of the track chosen must be the same
or higher than the **W**idth **W**all **H**ole
ex. : **LFM** 2000 n.° 2 tracks **LFM** 1000 (already on measure)
LFM 1960 n.° 2 tracks **LFM** 1000 (to be cut)
LFM 2060 n.° 2 tracks **LFM** 1050 (to be cut)

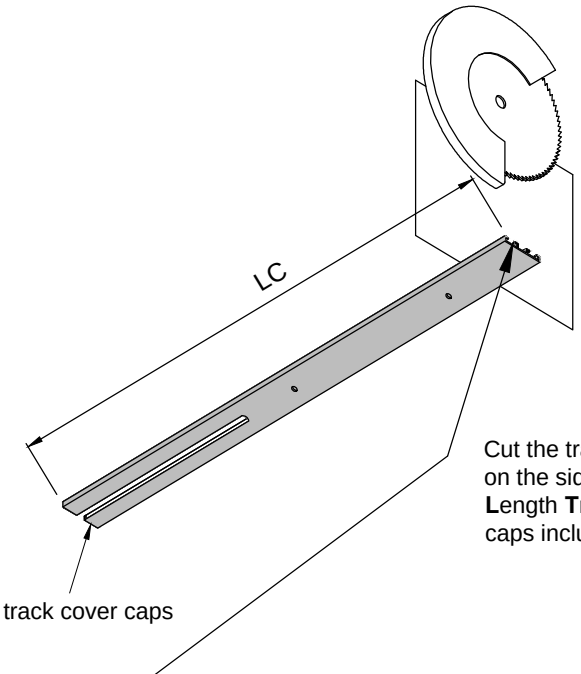


* Pay attention to the final size **L** of the two tracks assembled, which must be as the one fixed

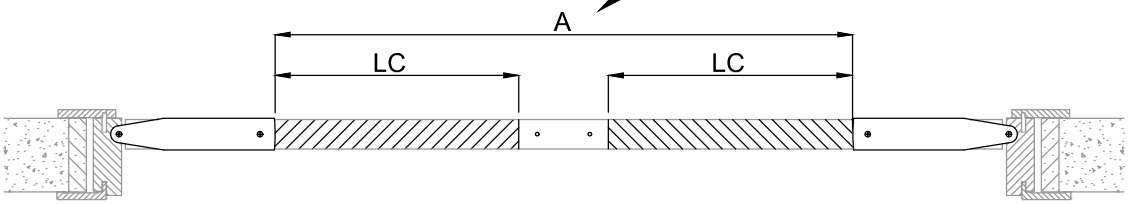
4

Fix properly the track to the upper wall through the hole you see on the track extension (380)
Before installing the doors be sure that internal track are clean.





Cut the track cover profil
on the side shown
Length **T**rack **C**over
caps included **LC** = A - 133 / 2



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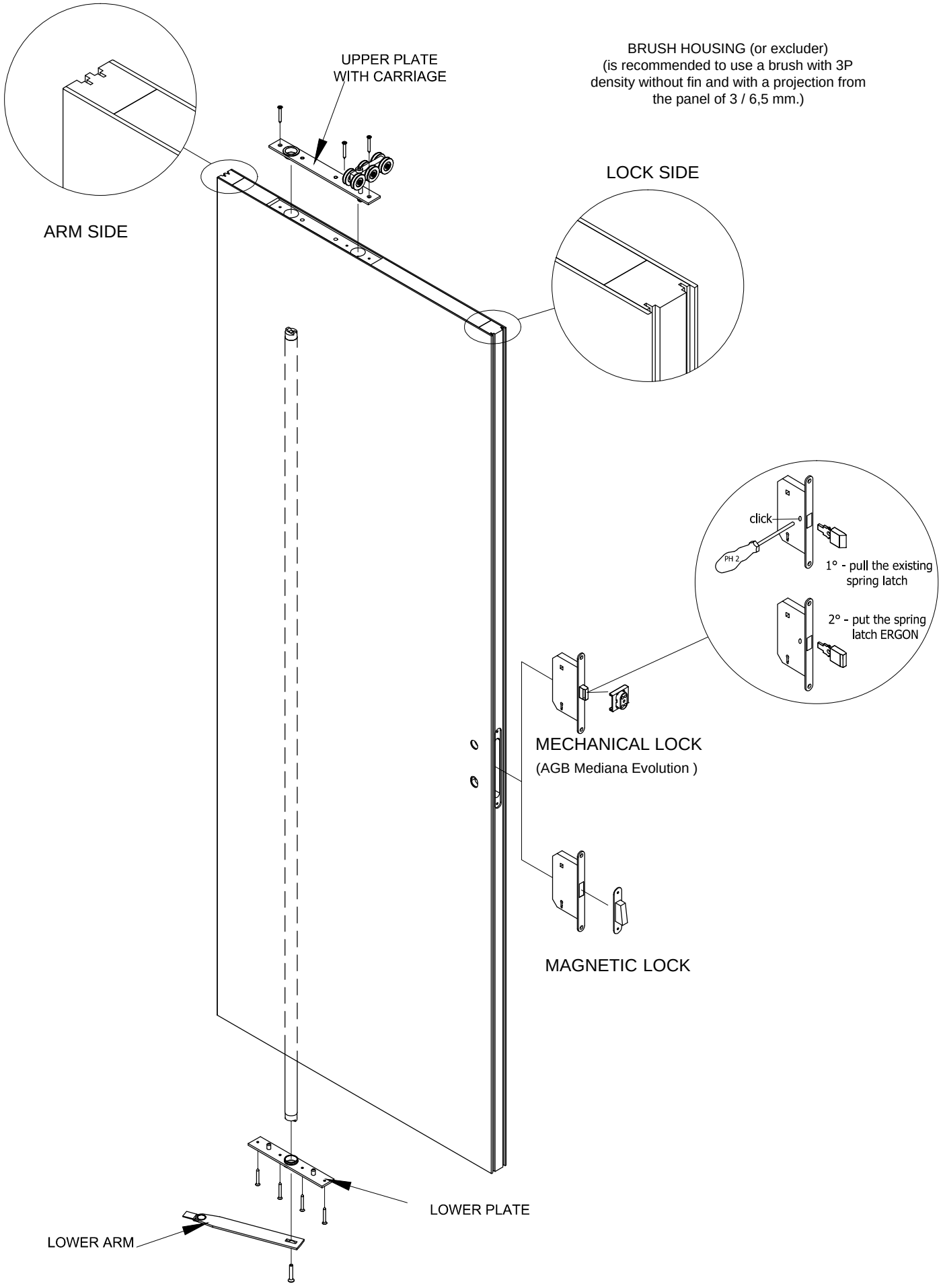

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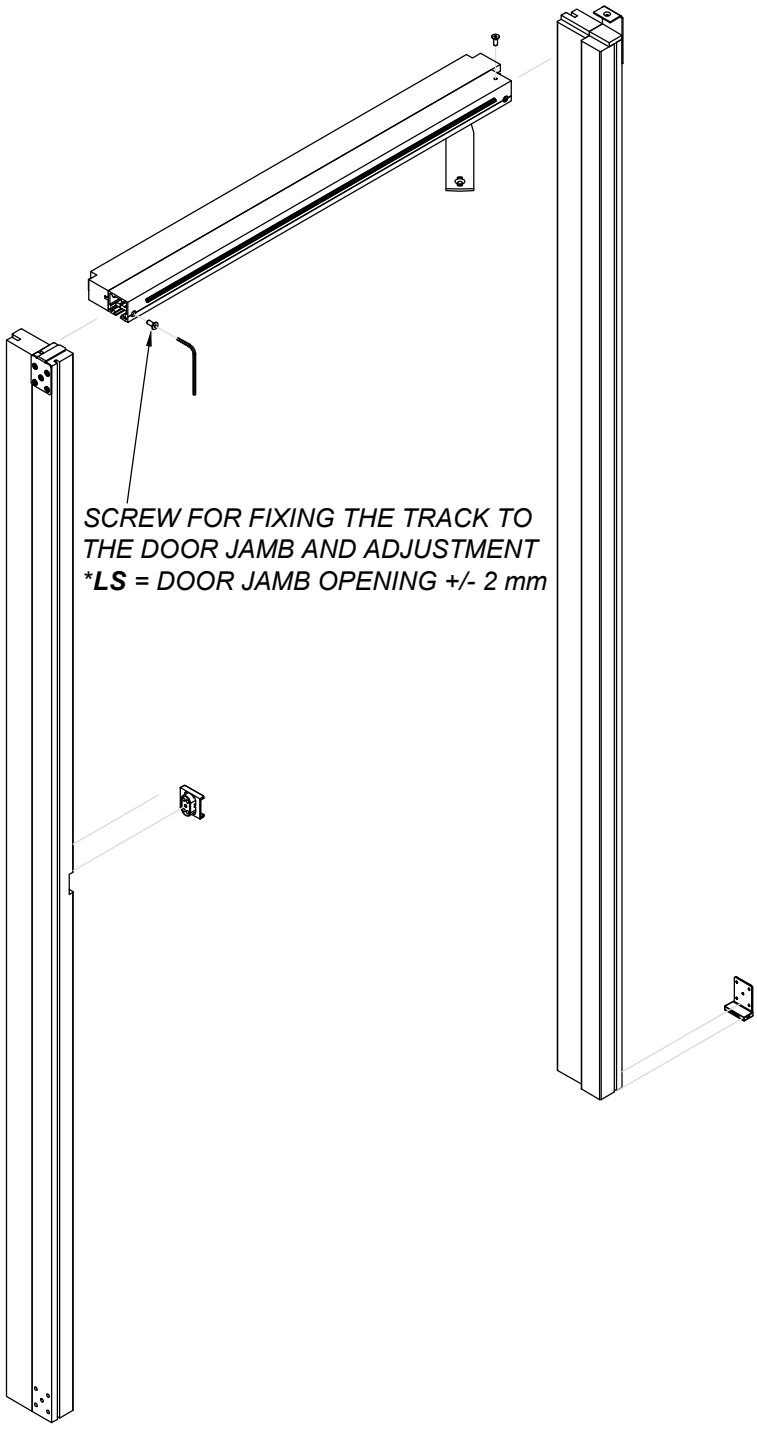
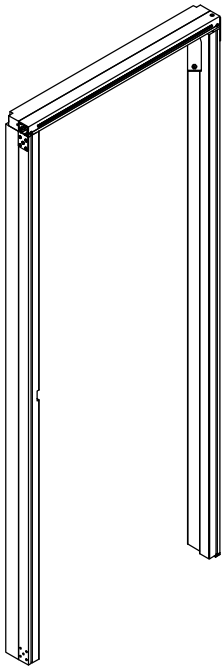
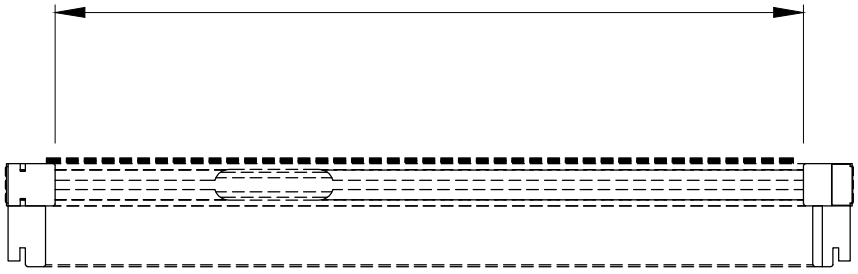


SCREW FOR FIXING THE TRACK TO THE DOOR JAMB AND ADJUSTMENT
*****LS*** *= DOOR JAMB OPENING +/- 2 mm*



ASSEMBLED DOOR FRAME

LS *= Door Width + 11mm*



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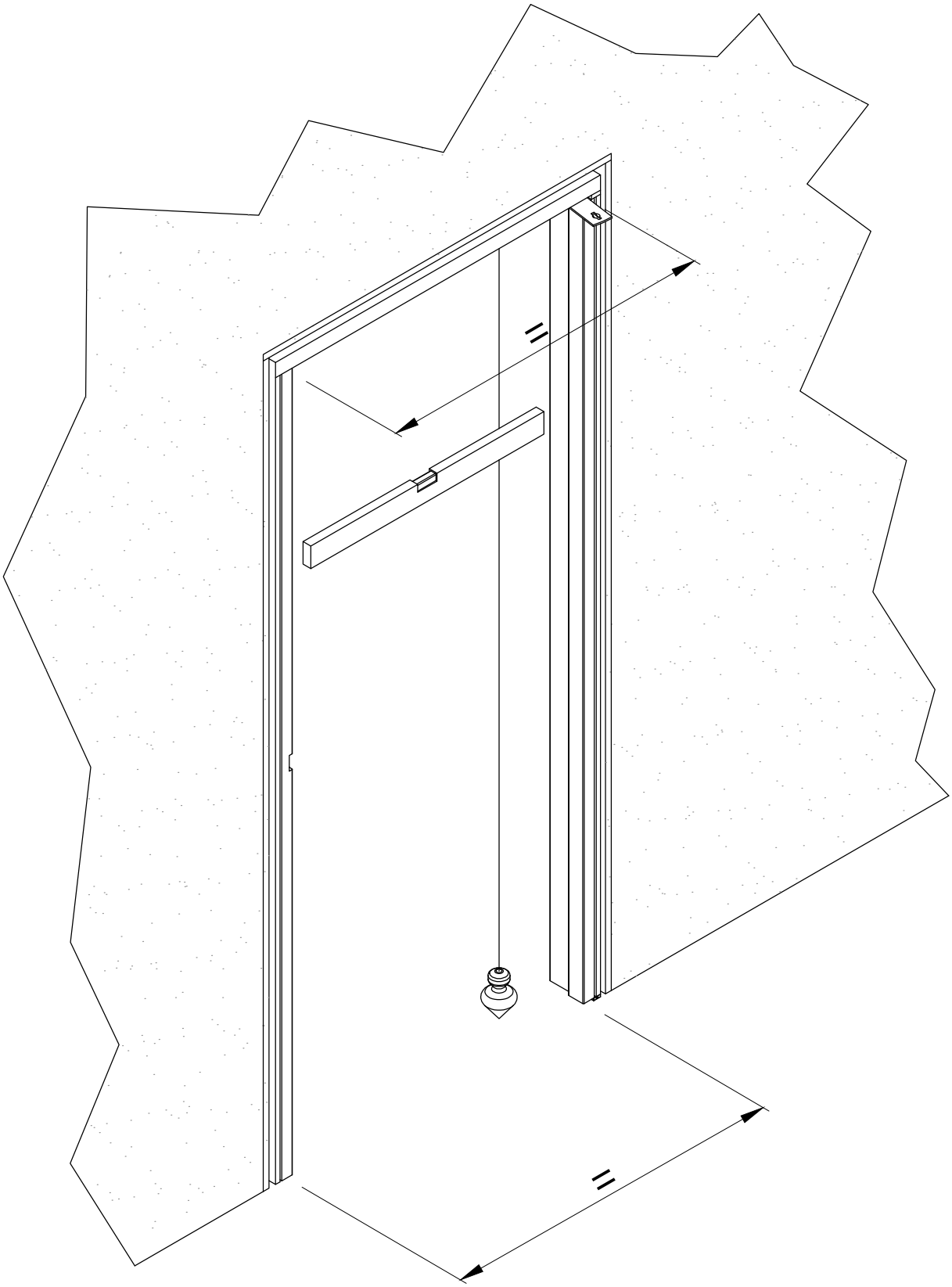

NOTE:
THE LEVELLING OF THE TRACK AND THE PLUMB OF THE DOOR JAMBS MUST BE PRECISE

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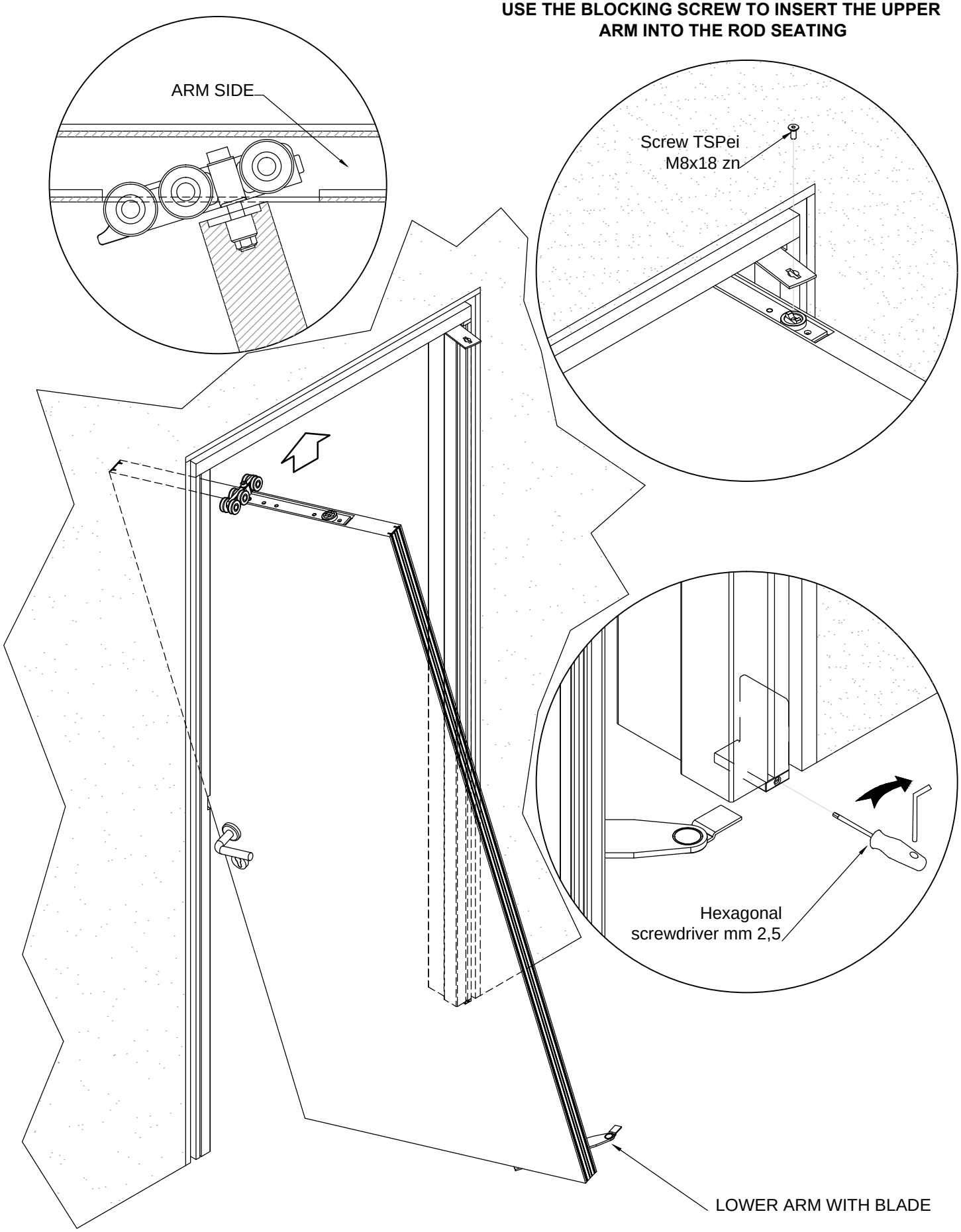
USE THE BLOCKING SCREW TO INSERT THE UPPER ARM INTO THE ROD SEATING



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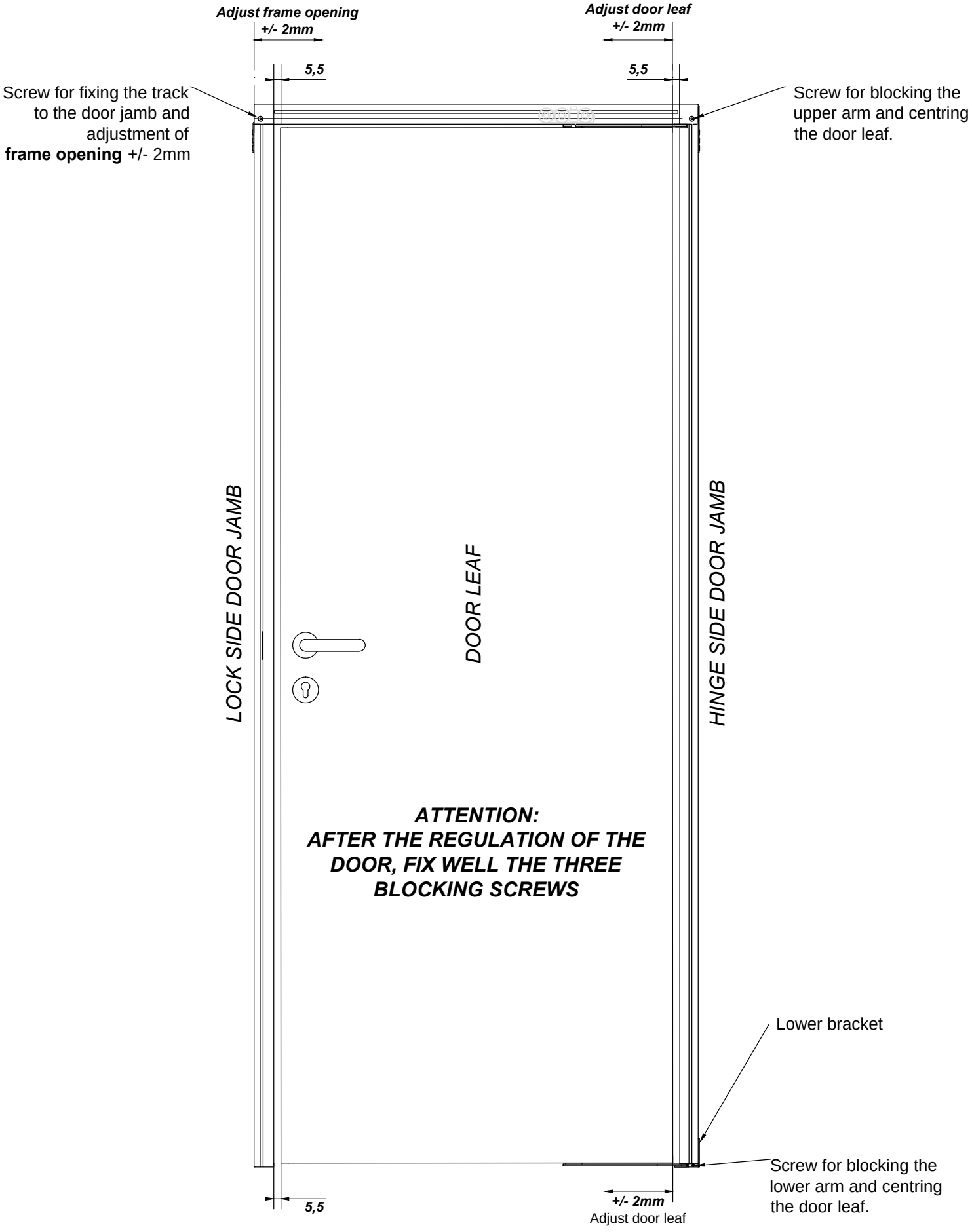

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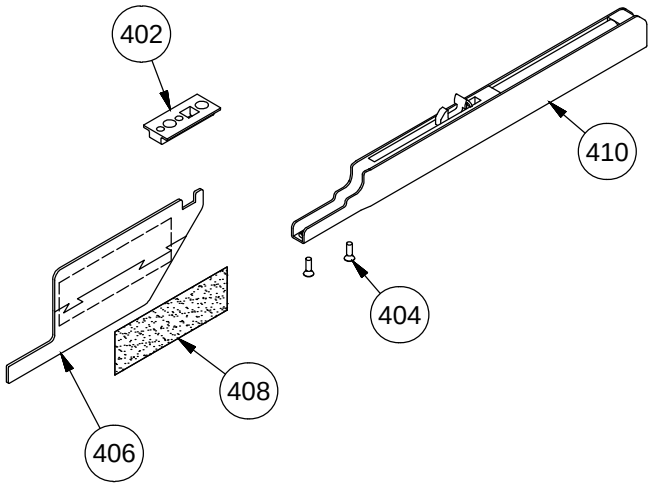
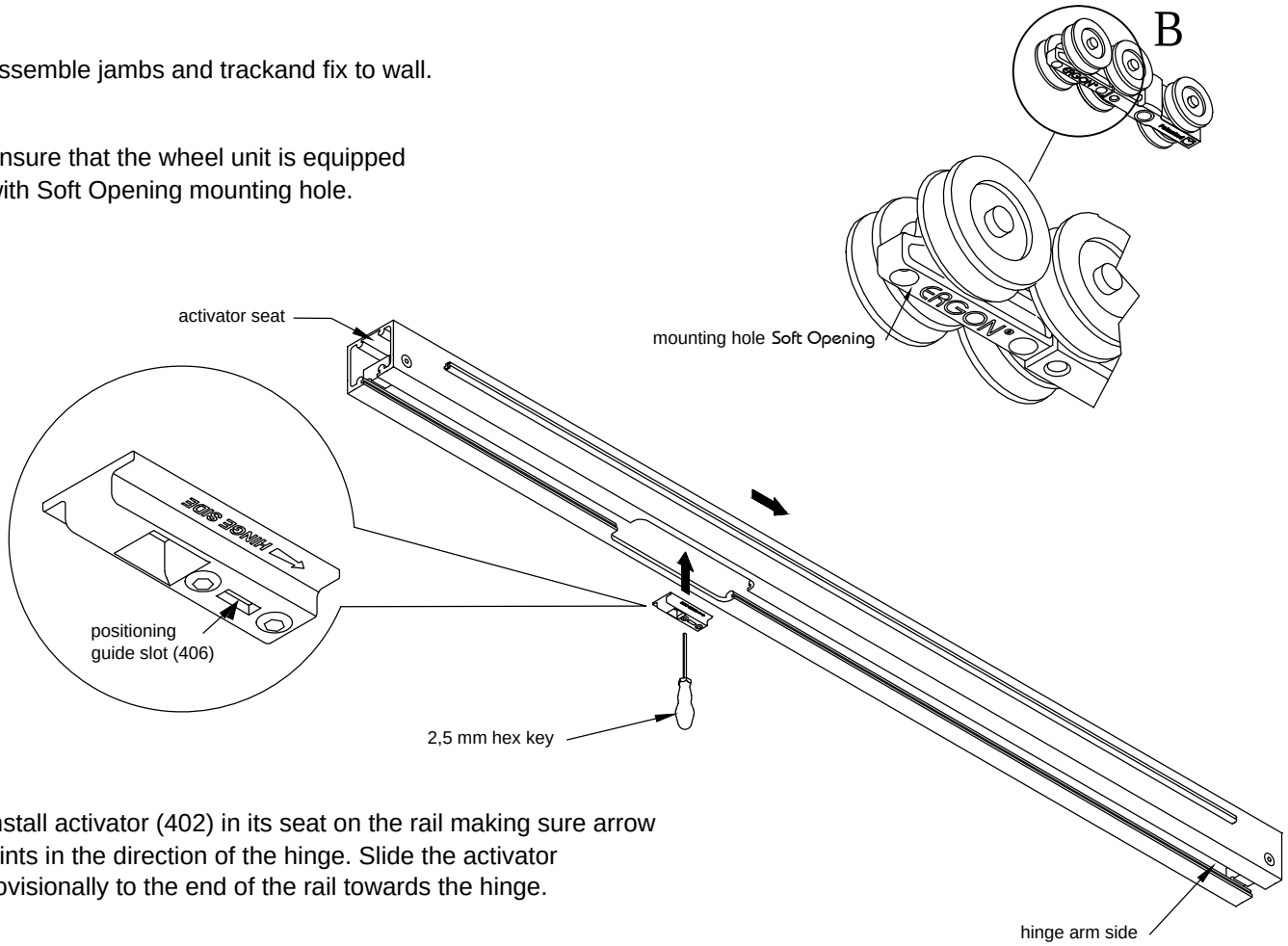


List of Components		
Ref.	Q.ty	Description
402	1	Activator
404	2	Screw TSP+ M3x8 - ISO 7046
406	1	Activator positioning template
408	1	Sticker
410	1	Soft Opening

Installation

1) Assemble jambs and trackand fix to wall.

2) Ensure that the wheel unit is equipped with Soft Opening mounting hole.



3) Install activator (402) in its seat on the rail making sure arrow points in the direction of the hinge. Slide the activator provisionally to the end of the rail towards the hinge.

4) Hang the door and mount the hinge arm. Adjust the door normally and open it all the way.

N.B. If the door is already installed, remove the track cover and then install the activator in its seat on the rail.

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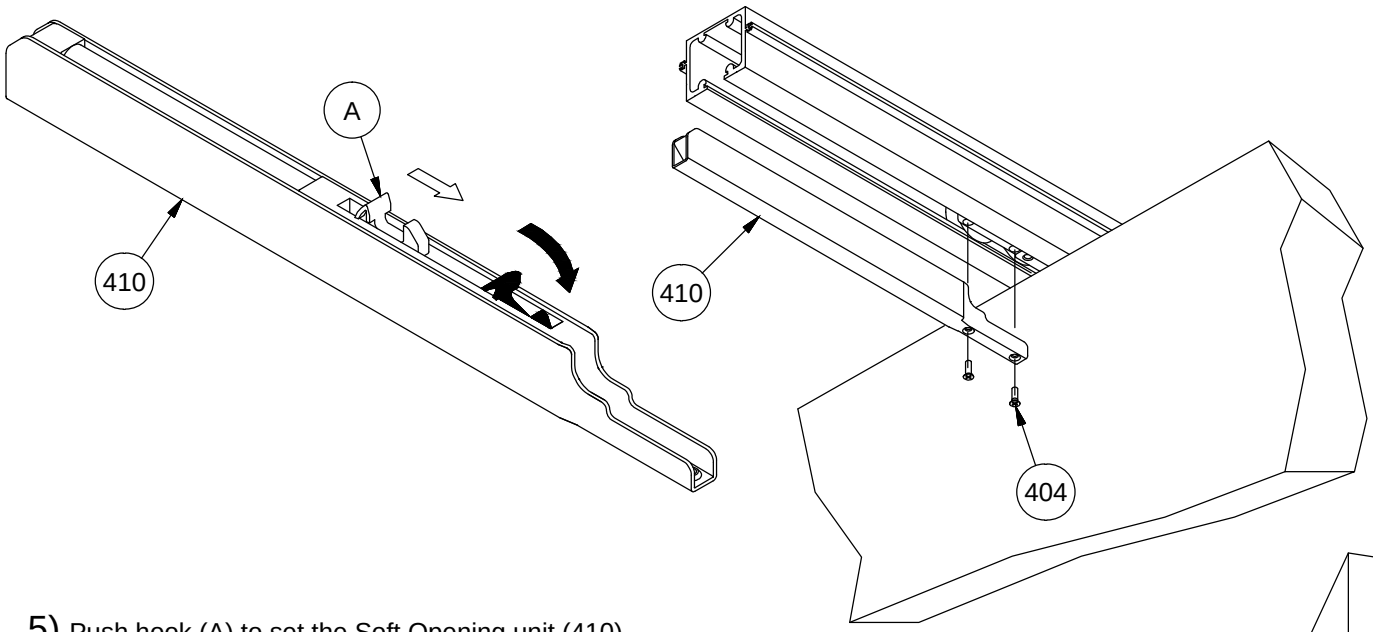
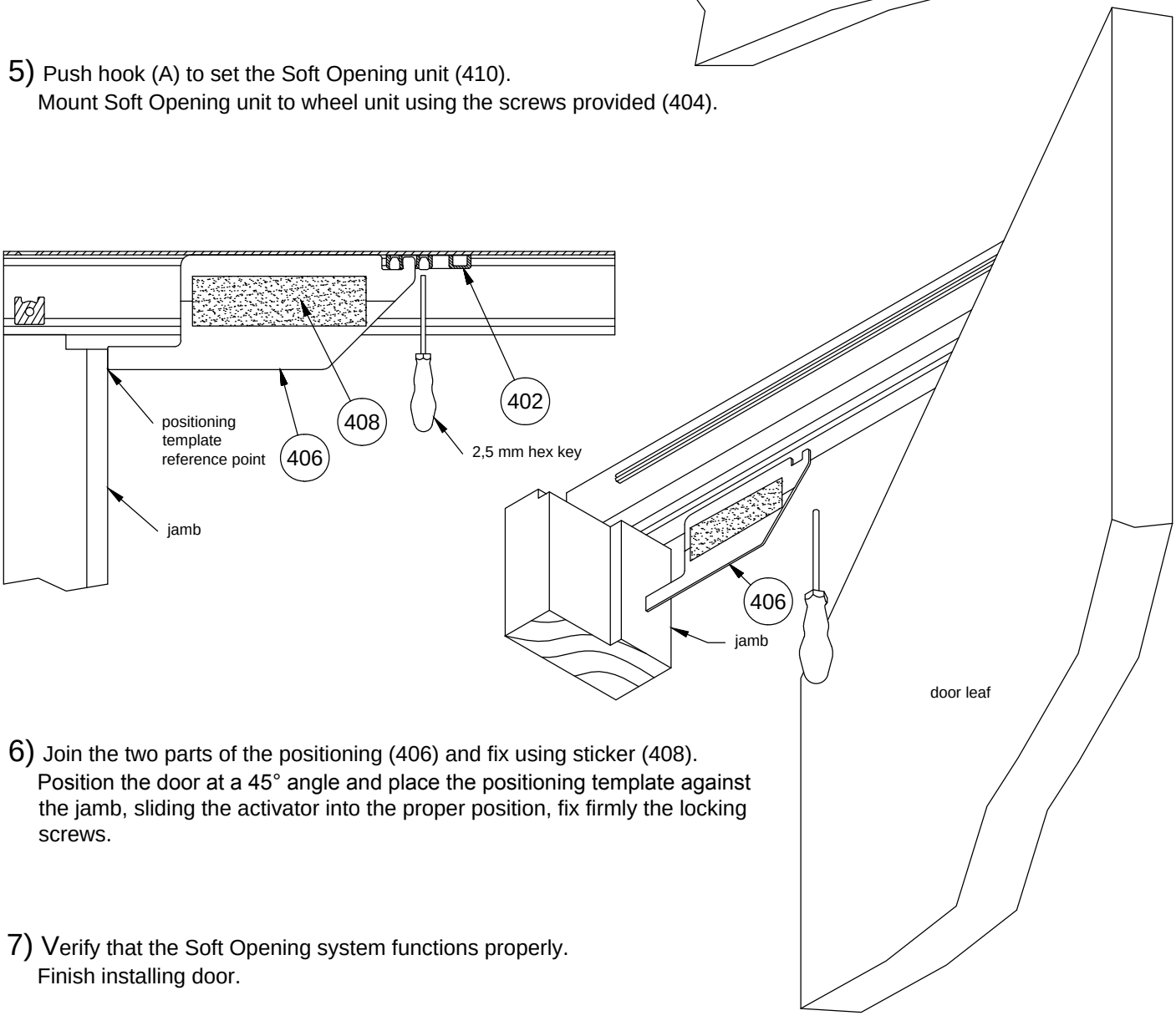


5) Push hook (A) to set the Soft Opening unit (410).
Mount Soft Opening unit to wheel unit using the screws provided (404).



6) Join the two parts of the positioning (406) and fix using sticker (408).
Position the door at a 45° angle and place the positioning template against the jamb, sliding the activator into the proper position, fix firmly the locking screws.

7) Verify that the Soft Opening system functions properly.
Finish installing door.

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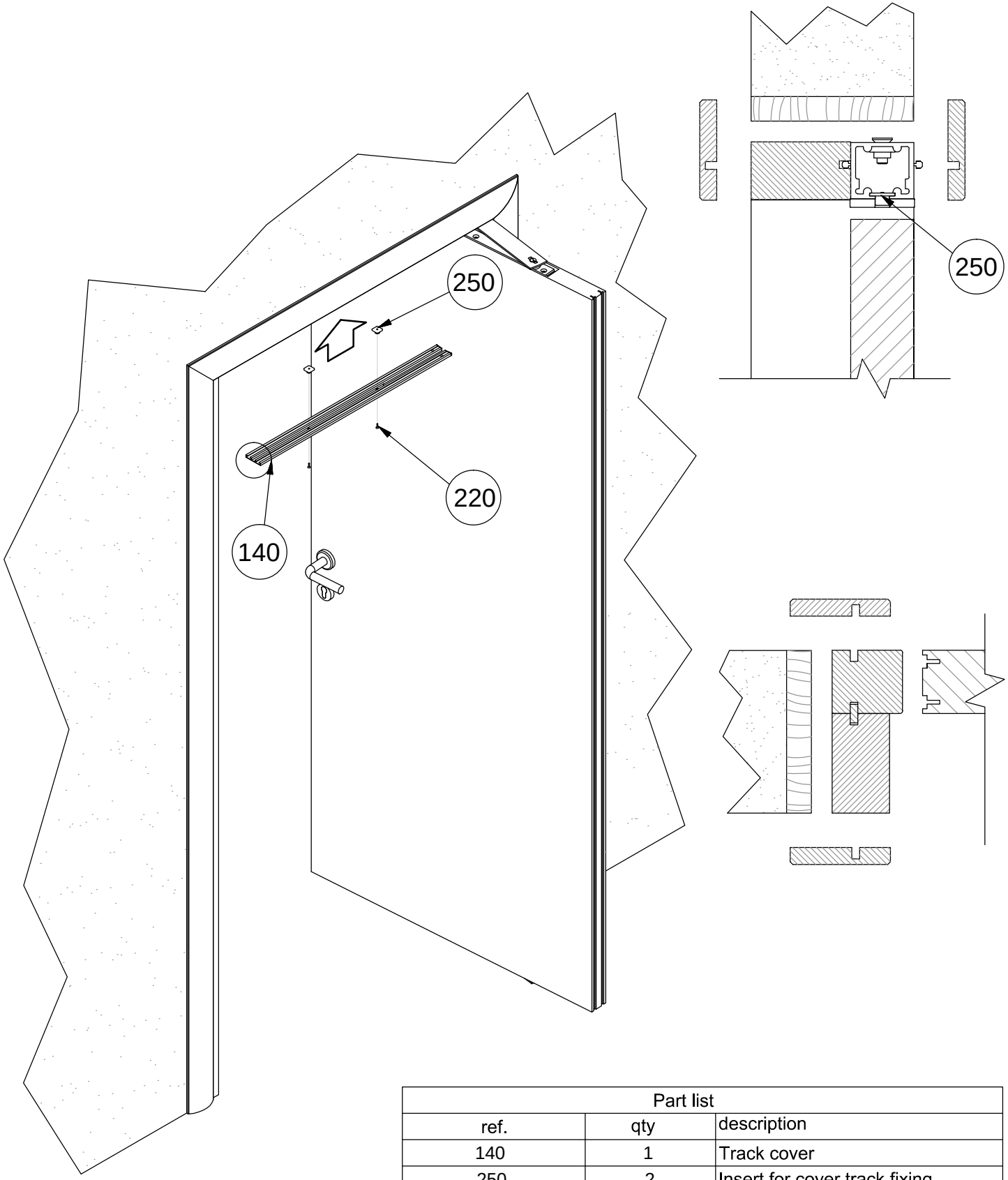
IF THE FRAME WITH DOORPOST IS USED (SEE THE FIGURE HERE BELOW), THE TRACK COVER MUST BE SHORTENED BY 20 mm ON THE SIDE MARKED WITH THE CIRCLE.



Part list		
ref.	qty	description
140	1	Track cover
250	2	Insert for cover track fixing
220	2	Screw TSPcr Ø3X10

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