



TECHNICAL MANUAL - CONSTRUCTION AND INSTALLATION

Swinging-sliding door with connecting rod on frame JAMB THICKNESS 30/40 mm

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1. INTRODUCTION

The **Ergon Living T.E. SLIM** system retains the tried and tested features of **T.E.** version:

- Rotation rod within the frame;
- Door weight limit 70 kg;
- Minimum door thickness 35 mm;
- Possibility of applying the "Soft Opening" damper;
- Available in silver and black finishes;
- Two different arm sizes:
 - "BASE" particularly suitable for LFM (Wall opening width) from 800 to 1000 mm;
 - "SMALL" particularly suitable for LFM (Wall opening width) from 610 to 800 mm;

Differences from the **T.E.** version:

- the connecting rod does not require the aluminium upright, but is simply held in the guide by a small plastic component;
- the **T.E. SLIM** version allows the use of a flat frame of the thickness 30 to 40 mm;
- the use of doors in standard sizes with a false frame of standard size (e.g.: door L = 815 mm with wall opening width L = 900 mm) using a 30 mm thickness frame;
- we recommend the use of a magnetic lock.

Depending on the specific needs, with the **T.E. SLIM** hardware the door can be constructed in such a way that, compared to the wall thickness, the door can assume any position. There follow two limit positions, making use of terminologies which are then used in this manual:

1. "centred door" where the door is positioned at the centre of the wall



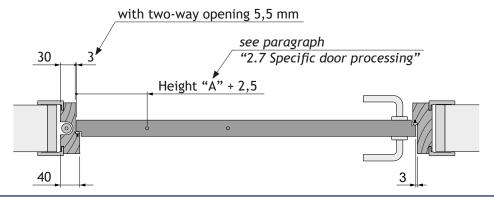
2. "oriented door" where the door is positioned close to one of the two edges of the wall



The **Ergon Living T.E. SLIM** system is offered in various sizes of standard widths and heights. It is also possible obtain intermediate measures in width by shortening the track and the track cover (see "2.12 Track adjustment to the width of the door to be achieved"), in height by purchasing the appropriate shortenable rod kit (see "2.13 Shortenable connecting rod kit"), or requesting the rod in a special measurement.

SWING DOORS WITH ONE DIRECTION OF OPENING

The **Ergon** kits for swing doors with one-way opening are the same as those used for doors with two-way opening; this is possible by simply creating the hinges in the vertical sides of the door. Here below is an example:



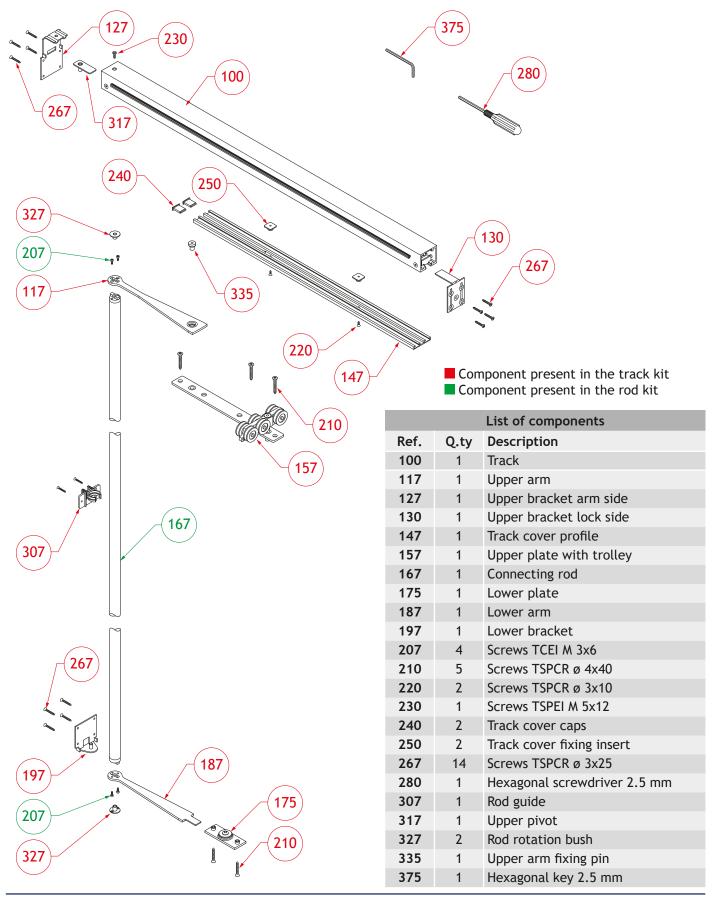
Caution: The door and frame hinges are mirrored.

It is also possible to construct doors without the hinge.



2. DESCRIPTION

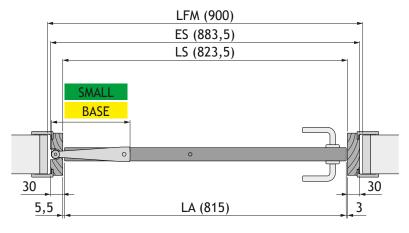
2.1 Exploded hardware diagram



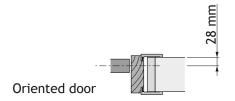


2.2 Single door horizontal dimensional drawing

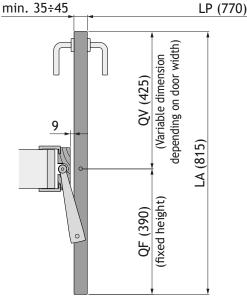
Dimensional example



The door can be positioned oriented with respect to the thickness of the wall, respecting the limit shown in the diagram below.



For the management of wall thicknesses see "2.6 Management of wall thicknesses".



ATTENTION: On door with reduced widths the handle may collide with the jamb.

Pay attention to the dimension of the handle, door leaf and wall thickness.

The values given in this table refer to a door with frame thickness 30 mm and door thickness 45 mm; in case of using a frame of thickness 40 mm the values of LP, LA, LS and QV decrease by 20 mm.

BASE	ALL	WIDTH DIMENSIONS						
BA	SMAL	LFM	LP	LA	Q	F	Q	V
	•	610	480	525	290		235	
	•	650	520	565	290		275	
•	•	700	570	615	390	290	225	325
•	•	750	620	665	390	290	275	375
•	•	800	670	715	390	290	325	425
•		850	720	765	390 390 390		375	
•		900	770	815			425 475	
•		950	820	865				
•		1000	870	915	390		525	

 $\label{thm:minimum_size} \mbox{Minimum size for "Soft Opening" arm SMALL}$

Minimum size for "Soft Opening" arm BASE

LFM = Wall opening width

LP = Passage dimension (LFM - 130)

LA = Door width (LFM - 85)

LS = Jamb opening (LFM - 76,5)

ES = Exterior jambs (LFM - 16,5)

QF = Fixed dimension arms side

OV = Variable dimension handle side

• = Standard Available sizes

30

• = Some examples of measurements obtainable by shortening the track, it is also possible to obtain other intermediate measurements

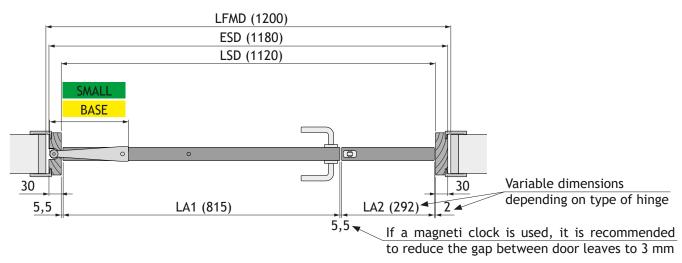
For other special measurements ask Celegon s.r.l. for feasibility

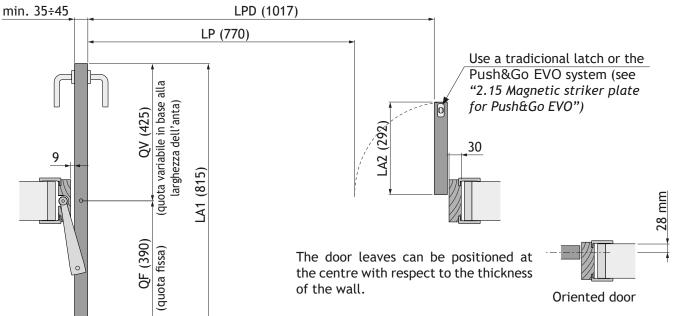


2.3 Double door horizontal dimensional drawing

ERGON door leaf and rabbet door

Dimensional example





For the management of wall thicknesses see "2.6 Management of wall thicknesses".

The values given in this table refer to a door with frame thickness 30 mm and door thickness 45 mm.

When ordering hardware, the dimensions of the wall opening and the type of arm that will be used must be provided. A custom track kit be supplied based on the dimensions provided.

LFMD = Wall opening width

LPD = Passage dimension (LFMD - 183)

LA1 = Door width (see table in paragraph "2.2 Single door horizontal dimensional drawing")

LA2 = Door leaf width (LFMD - LA1 - 93 variable depending on door LA1 dimensions and type of hinge used)

LSD = Jamb opening (LFMD - 80)

ESD = Exterior jambs (LFMD - 20)

QF = Fixed dimension arms side

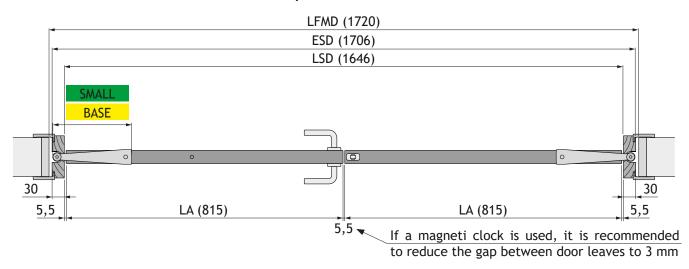
QV = Variable dimension handle side

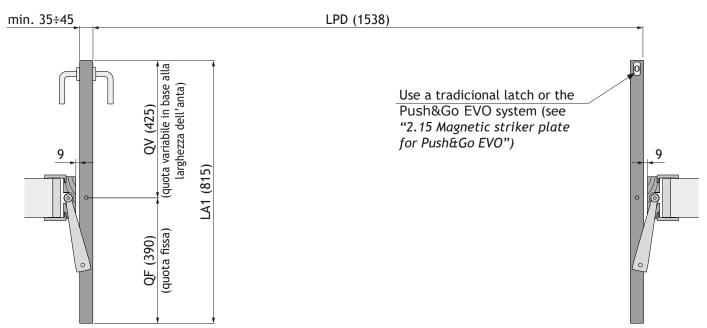


2.4 Double door horizontal dimensional drawing

Double ERGON door leaves

Dimensional example





The values given in this table refer to a door with frame thickness 30 mm and door thickness 45 mm.

In this case, it is possible to use track kits for single doors in combination with the dedicated union kit. For specifications see 2.14. and 2.15

LFMD = Wall opening width

LPD = Passage dimension (LFMD - 182)

LA1 = Door width ($\underline{LFMD} - 90$)

2

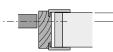
LSD = Jamb opening (LFMD - 74)

ESD = Exterior jambs (LFMD - 14)

QF = Fixed dimension arms side

QV = Variable dimension handle side

The door leaves can be positioned at the centre with respect to the thickness of the wall.



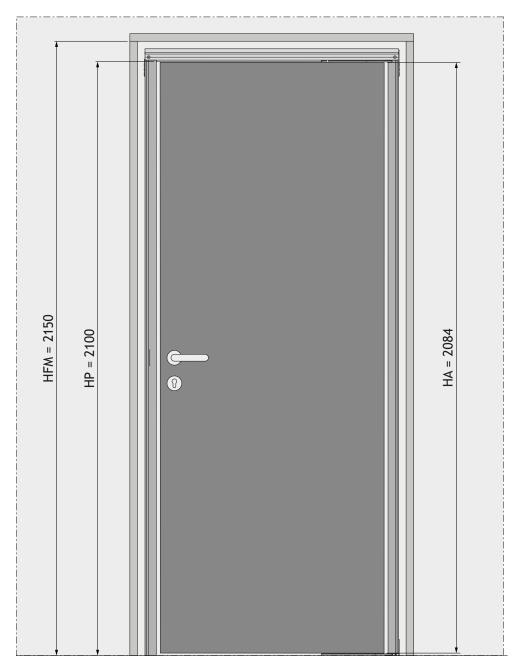
Oriented door

For the management of wall thicknesses see "2.6 Management of wall thicknesses".

mm



2.5 Vertical dimension drawing



VERTICAL DIMENSIONS					
HFM		HFM HP			
wall opening height		passage height	door leaf height		
*	1950	1900	1884		
*	2000	1950	1934	115 (1151) 50	
*	2050	2000	1984	HP = (HFM - 50)	
*	2100	2050	2034	HA = (HFM - 66)	
*	2150	2100	2084		
*	2200	2150	2134		
*	2250	2200	2184		

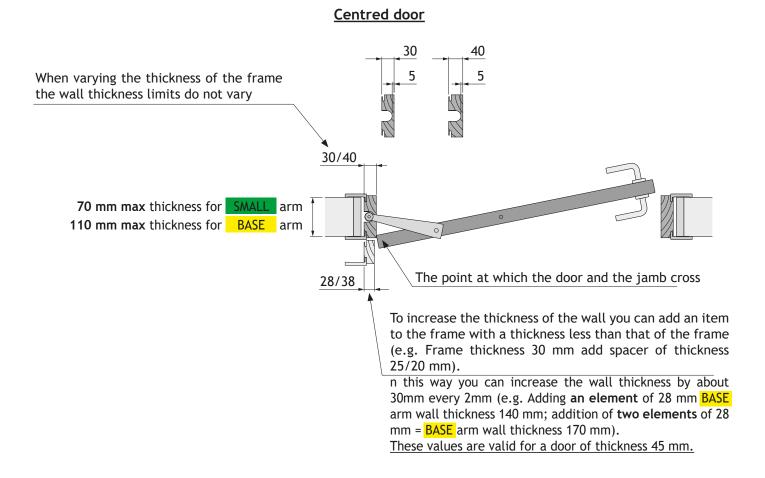
^{*} Standard Available sizes

Other measurements may be obtained by adjusting the connecting rod (see paragraph "2.13 Shortenable connecting rod kit") of prepared oversized kits. For bespoke rods, ask Celegon s.r.l. for feasibility.



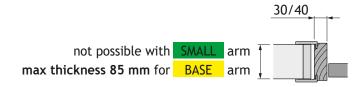
2.6 Management of wall thicknesses

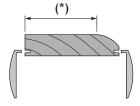
During opening, the **Ergon** system forces the door to recede from the arms side. In this way, when there are wall thicknesses of certain dimensions, the door approaches the jamb to the point in which they cross (see design below), which prevents the door from opening completely. On this page are some solutions that can be adopted.



Oriented door

Caution: Placing the oriented door from one side with respect to the wall decreases the thickness limit of the wall.

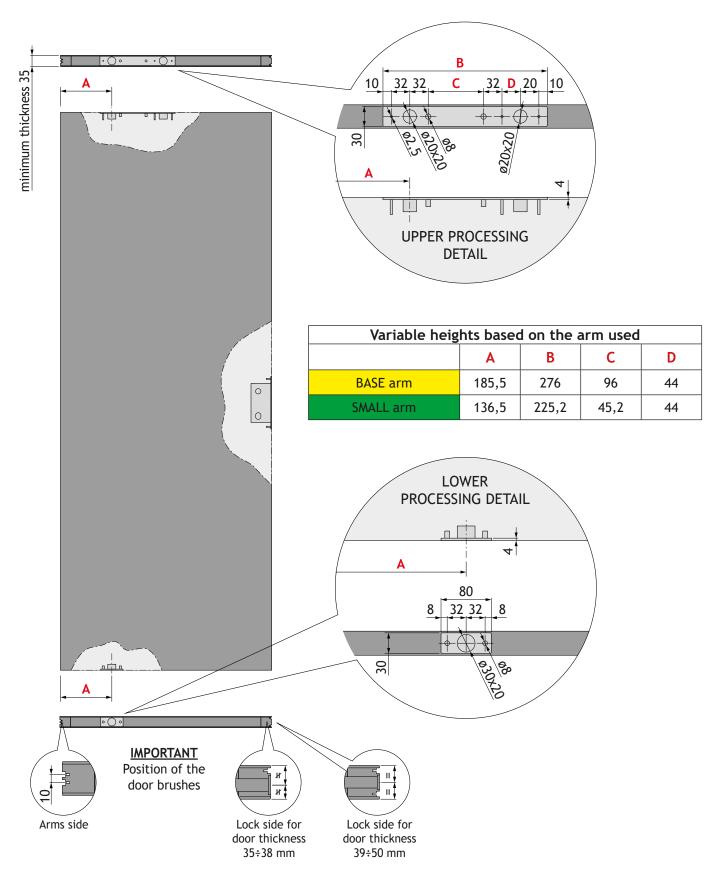




(*) When using rounded jambs, the limit value is to be considered only on the flat surface of the jamb and not on the rounded part.



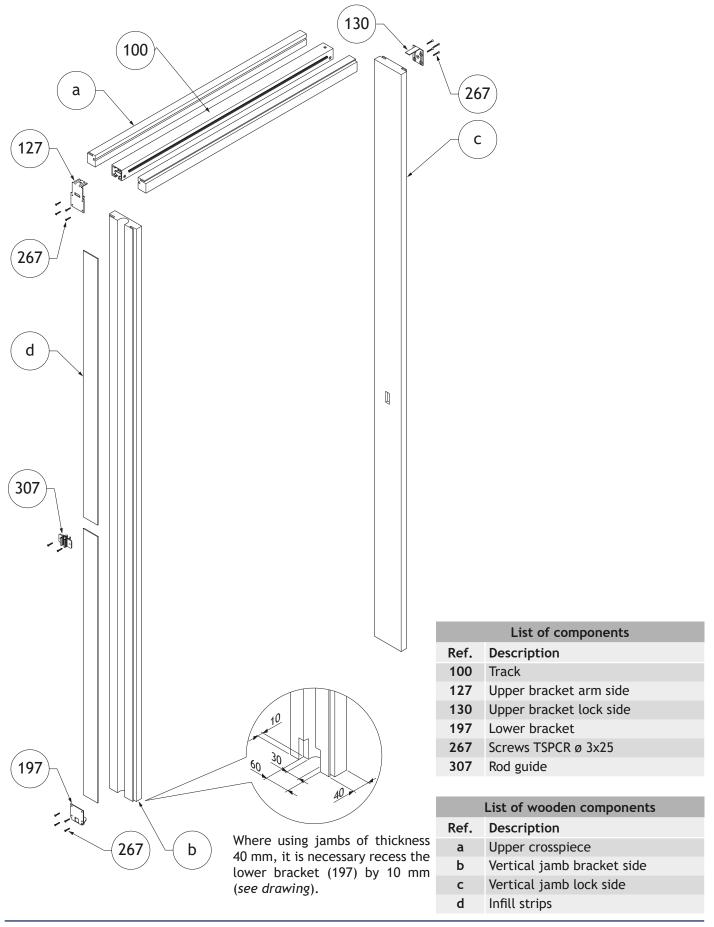
2.7 Specific door processing



We recommend using a lock with the facing not exceeding 18 mm.



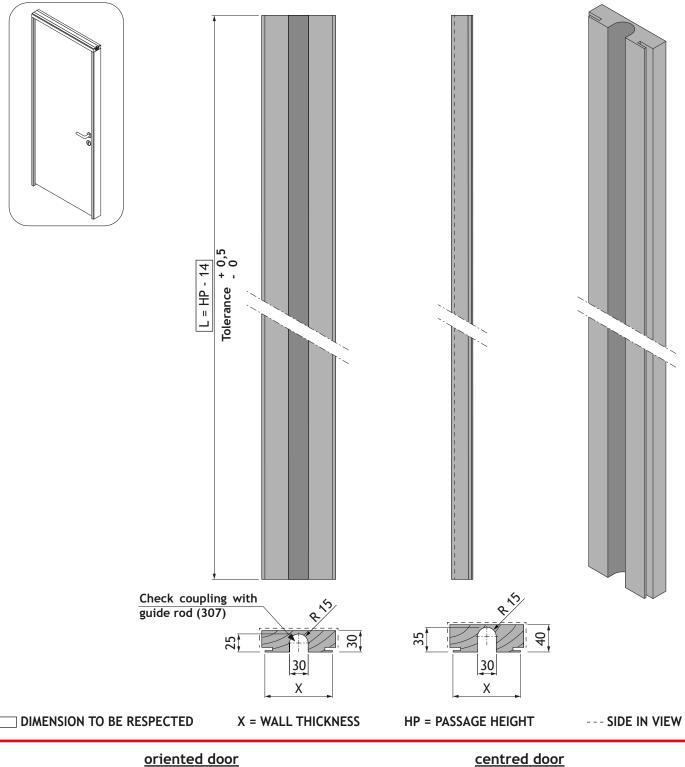
2.8 Exploded frame diagram (centred door)



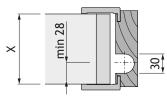


2.9 Construction details of the vertical frame arms side

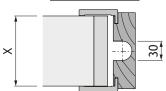
Jamb arms side







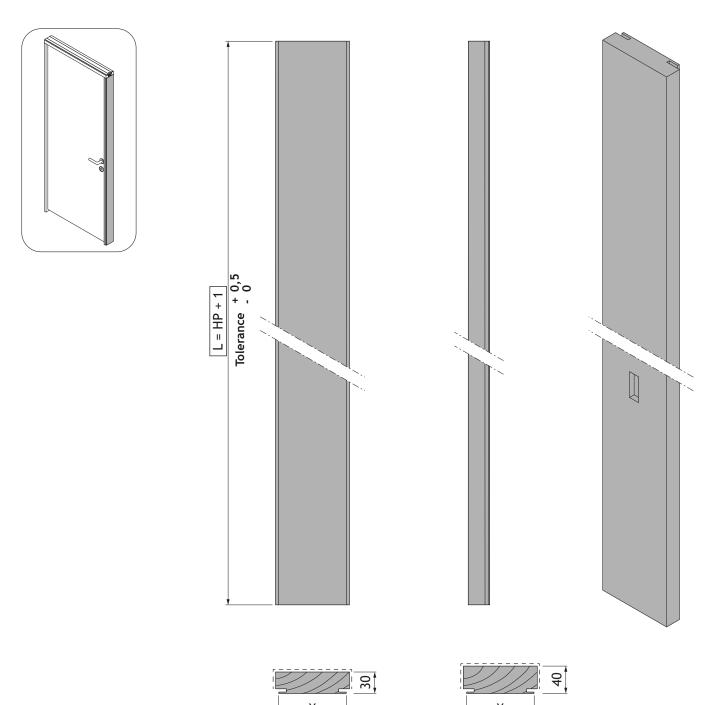
centred door





2.10 Construction details of the vertical frame lock side

Jamb lock side



DIMENSION TO BE RESPECTED

X = WALL THICKNESS

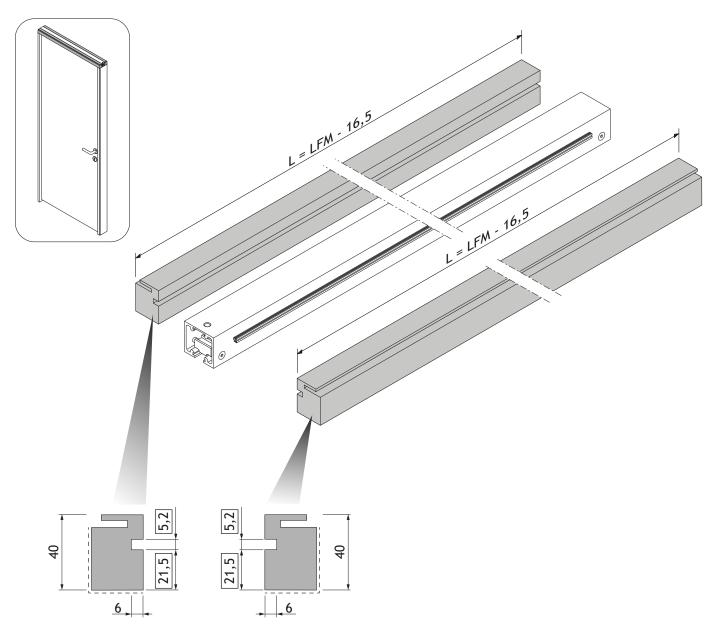
HP = PASSAGE HEIGHT

--- SIDE IN VIEW



2.11 Construction details of the upper crosspiece

Valid for frame thickness 30 and 40 mm

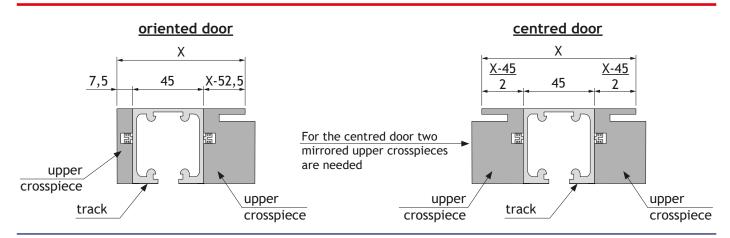


DIMENSION TO BE RESPECTED

X = WALL THICKNESS

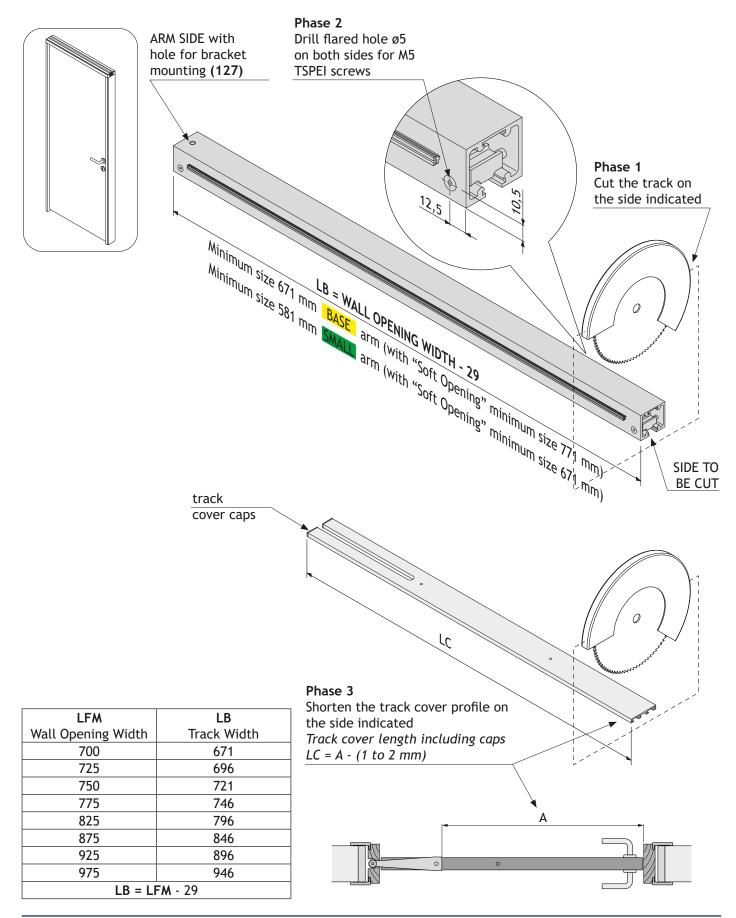
LFM = WALL OPENING WIDTH

--- SIDE IN VIEW





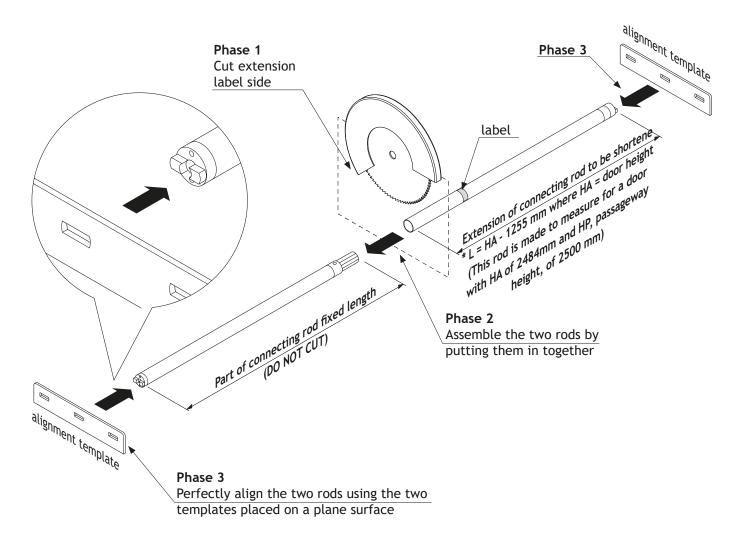
2.12 Track adjustment to the width of the door to be achieved

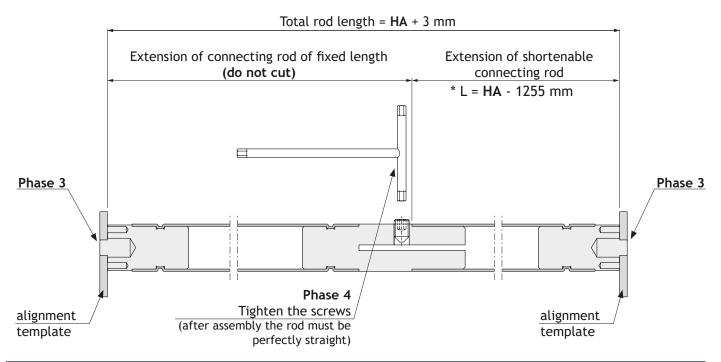




2.13 Shortenable connecting rod kit

Connecting rod adjustment for non-standard heights

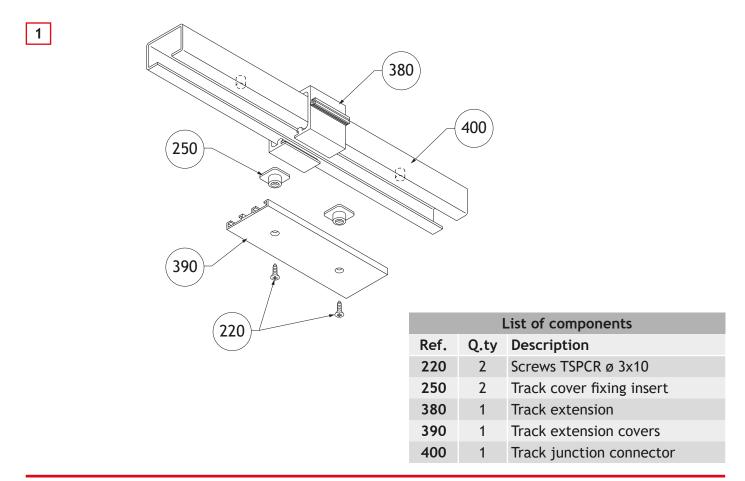




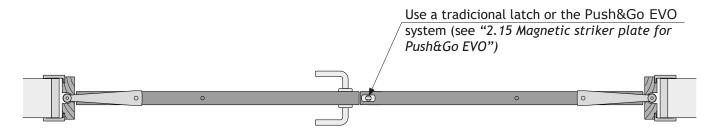


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2.14 Track union kit for double door with ERGON LIVING system



The measurements refer to a jamb of thickness 30 mm.



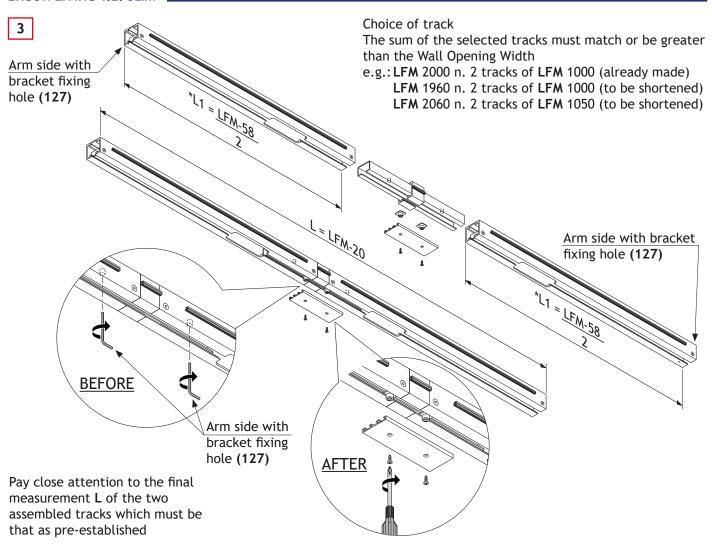
* N.B. For wall thickness limits see paragraph "2.6 Management of wall thicknesses" in this manual.

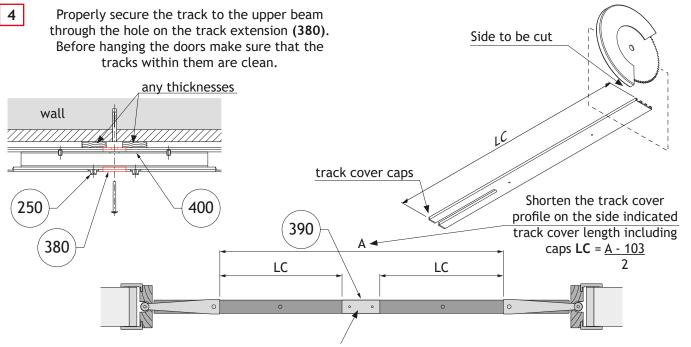
LFM minimum 1600 mm with BASE arm with "Soft Opening" LFM minimum 1700 mm

LFM minimum 1400 mm with SMALL arm with "Soft Opening" LFM minimum 1500 mm

For dimensions smaller than those indicated, contact Celegon s.r.l.







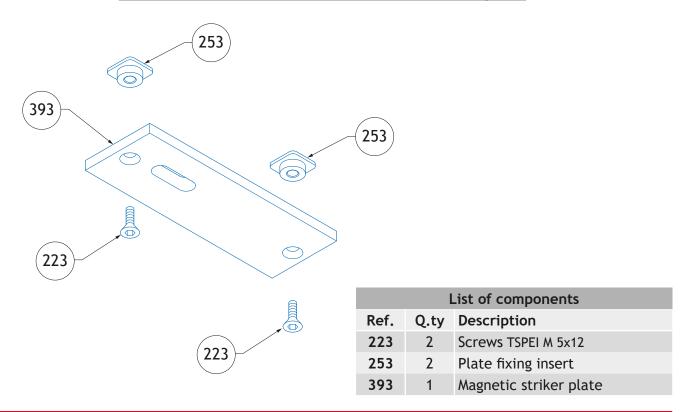
Create the opening to block the secondary door leaf for the traditional latch OR

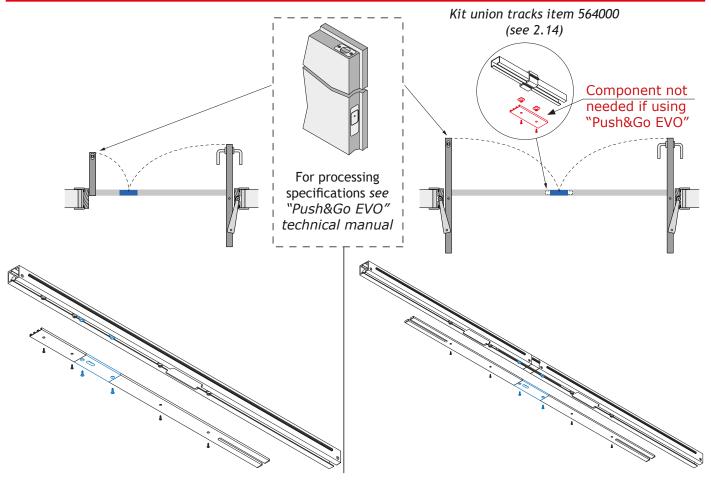
For the Push&Go EVO system use the dedicated kit (see "2.15 Magnetic striker plate for Push&Go EVO")



2.15 Magnetic striker plate for Push&Go EVO

For use with double door leaves with ERGON LIVING system







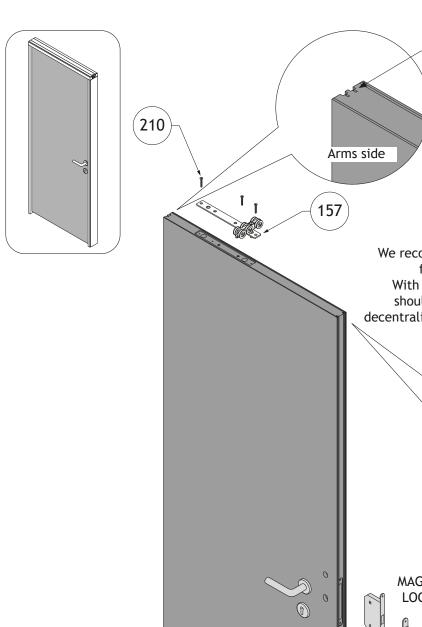
3. ASSEMBLY

3.1 Installation of hardware on the door leaf

LOCATIONS FOR BRUSH (or seal)

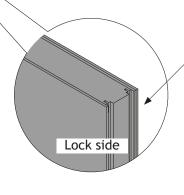
We recommend using a brush with density 3P without fin and projection from the door of 6/6.5 mm.

To position these locations see paragraph "2.7 Specific door processing"



We recommend using a brush with density 3P without fin and projection from the door of 4/4.5 mm. With doors of less than 39 mm thickness, the brush should be placed only on one side, the lock will be decentralized with respect to the thickness of the door.

To position these locations see paragraph "2.7 Specific door processing"





List of components				
Ref.	Q.ty	Description		
157	1	Upper plate with trolley		
175	1	Lower plate		
210	5	Screws TSPCR ø 4x40		

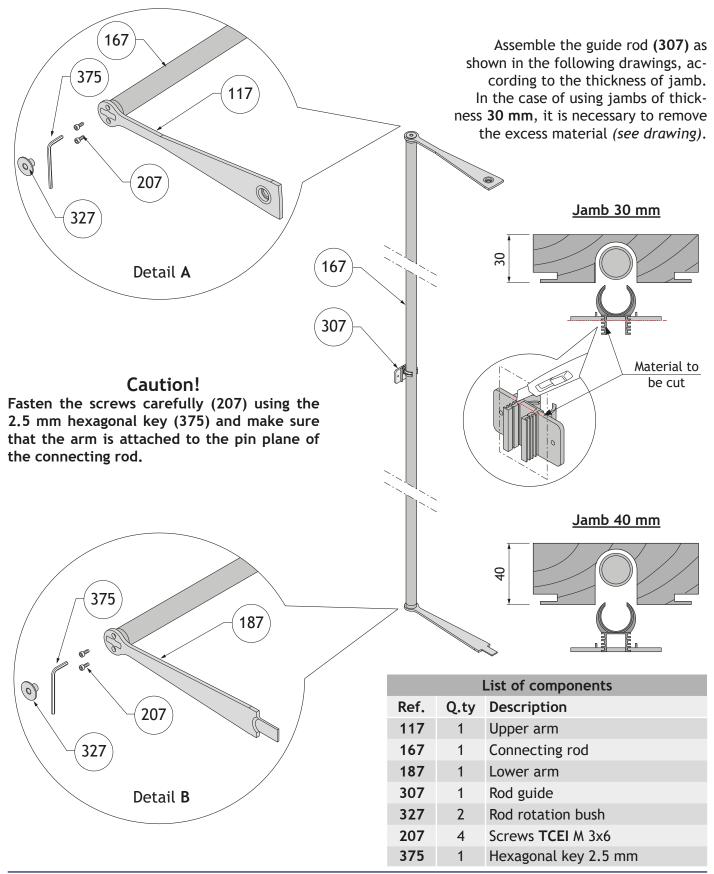
175

210



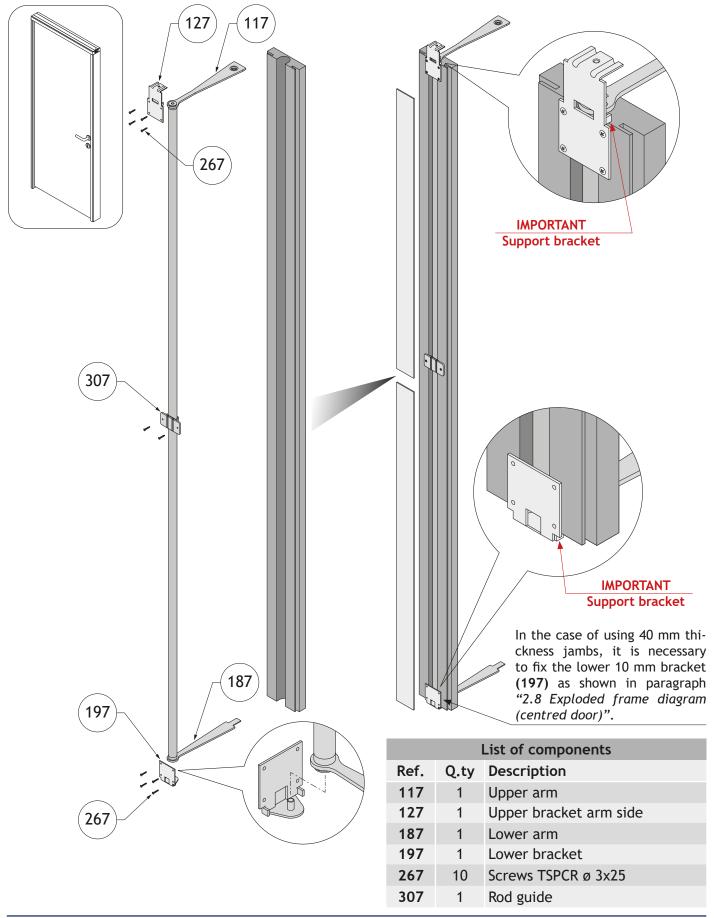
3.2 Connecting rod assembly with upper and lower arm

Mount the upper and lower arm on the rod. When inserting the bushing (327) pay attention to the pins on the same: they must fit into the hexagons present on the screw heads (207).



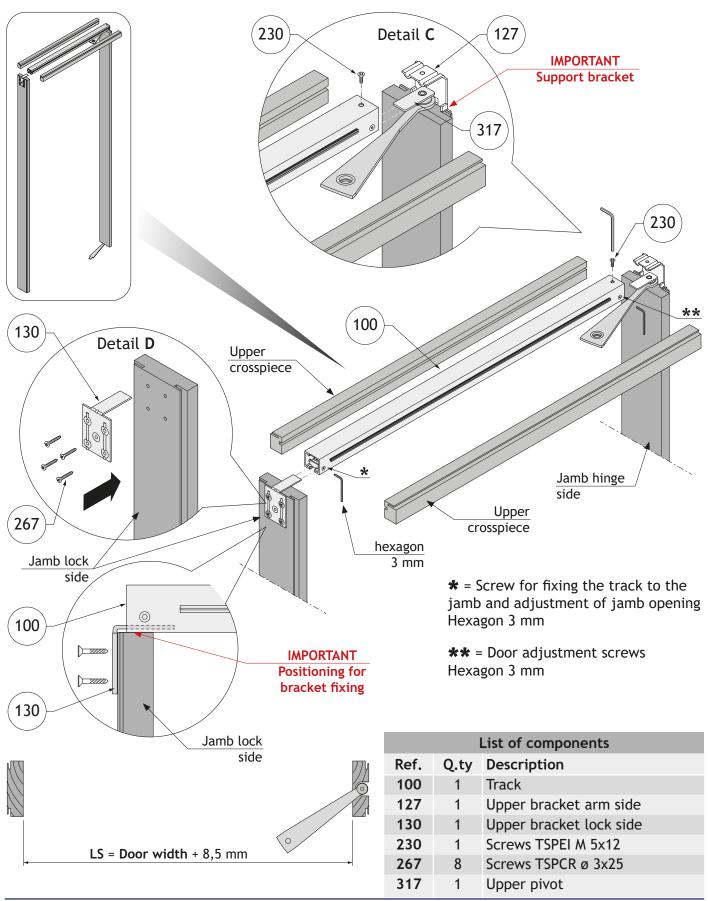


3.3 Assembly of hinge side jamb to the connecting rod





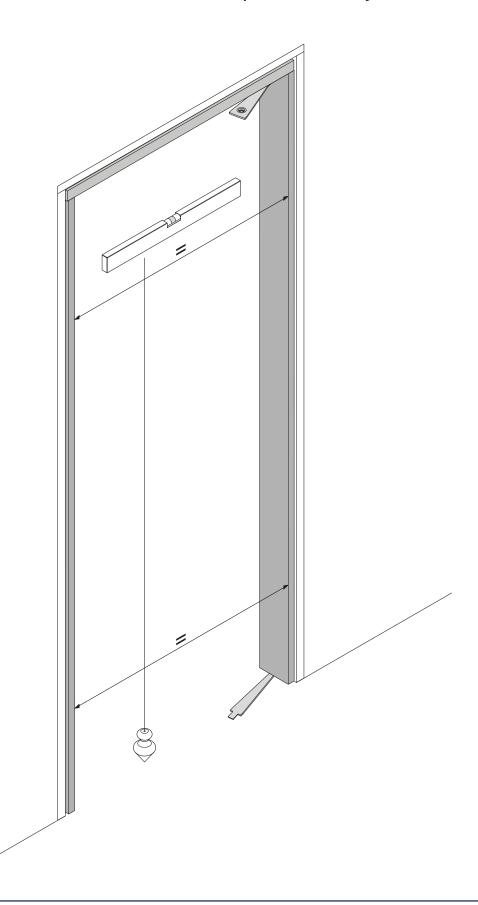
3.4 Assembly of frame and track





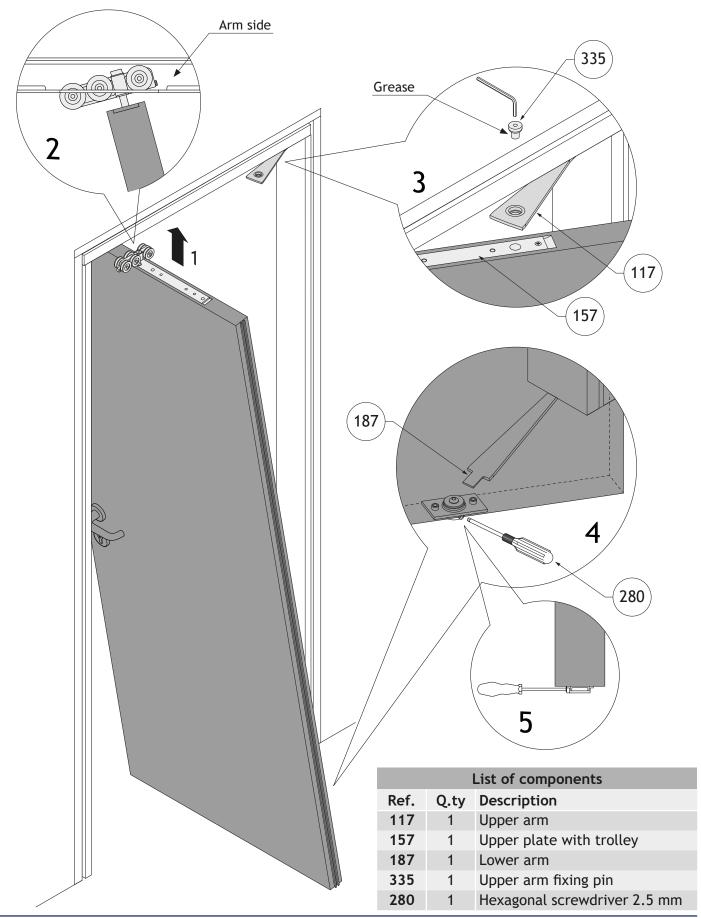
3.5 <u>Installation of complete jamb</u>

N.B.: Pay close attention to level of the track and the plumb line of the jambs



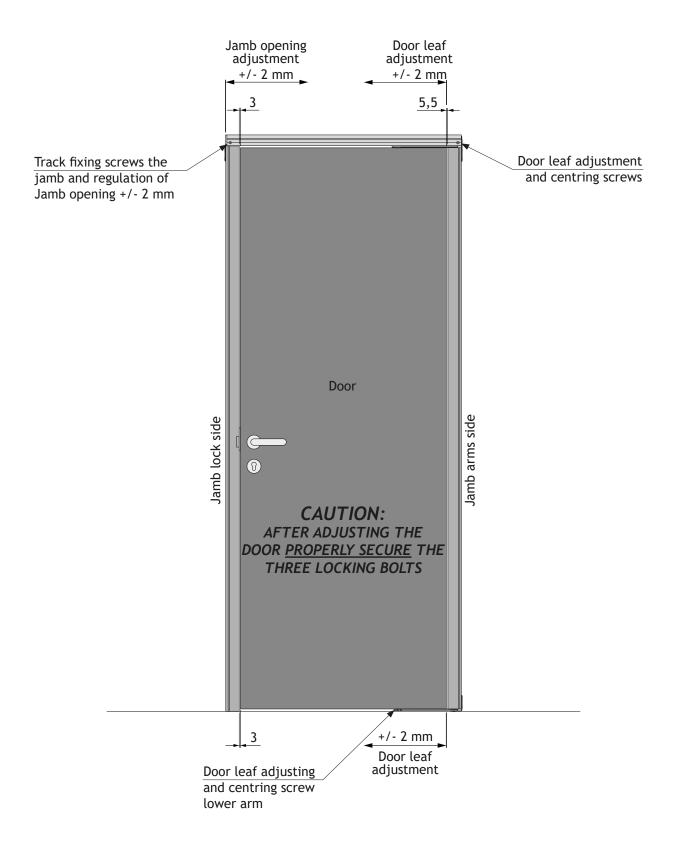


3.6 Door leaf installation



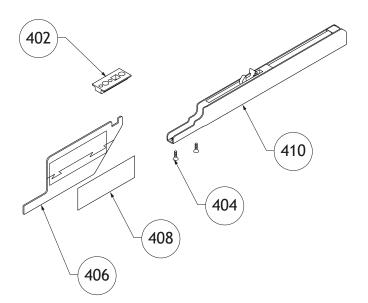


3.7 Door leaf and frame adjustment





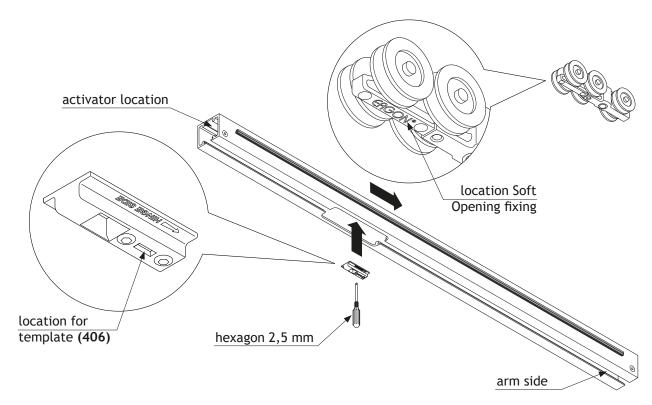
3.8 "Soft Opening" damper installation (Optional)



List of components				
Ref.	Q.ty	Description		
402	1	Activator		
404	2	Screws TSP+ M3x8		
406	1	Activator positioning template		
408	1	Sticker		
410	1	Soft Opening		

Phases of installation

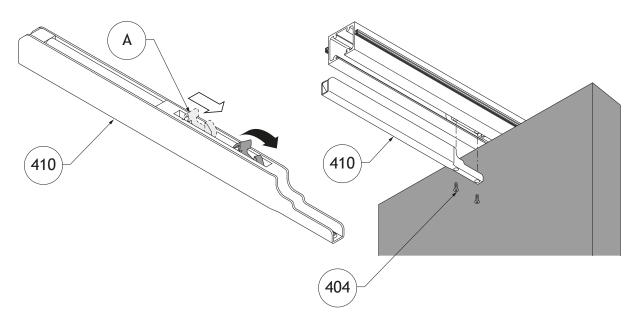
- 1. Assemble and secure the jambs and track to the wall.
- 2. Check that the trolley provided has support for the attachment of the Soft Opening.



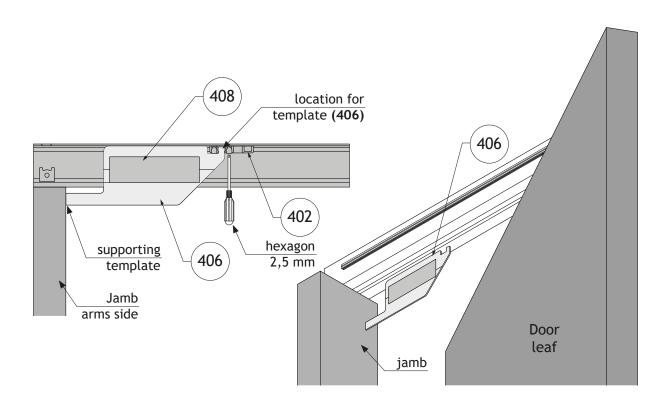
- 3. Slide the activator (402) into its location in the track paying attention to the instructions. The activator must be brought temporarily to the stop on the hinge part of the arm.
- **4.** Attach the door leaf and secure the hinge arms. Follow the standard settings of the door and open the door leaf completely.

N.B. In the case of a door already installed insert the activator in the location of the track after having dismantled the track cover.





5. Push the hook (A) to load the Soft Opening (410) and secure it to the trolley with the screws (404) supplied.

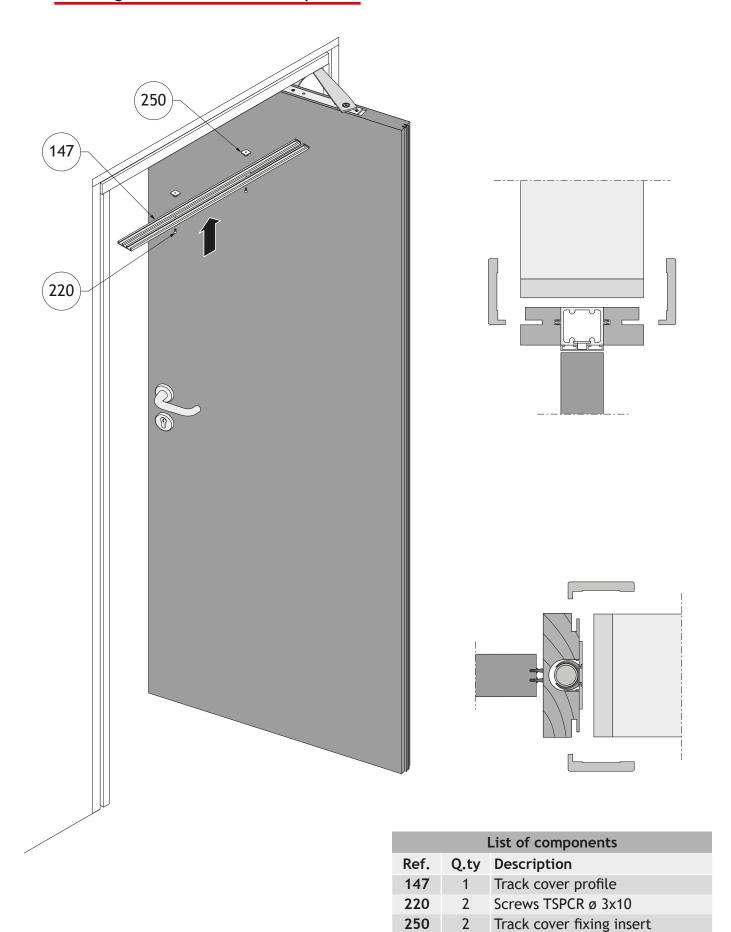


- 6. Join the two parts of the template (406) using the sticker (408).

 Take the door leaf to 45° and place the template (406) to the jamb dragging the activator (402) into the correct position, firmly attach the locking screws.
- **7.** Check the correct operation of the Soft Opening. Complete the installation of the door.



3.9 Mounting frames and track cover profiles





ERGON LIVING I.E. SLIM	
NOTE	
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NOTE	



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