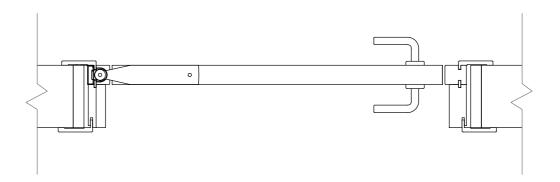




# duo swing

#### Full technical installation instruction



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#### INTRODUCTION

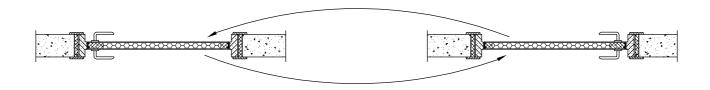
Duo Swing is ideal for internal residential doors, which is built for doors unsuitable to contain the connecting rod between the two arms, such as glass, mirror, solid wood doors, etc. As a result of that the rod is positioned inside the jamb. Duo swing is certified by the research institute and test laboratory CATAS according to EN 1119 standards and has passed 100.000 opening and closing cycles.

Door thickness as 35-50 mm can be achieved and a maximum weight of 70 kg.

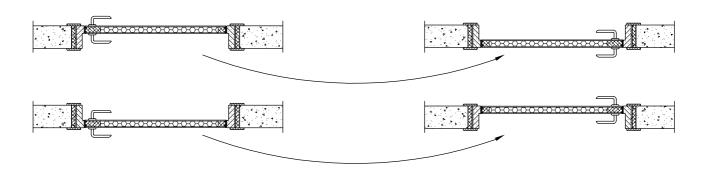
The standard finishes available for the duo swing are silver and black.

Depending on particular requirements, the door with the duo swing hardware can be built so that the door can be situated in any position inside the wall thickness. Two installation are descriped as follows:

1) "centered door" when the door leaf is in the middle of the thickness of the wall;



2) "flush door" when the door is flush with one of the two sides of the wall;



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#### WALL THICKNESS

With the Duo swing system it is important to pay attention to the wall thickness limits see at pag. 5-6

#### **LOCK**

Duo swing, two way of opening permit the use of two different types of latch/lock mechanisms, each with its own functional characteristics:

- Magnetic latch. This type of latch was designed for traditional doors that open one way only. If used with a two way opening, it does not work well unless the door is moved by hand to the closed position. If the door is pushed, even lightly, the magnetic latch is not activated and the door continues its swing past the closed position.
- (AGB) latch/lock mechanism. This type of closure is modified to replace the standard latch, which allows the door to close in a manner similar to a standard door with stop. Unlike the magnetic latch, even if the door is pushed with some force it will stop in the closed position.

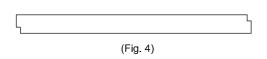
Duo swing one way opening with stop.

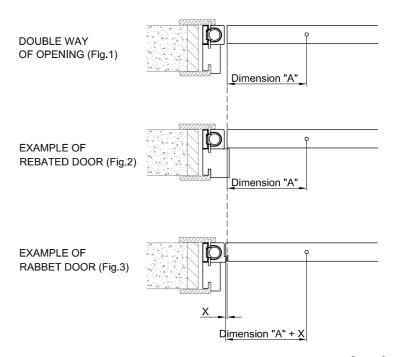
With one way opening, you can use any latch mechanism, although optimal function is provided by a magnetic latch.

#### REBATED DOOR WITH ONE-WAY OPENING

In some home's rooms can be more suitable using rebated doors with Duo swing, this is possible by putting some rebates on the vertical door sides. With this way you cannot achieve double-way opening, but there is a better acustic isolation inside the room by using a gasket.

In the drawings on the right side there are two examples (fig. 2-3) of duo swing rebated door. In order to prepare the rebates 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 page 9.





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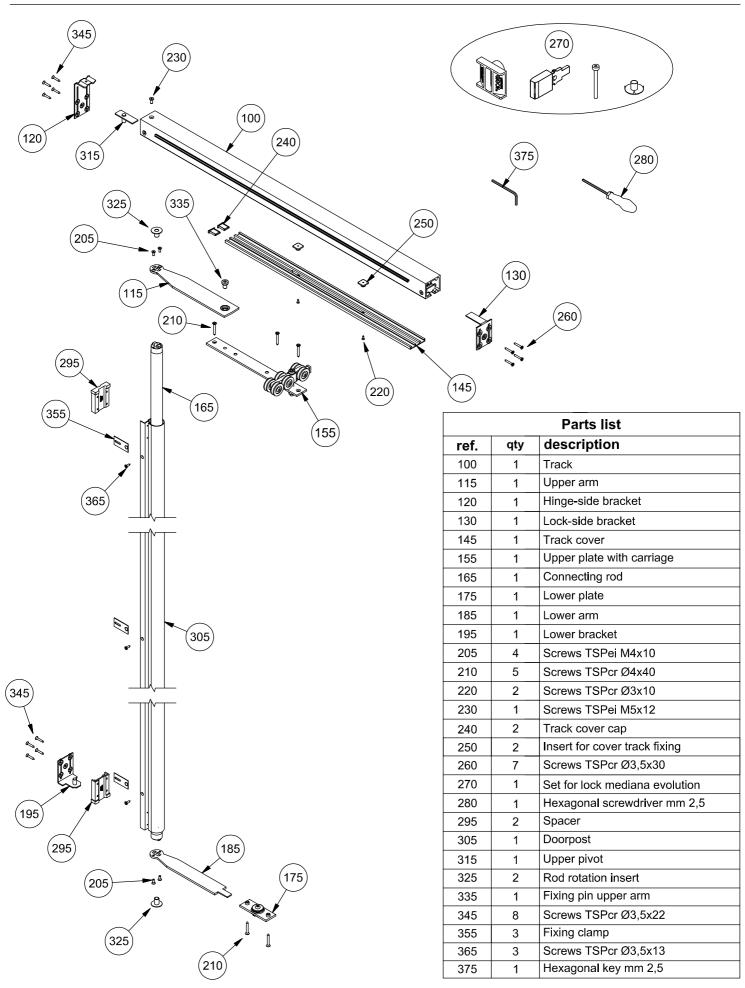


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Exploded view of the hardware		page	4
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Dimensional diagram of the <u>centered door</u> with arm	"BASE"	page	6
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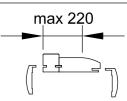
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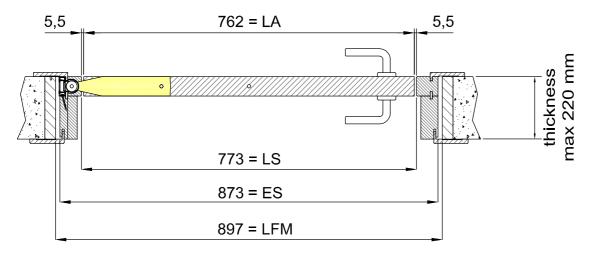
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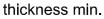


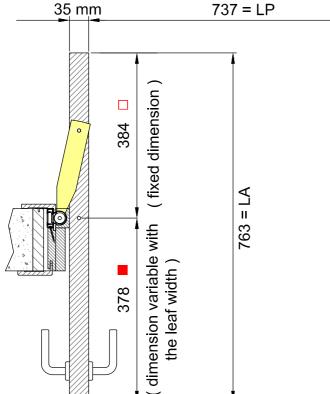
#### WALL THICKNESS UP TO 220 mm

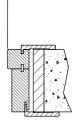
If rounded jambs are used, the above thickness wall dimension must be calculated only on the plane surface and not on the rounded side.











	LEGEND
LP	= Passage dimensions(LFM - 160)
LA	= Leaf Width (LFM - 135)
LS	= Door Jamb opening (LFM - 124)
ES	= Outer Jamb (LFM - 24)= lenght of the upper crossbeam
LFM	= Wall Hole Width
The di	improvious on the technical drawings refer to the 000 Wall Hale Width and

The dimensions on the technical	drawings refer to the 900 Wall Hole Width and
it is the dimension in which the er	ncumbrance of the open door is symmetric.

DOOR ENCUMBRANCE			
LFM WALL HOLE WIDTH	LP PASSAGE DIMENSION	<b>LA</b> DOOR LEAF WIDTH	MAX ENCUMBRANCE OF THE OPEN DOOR
700	540	565	384 🗌
750	590	615	384 🗌
800	640	665	384 🗌
* 821	657	686	384 🗌
* 897	737	762	384
* 973	809	838	454 🔼

<sup>\*</sup> Available stardard dimensions: it is possible to have other dimensions, even intermediate dimensions (see page 14) by adjusting the track.

See in evidence the minimum measurre possible by using "Soft Opening" kit pages 32-33

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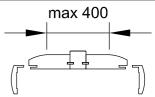
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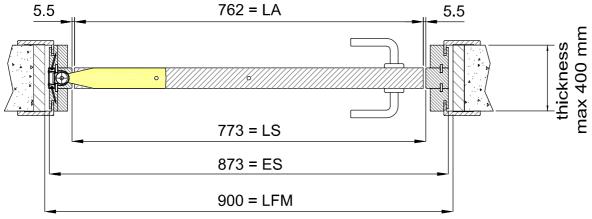
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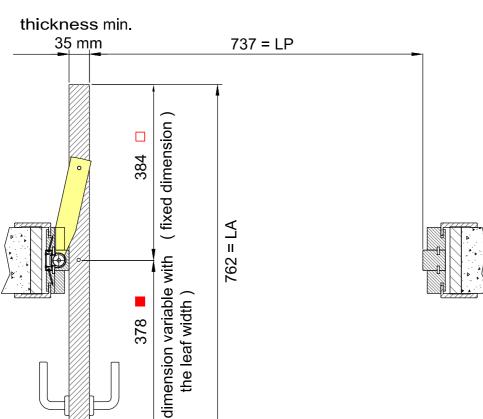
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#### WALL THICKNESS UP TO 400 mm

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







	LEGEND
LP	= Passage dimensions(LFM - 160)
LA	= Leaf Width (LFM - 135)
LS	= Door Jamb opening (LFM - 124)
ES	= Outer Jamb (LFM - 24) = lenght of the upper crossbeam
LFM	= Wall Hole Width
The d	imensions on the technical drawings refer to the 900 Wall Hole Width and

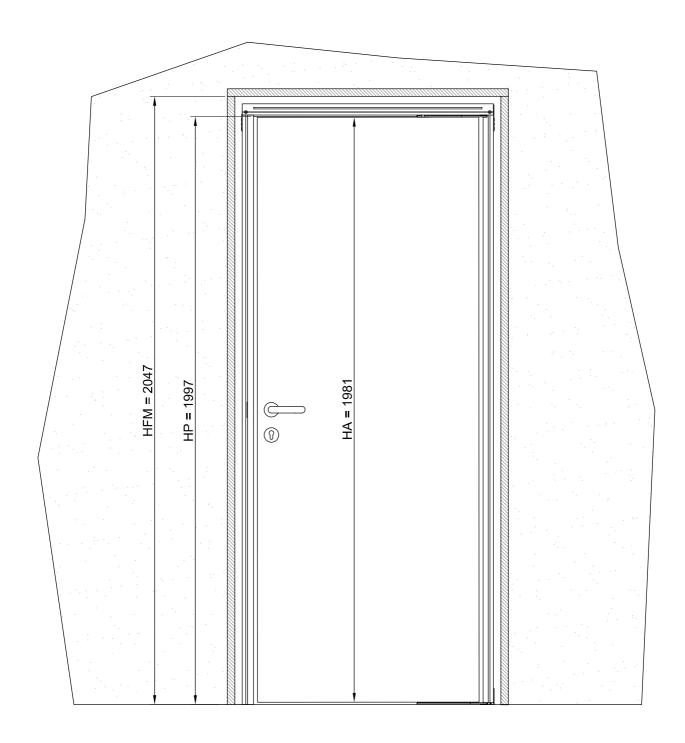
it is the dimension in which the encumbrance of the open door is symmetric.

DOOR ENCUMBRANCE			
LP PASSAGE DIMENSION	<b>LA</b> DOOR LEAF WIDTH	MAX ENCUMBRANCE OF THE OPEN DOOR	
540	565	384	
590	615	384 🗌	
640	665	384 🗌	
657	686	384 🔲	
737	762	384 🔲	
809	838	454	
	LP PASSAGE DIMENSION 540 590 640 657 737	LP         LA           PASSAGE DIMENSION         DOOR LEAF WIDTH           540         565           590         615           640         665           657         686           737         762	

\* Available stardard dimensions: it is possible to have other dimensions, even intermediate dimensions (see page 14) by adjusting the track.

See in evidence the minimum measeure possible by using "Soft Opening" kit pages 32-33



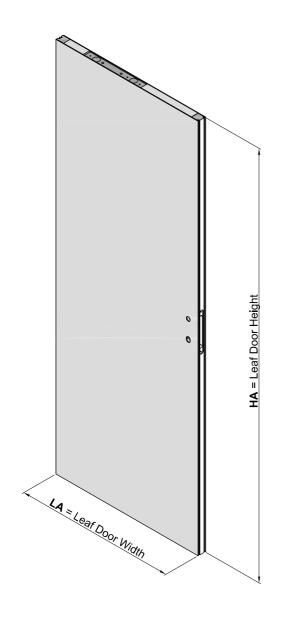


VERTICAL DIMENSIONS			
HFM     HP     HA       wall hole height     passage dimension     door leaf height       HA = (HFM - 6)			
* 2047	1997	1981	1177 (111101 00)

<sup>\*</sup> Available standard dimensions; it is possible to have other dimensions, even intermediate dimensions, by adjusting the doorpost (see page 15) and the connecting rod (see page 16).

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3HT	VERTICAL DIMENSIONS			
) НЕІСНТ	HP= (HFM-50) HA= (HFM-66)			
STANDARD	HFM	HP HA		
I AN	WALL HOLE HEIGHT	HEIGHT PASSAGE DIMENSION	DOOR LEAF HEIGHT	
S	2250	2200	2184	

Available standard dimensions: it's possible to have other dimensions, even intermediate dimensions, by adjusting the doorpost (see page 15) and the connecting rod (see page 16).

Minimum dimension with "Soft Opening" BASE Arm

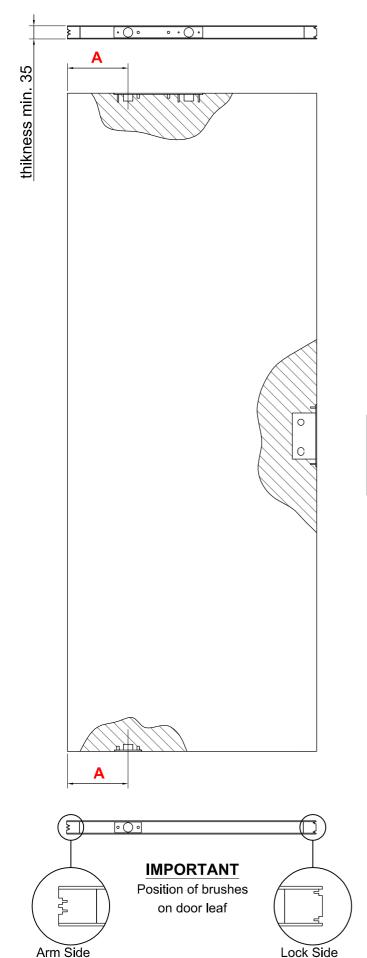
	HORIZONTAL DIMENSIONS		
LP= (LFM-160) LA= (LFM-135)			
BASE	LFM	LP	LA
	WIDTH WALL HOLE	WIDTH PASSAGE DIMENSION	DOOR LEAF WIDTH
•	700	540	565
•	750	590	615
•	800	640	665
•	821	657	686
•	897	737	762
•	973	809	838
<ul><li>Available Standard dimensions</li></ul>			

Available dimensions, by adjusting the track, see page 14 (it is possible to have intermediate dimensions)

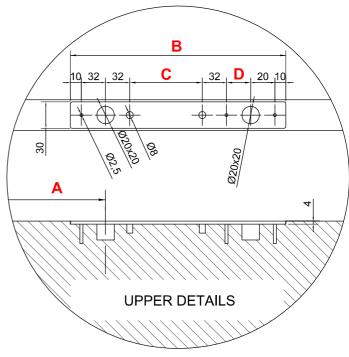
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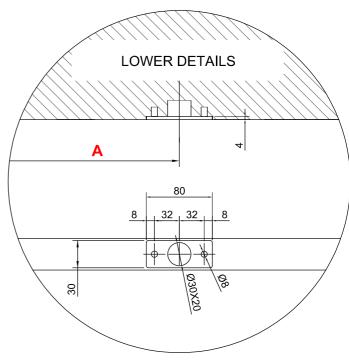
REV. 8



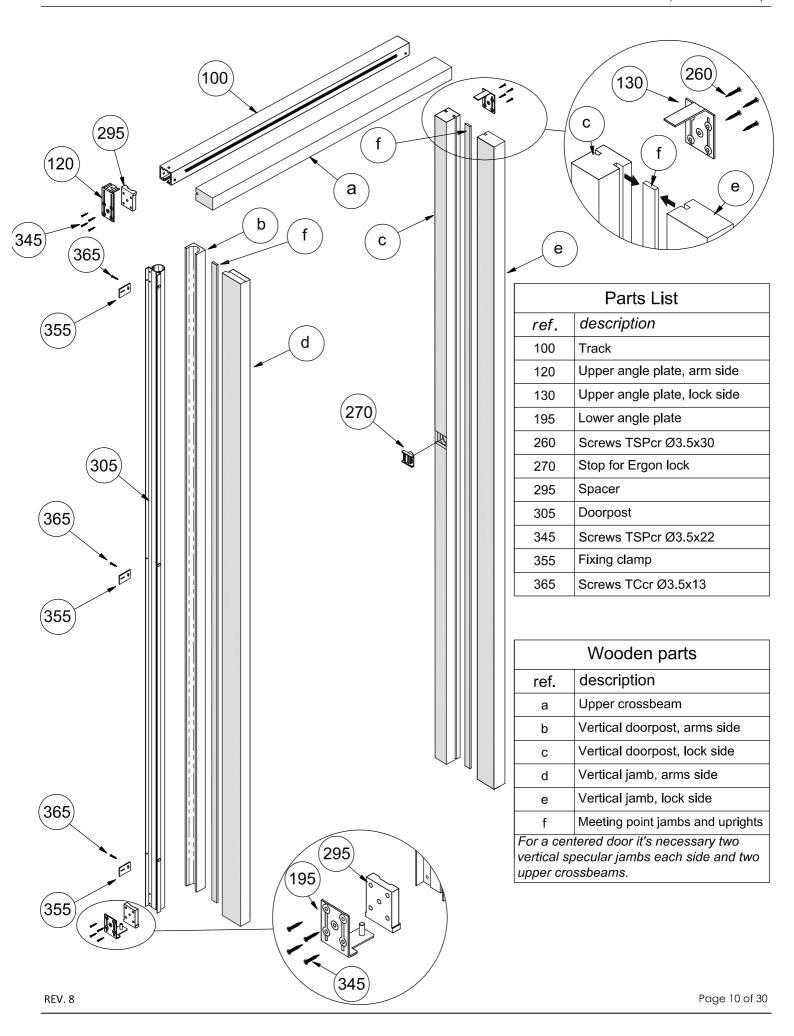
Lock Side



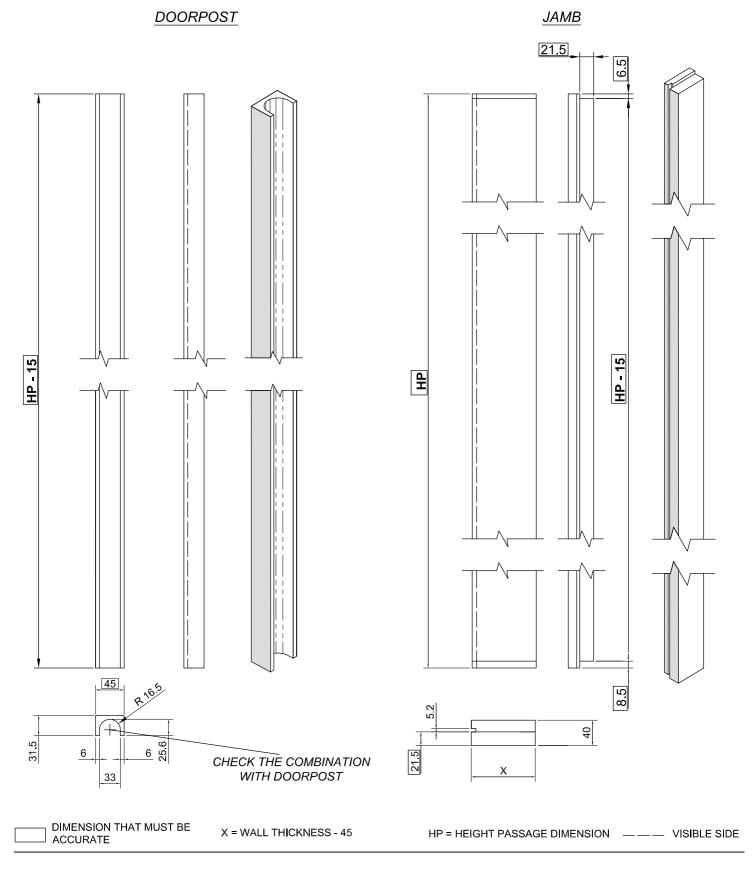
Variable measures according to arm used				
	A	В	С	D
BASE Arm	180,5	276	96	44



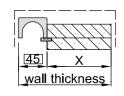






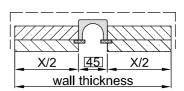


#### ORIENTED DOOR

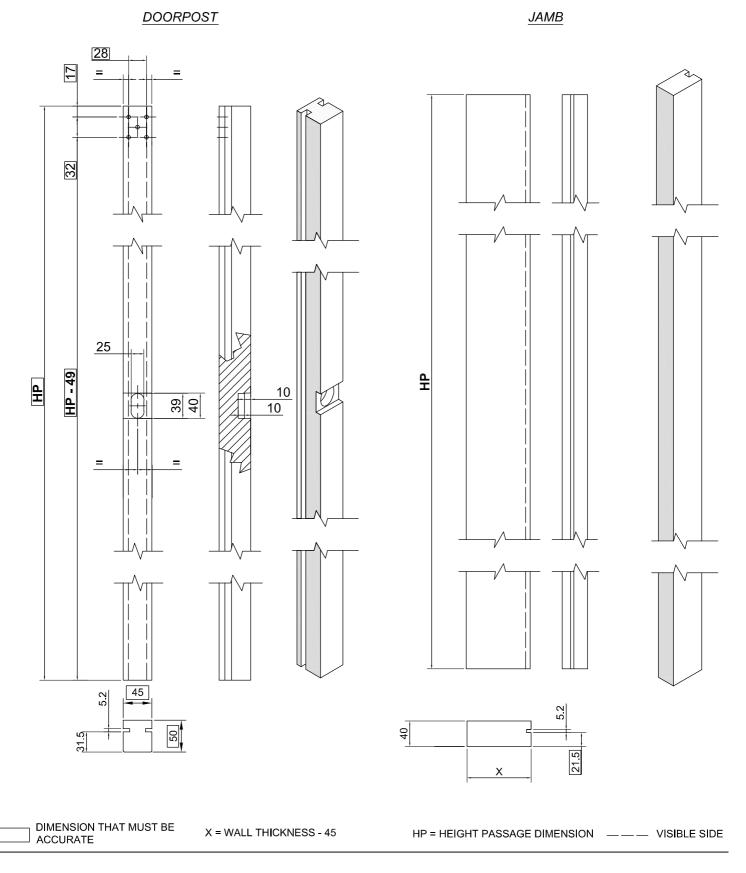


When the door is in the middle of the wall, you must have two specular jambs

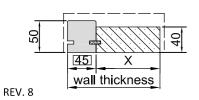
#### CENTERED DOOR





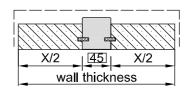


#### ORIENTED DOOR

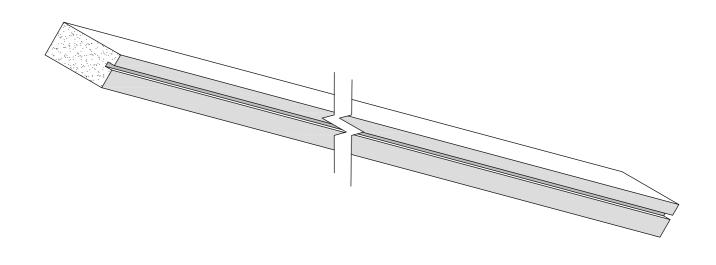


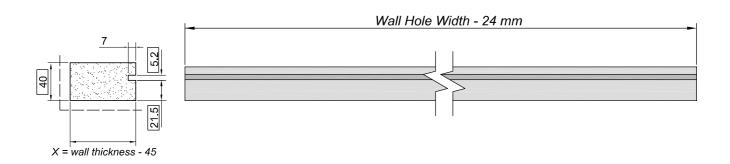
When the door is in the middle of the wall, you must have two specular jambs

#### CENTERED DOOR

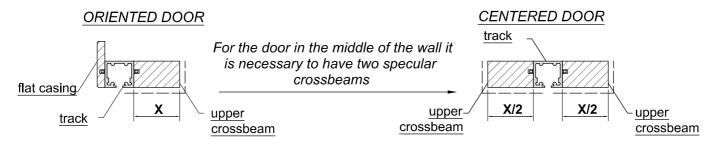






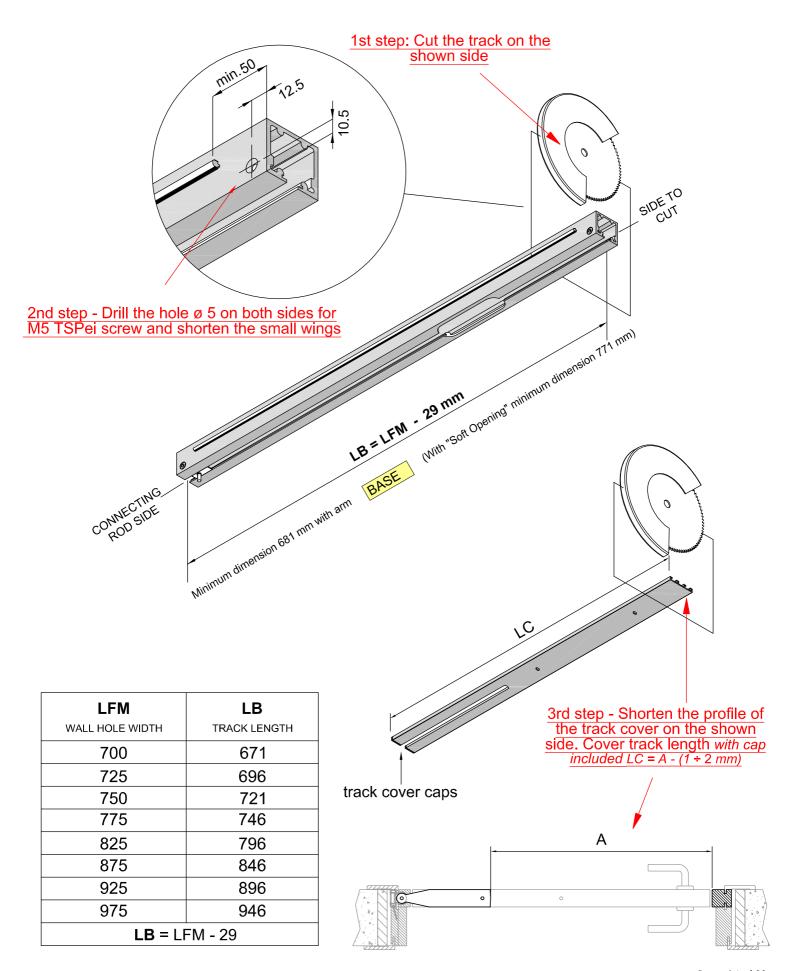






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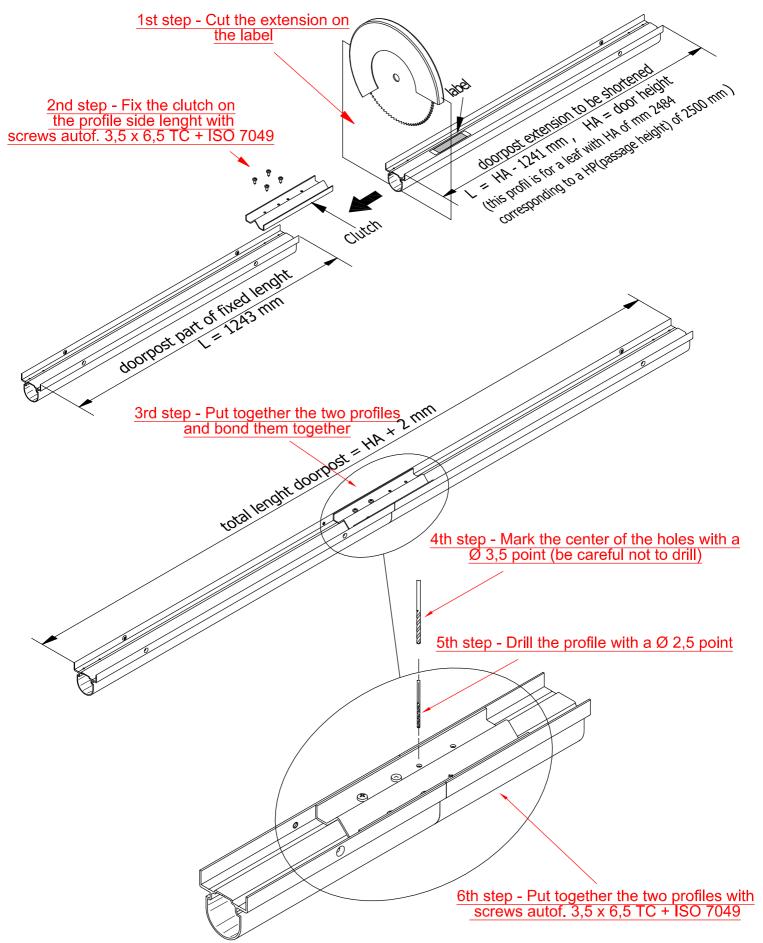




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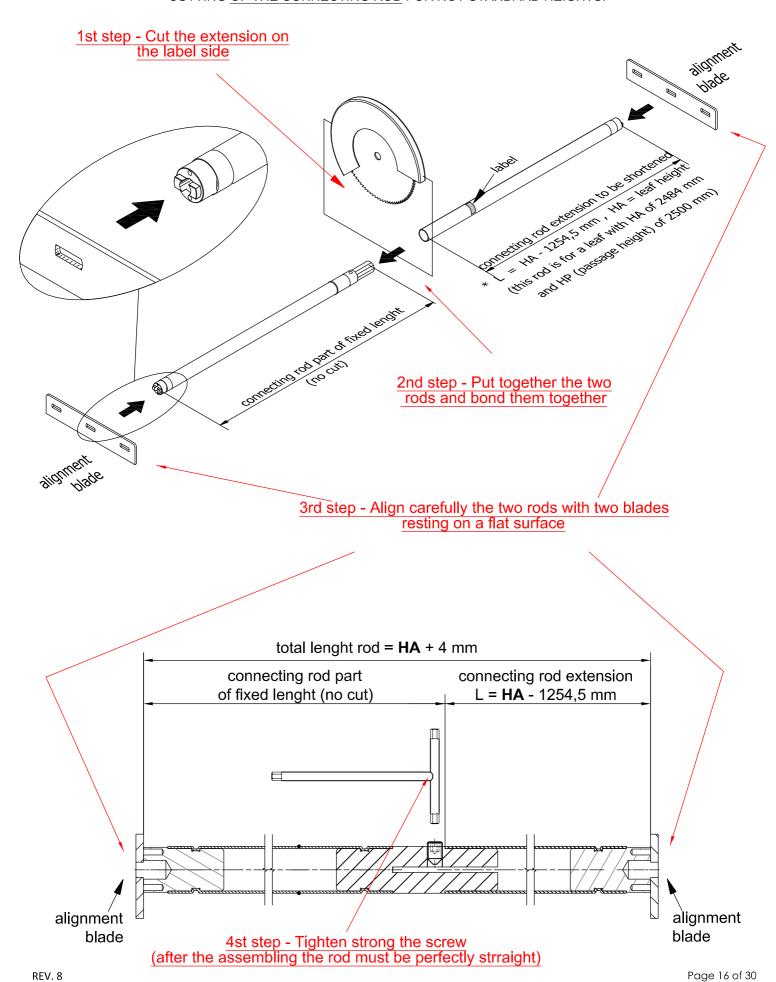
#### CUTTING OF THE DOORPOST FOR NOT STANDARD HEIGHTS.



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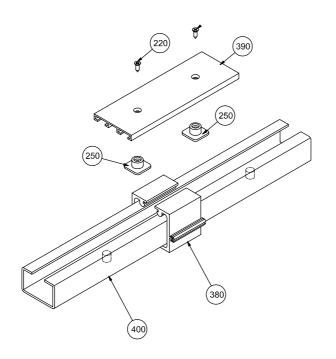


#### CUTTING OF THE CONNECTING ROD FOR NOT STANDARD HEIGHTS.

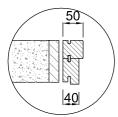


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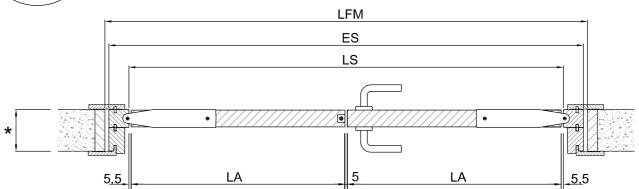




		Part list
rif.	q.ty	DESCRIPTION
220	1	Screw TSPcr Ø3X10
250	2	Track cover installation insert
380	1	Track extension
390	1	Track cover extension
400	1	Track graft junction



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

Legend

**LP** = **P**assage **D**imension (LFM - 200)

**LA** = **D**oor **L**eaf **Wi**dth (LFM - 136)

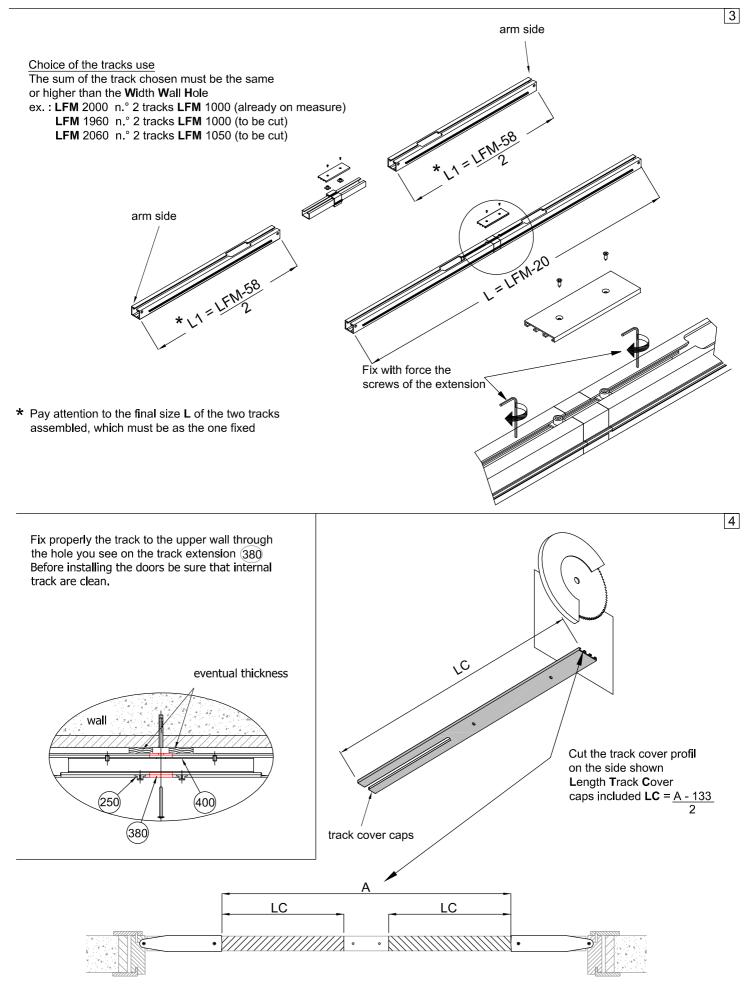
LS = Door Jamb Opening (LFM - 120)

ES = Outer Jamb ( LFM - 20 = length of the track and upper crossbeam )

LFM = Wall Hole Width

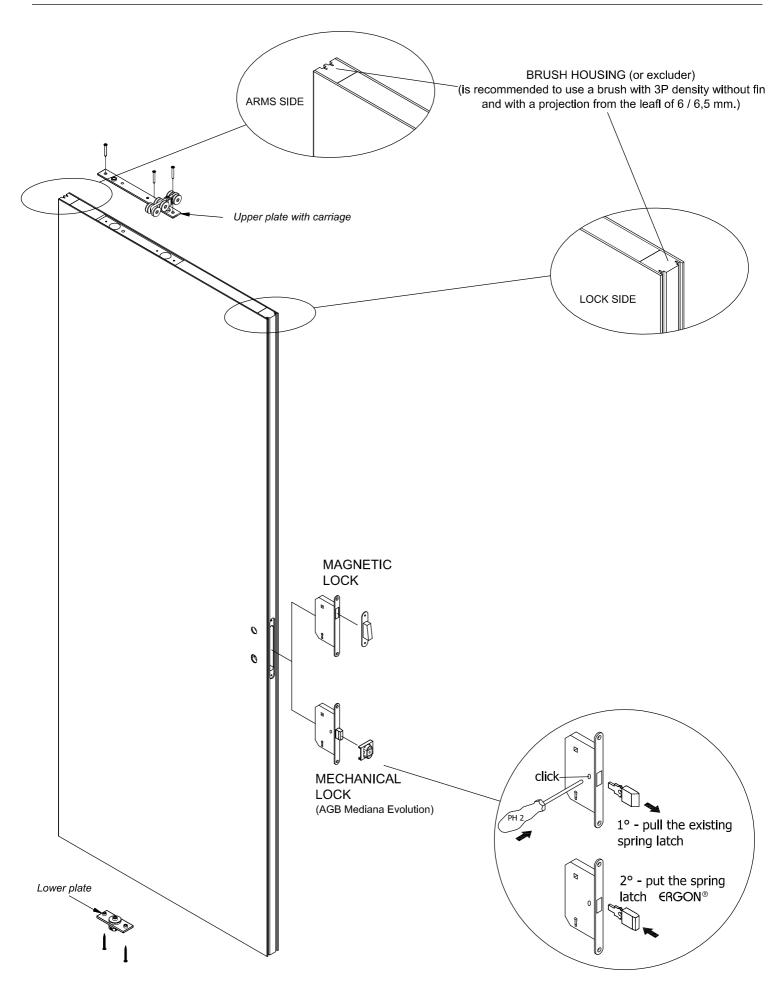
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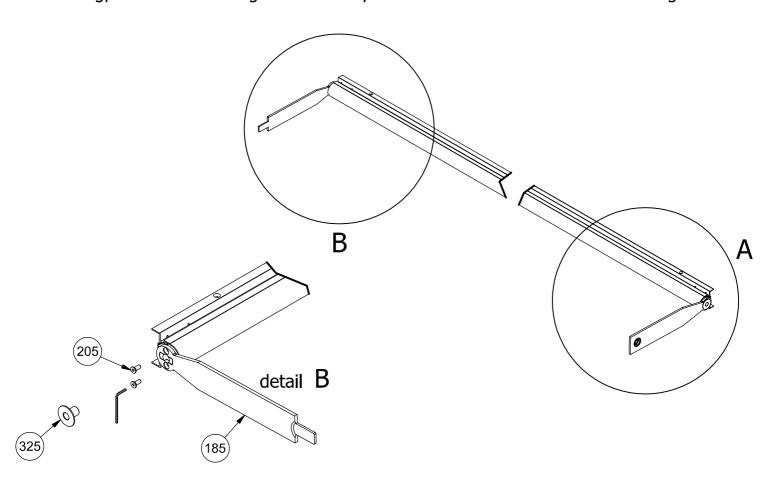




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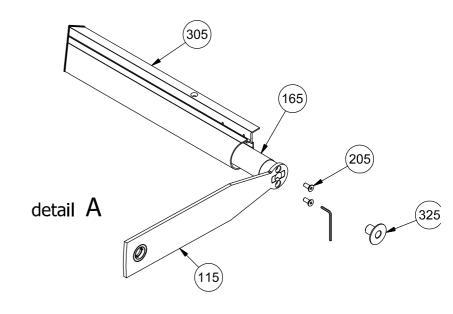


Install the upper and lower arms into the rod which is already inside the aluminium profile and mind the alignment, when you insert the brasses be careful to the kingpins on the bearing brasses: they must be inserted in the screws' hexagons.



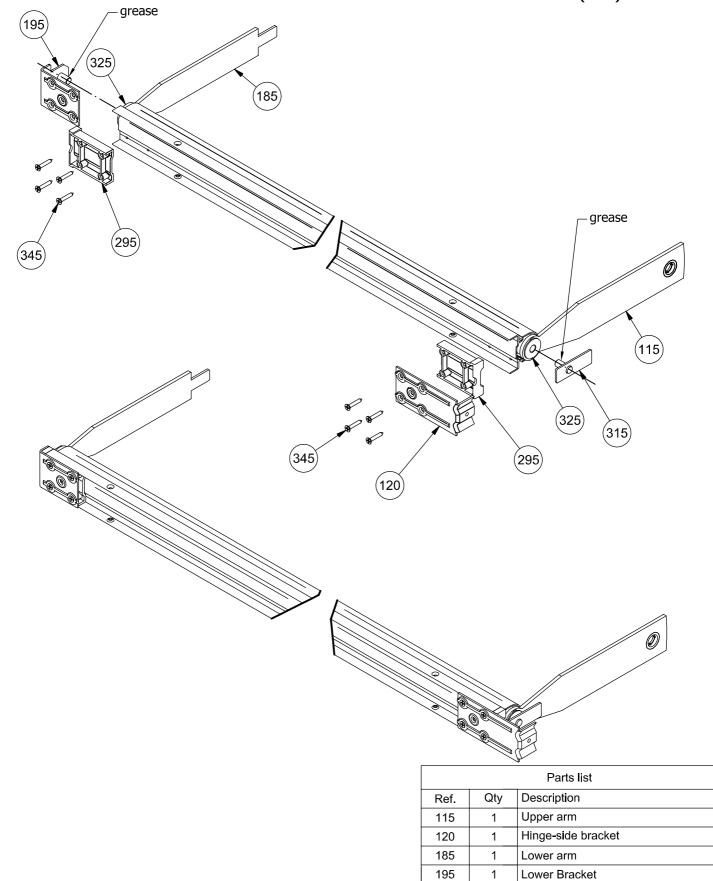
Attention!
Tighten firmly the screws (205)
with a hexagonal spanner 2,5 mm.
Make sure that the arm adheres to the pin plate of the connecting rod.

Parts list		
Ref.	Qty	Description
115	1	Upper arm
165	1	Connecting rod
185	1	Lower arm
305	1	Doorpost
325	2	Rod rotation brass
205	4	Screw TSPei M4x10 - ISO 10642





### N.B.: check the correct brasses (325) installation.



295

315

325

345

2

1

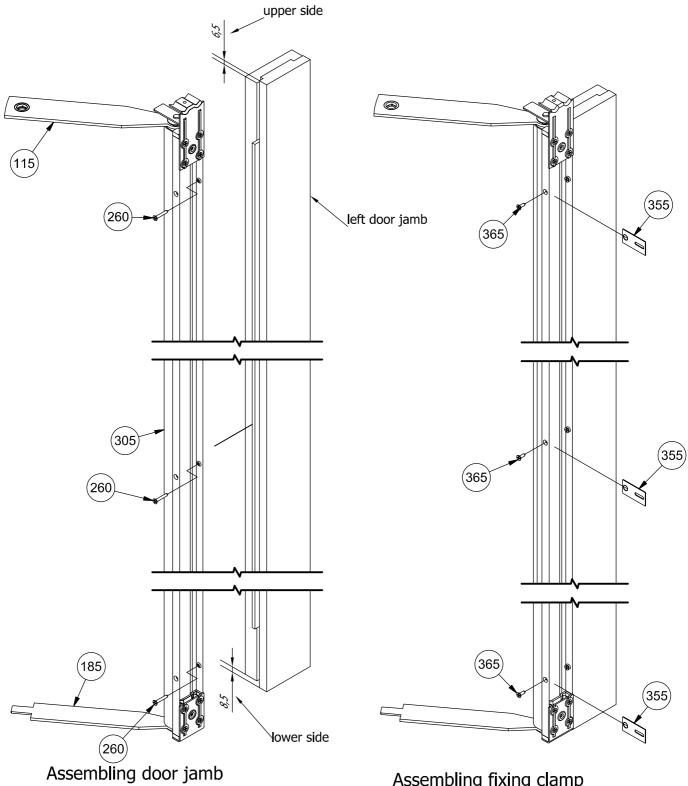
2 8 Spacer

Upper pivot

Rod rotation brass

Screw TSPcr Ø3,5x22



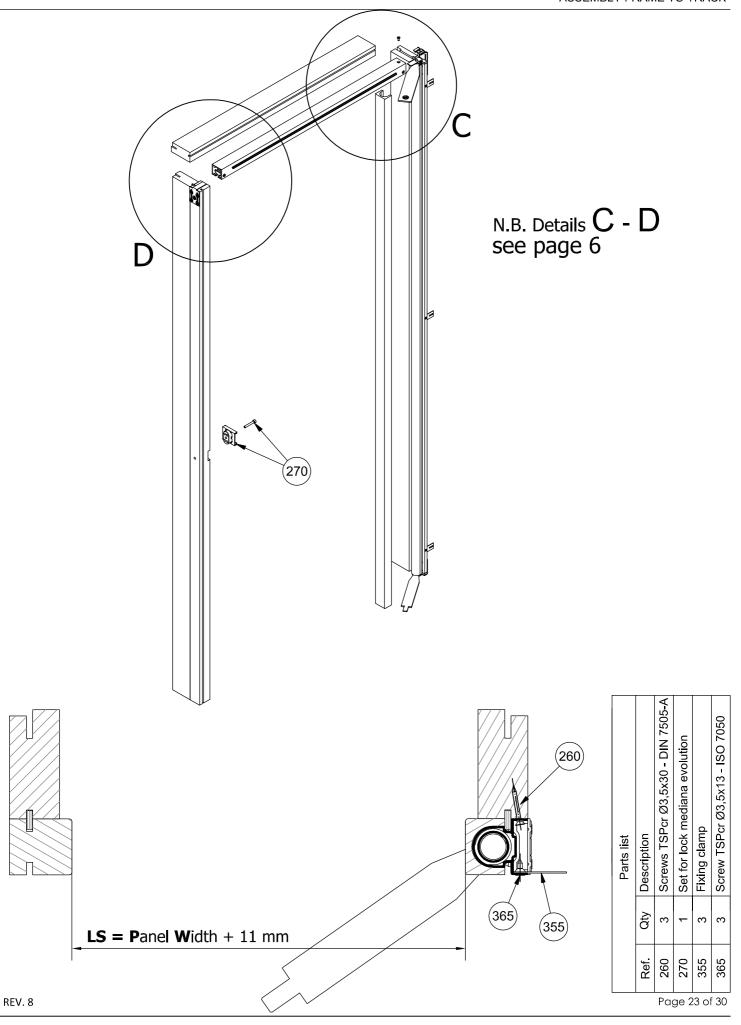


## Assembling fixing clamp

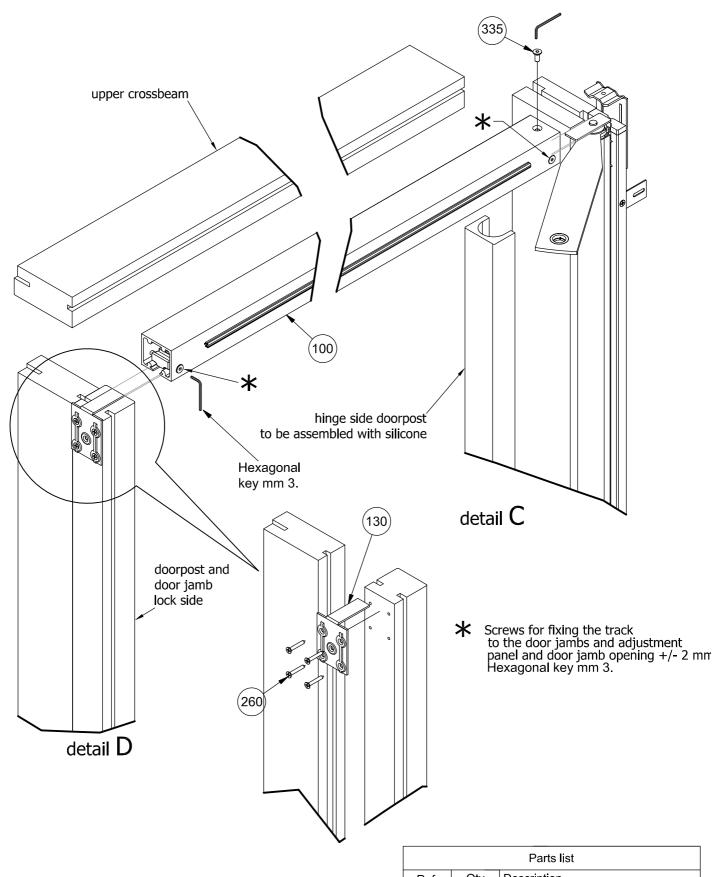
Parts list		
Ref.	Qty	Description
115	1	Upper arm
185	1	Lower arm
260	3	Screw TSPcr Ø3,5x30 - DIN 7505-A
305	1	Doorpost
355	3	Fixing clamp
365	3	Screw TSPcr Ø3,5x13 - ISO 7050
		_

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Parts list

Ref. Qty Description

100 1 Track

130 1 Lock-side bracket

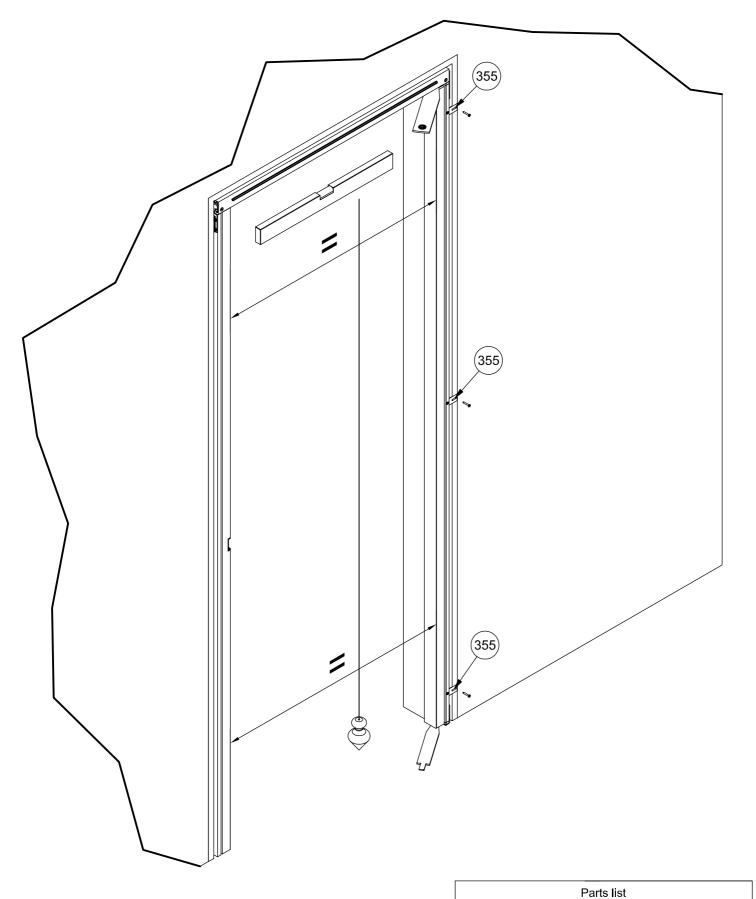
230 1 Screw TSPei M5x12 - ISO 10642

260 4 Screws TSPcr Ø3,5x30 - DIN 7505-A

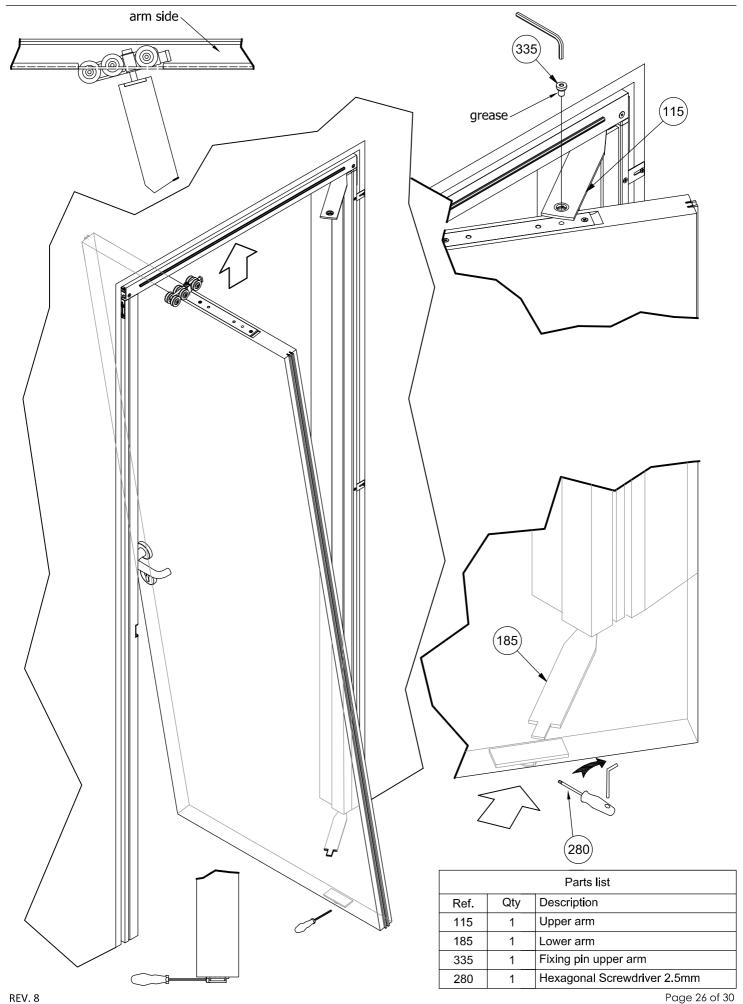
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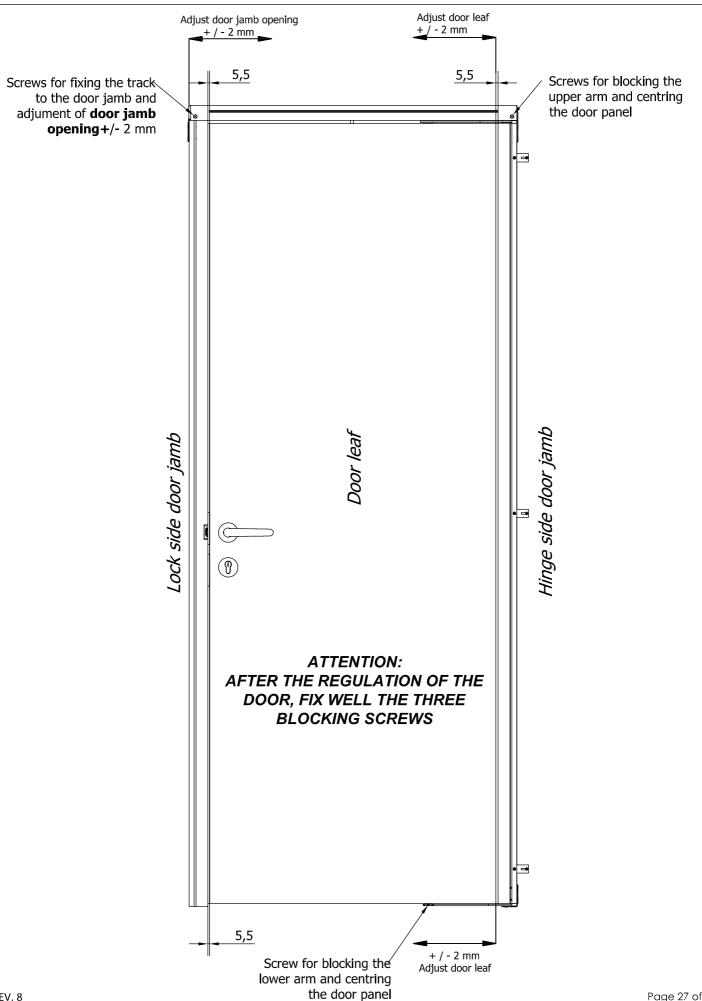
N.B. The levelling of the track and the plumb of the door jambs must be precise.



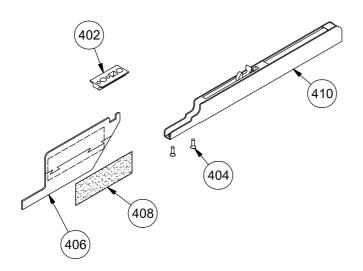




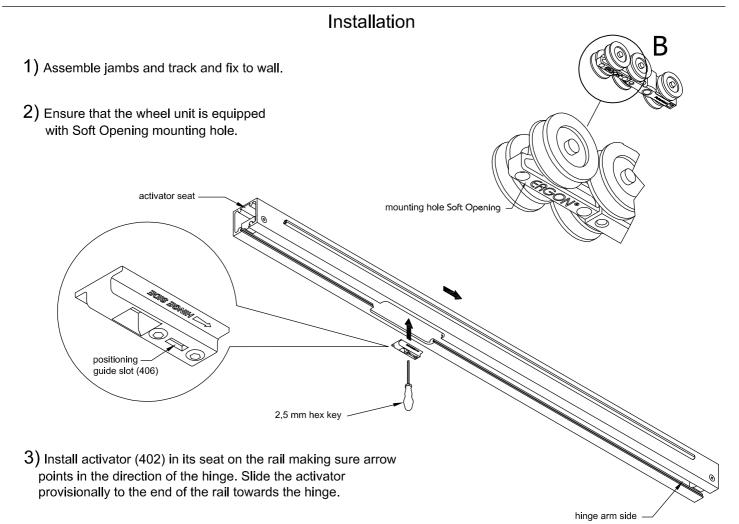








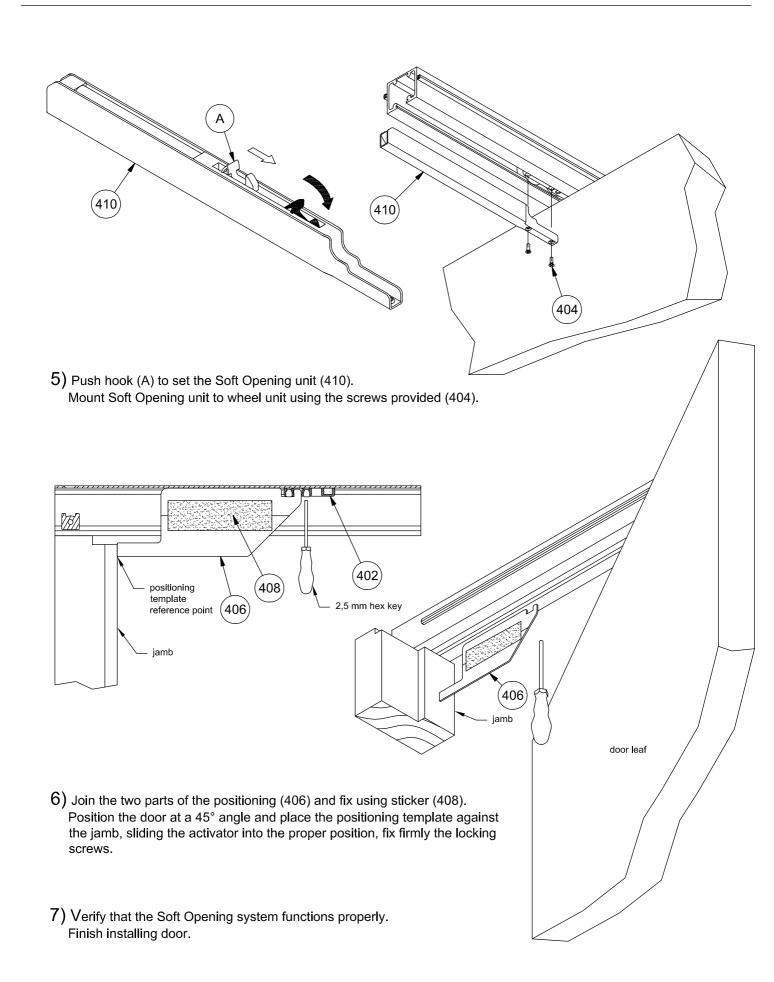
List of Components			
Ref.	Q.ty	Description	
402	1	Activator	
404	2	Screw TSP+ M3x8 - ISO 7046	
406	1	Activator positioning template	
408	1	Sticker	
410	1	Soft Opening	



- 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.

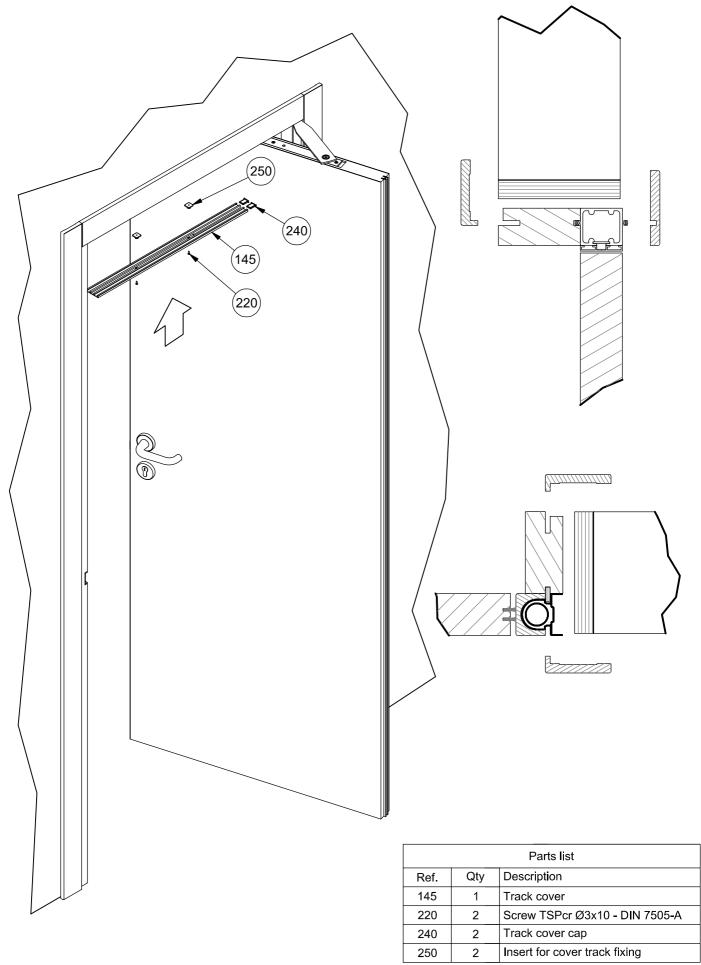
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## COBURN SLIDING SYSTEMS LTD



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