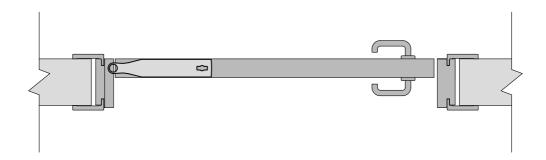




technical construction and installation manual

swinging sliding door with connecting rod in the door leaf





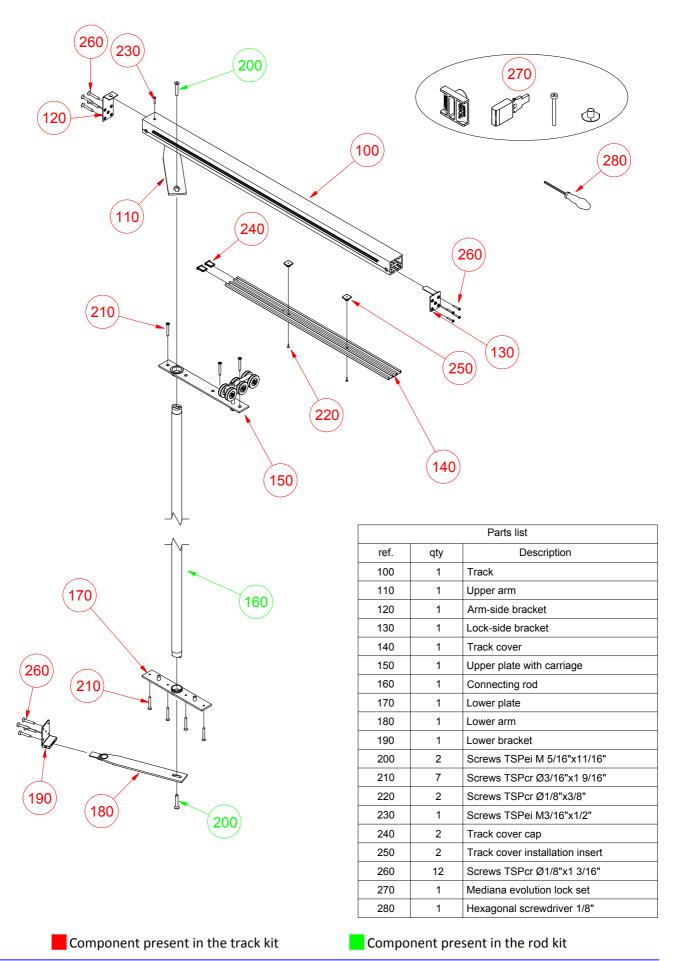


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EXPLODED VIEW OF THE HARDWARE





INTRODUCTION

ERGON LIVING S40 hardware is designed to be applied only on hollow-cored panels, for internal doors for interior residental use, that are at least 1 9/16" thick and weight no more than 154 lbs.

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 LIVING S40 version, by doing some simple work as indicated in this manual.

The standard finishes offered for the ERGON LIVING S40 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:

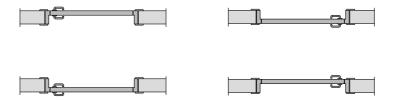
- "Base" particularly suitable for LFM (wall hole opening) from 31 1/2" to 43 5/16"
- "Small" particularly suitable for LFM (wall hole opening) from 24 1/64" to 31 1/2"
- "Large" particularly suitable for LFM (wall hole opening) from 43 5/16" to 57 1/16"

According to specific requirements, with the ERGON LIVING S40 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 <u>passage widths</u> the ERGON LIVING 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 18).

As regards the <u>actual passage height</u>, fixed-size are offered, 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.



FRAME SPECIFICATION

With ERGON LIVING S40 two types of frames can be used: jamb with doorpost and straight jamb.

JAMB WITH DOORPOST

1) Furthermore it allows a production standard, as it makes it possible to manage both small and large wall thickness (up to 29 1/8" with door positioned in the centre of the wall thickness).

Moreover, the jamb can be placed indistinctly on the right or left side of the doorpost; in this way, it can be used for internal, external or central flush doors.

The adiacent doorpost, even if simple, is an extra element that must be constructed.

2) A suitably modified Mediana Evolution lock, using simple pressure to substitute the standard spring lock with the **ERGON** lock (presente su ogni confezione di ferramenta), allows the door to close similarly to a door with a rabbet. A magnetic lock can be used too.

STRAIGHT JAMB

- 1) It's possible to use a simple flat casing., normally used to cover the wall where installation of a door was not previouslyplanned.
- **2)** Makes it necessary to use a magnetic lock which is functional only if the door is not more than 1/8" from the frame.

The doo jamb near the lock is visually applealing in that no element of the lock or its release is visible.

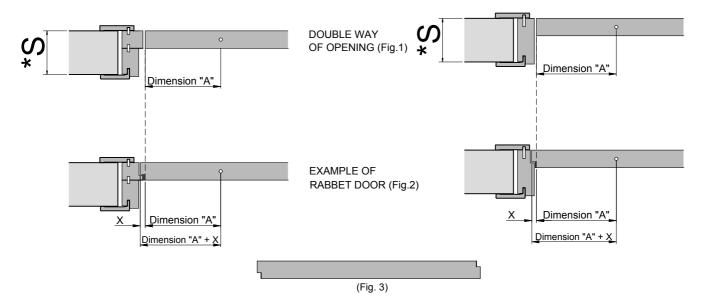
RABBET DOOR WITH ONE-WAY OPENING

In some rooms of the house, it may be appropriate to use doors with stops, with the **ERGON** system; this is possible by simply creating stops in the vertical sides of the door using the same kit.

In this way there's not more the double-way opening, but there is a better acustic isolation inside the room by using a seal for the tightness.

With the **ERGON** system with one-way opening, any type of lock can be used.

Fig. 2 below shows a constructive example of an **ERGON** door with stop; to create the stops both on the door and on the frame, they must be specular (fig. 3) and it is necessary to pay attention to value "X" which must be added to value "A", indicated on page 11 of this manual, to keep the panel connection rod insertion point in the exact position.

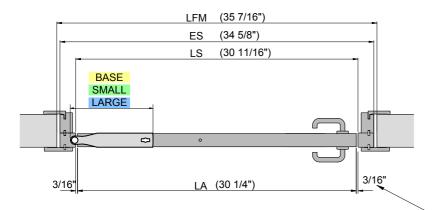


The movement of the door leads to having limits in the thickness of the walls which may vary depending on the type of frame used or on the type of bracket used (BASE, SMALL, LARGE); on page 10 there are some solutions to manage these limits in the best way possible.

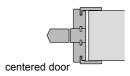


SINGLE DOOR HORIZONTAL DIMENSION DIAGRAM

(example dimensional)

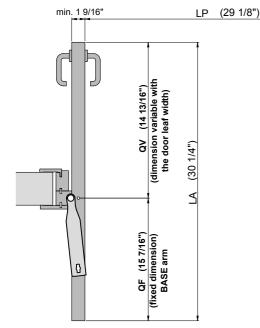


The door leaf can be positioned at the centre with respect to the thickness of the wall.



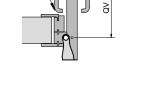
See page 10 for information on managing wall thickness.

If a magnetic lock is used, it is recommented to reduce the gap to 1/8" on the side only.



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

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



The values shown in this table refer to a door with frame thickness and door leaf thickness 1 3/4"; if a flat frame with a thickness of 1 9/16" is used, the LP, LA, LS and QV values are increased by 13/16".

							•			
	щ	ш	4	4 WIDTH DIMENSION						
	LARGE	3AS	SMALL	LFM	LP	LA	QF	QV		
	_	"	(O)	WALL HOLE WIDTH	PASSAGE DIMENSION	DOOR LEAF WIDTH	FIXED DIMANSION	VARIABLE DIMENSION		
			•	24 1/64"	17 11/16"	18 7/8"	11 5/8"	6 7/8"		
			•	25 9/16"	19 5/16"	20 7/16"	11 5/8"	8 13/16"		
Minimum dimension for "Soft Opening" SMALL arm		•	•	27 9/16"	21 1/4"	22 3/8"	<mark>15 7/16"</mark> 11 5/8"	<mark>6 15/16"</mark> 10 13/16		
		•	•	29 1/2"	23 1/4"	24 3/8"	15 7/16" 11 5/8"	8 15/16" 12 3/4"		
Minimum dimension for "Soft Opening" BASE arm		•	•	31 1/2"	25 3/16"	26 5/16"	15 7/16" 11 5/8"	10 7/8" 14 3/4"		
		•		33 7/16"	27 3/16"	28 5/16"	15 7/16"	12 7/8"		
		•		35 7/16"	29 1/8"	30 1/4"	15 7/16"	14 13/16"		
		•		37 3/8"	31 1/8"	32 1/4"	15 7/16"	16 13/16"		
		•		39 3/8"	33 1/16"	34 3/16"	15 7/16"	18 3/4"		
		•		41 5/16"	35 1/16"	36 3/16"	15 7/16"	20 3/4"		
Minimum dimension for "Soft Opening" LARGE arm	•	•		43 5/16"	37 1/32"	38 1/8"	24 7/16 15 7/16"	13 3/4" 22 11/16		
	•			45 1/4"	38 31/32"	40 1/8"	24 7/16"	15 11/16"		
	•			47 1/4"	40 15/16"	42 1/16"	24 7/16"	17 11/16"		
LEGEND	•			49 3/16"	42 15/16"	44 1/16"	24 7/16"	19 5/8"		
	O			51 3/16"	44 7/8"	46 1/32"	24 7/16"	21 5/8"		
LFM = WALLL HOLE WIDTH	•			53 1/8"	46 7/8"	48"	24 7/16"	23 9/16"		
LP = PASSAGE DIMENSION (LFM - 6 5/16")	•			55 1/8"	48 13/16"	49 15/16"	24 7/16"	25 9/16"		
LA = DOOR LEAF WIDTH (LFM - 5 3/16")	•			57 1/16"	50 13/16"	51 15/16"	24 7/16"	27 1/2"		

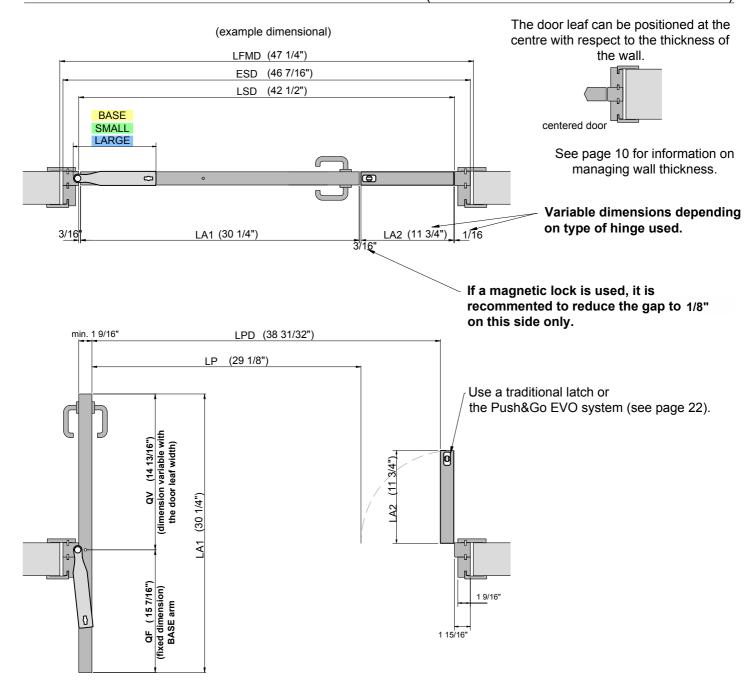
1 9/16'

- LP
- LA
- LS = DOOR JAMB OPENING (LFM - 4 3/4")
- ES = OUTER JAMB (LFM - 13/16")
- QF = FIXED DIMENSION ENCUMBRANCE ARM-SIDE
- ΩV = VARIABLE DIMENSION ENCUMBRANCE HANDLE-SIDE
- = Available standard dimensions
- = Several examples of dimensions that can be obtained by shortening the track. Intermediate dimesions are also possible.

For other custom dimensions, contact Celegon in regards to feasibility.



DOUBLE DOOR HORIZONTAL DIMENSIONAL DIAGRAM (ERGON DOOR LEAF AND RABBET DOOR)



The values shown in this table refer to a **door with frame thickness 1 15/16" and ddor leaf thickness 1 3/4"**, if a flat frame with a thickness of 1 9/16" is used, the LP and LS values increase by 13/16" and the LA and QV values increase by 3/8".

When ordering hardware, the dimensions of the wall opening (LFMD) and the type of arm that will be used must be provided.

A custom track kit will be supplied based on the dimensions provided.

LEGEND

LFMD = WALL HOLE WIDTH

LPD = PASSAGE DIMENSION (LFMD - 8 1/4")

LA1 = DOOR LEAF WIDTH (see table on page 5)

LA2 = DOOR LEAF WIDTH (LFMD - LA1 - 5 1/4 variable depending on door leaf LA1 dimensions and type of hinge used)

LSD = DOOR JAMB OPENING (LFMD - 4 3/4")

ESD = OUTER JAMB (LFMD - 13/16")

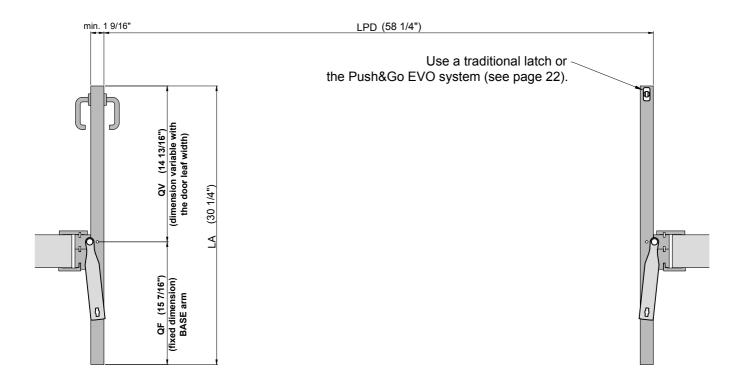
QF = FIXED DIMENSION ENCUMBRANCE ARM-SIDE (see table on page 5 based on type of arm used)

QV = VARIABLE DIMENSION ENCUMBRANCE HANDLE-SIDE (see table on page 5 based on type of arm used and the dimensions of door leaf LA1)



DOUBLE DOOR HORIZONTAL DIMENSIONAL DIAGRAM (TWO ERGON DOOR LEAVES)

(example dimensional) LFMD (66 15/16") ESD (66 1/8") LSD (62 3/16") BASE SMALL LARGE MALL LARGE If a magnetic lock is used, it is recommented to reduce the gap to 1/8"



The values shown in this table refer to a **door with frame thickness 1 15/16" and ddor leaf thickness 1 3/4"**, if a flat frame with a thickness of **1 9/16"** is used, the LP and LS values increase by **13/16"** and the LA and QV values increase by **3/8"**.

In this case, it is possible to use track kits for single doors in combination with the dedicated union kit. For specifications, see pages 20-21-22.

LEGEND

LFMD = WALL HOLE DIMENSION

LPD = PASSAGE DIMENSION (LFMD - 8 1/4")

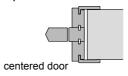
LA = DOOR LEAF WIDTH (LFMD - 6 3/8")

LSD = DOOR JAMB OPENING (LFMD - 4 3/4")

ESD = OUTER JAMB (LFMD - 13/16")

QF = FIXED DIMENSION ENCUMBRANCE ARM-SIDE
QV = VARIABLE DIMENSION ENCUMBRANCE HANDLE-SIDE

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

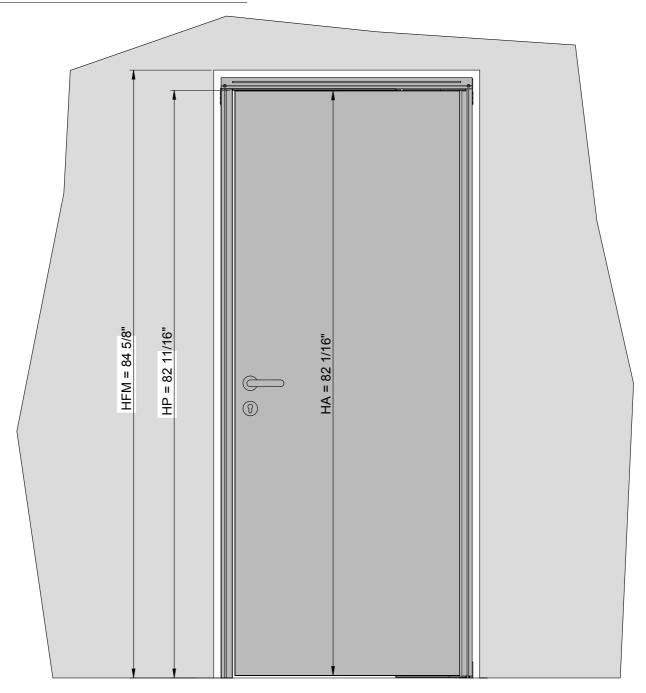


on this side only.

See page 10 for information on managing wall thickness.



VERTICAL DIMENSIONAL DIAGRAM



	V	ERTICAL DIMEN	NSIONAL	
w	HFM all hole height	HP passage height	HA door leaf height	
*	76 3/4"	74 13/16"	74 3/16"	1
*	78 3/4"	76 3/4"	76 1/8"	
*	80 11/16"	78 3/4"	78 1/8"	HP = (HFM - 1 15/16")
*	82 11/16"	80 11/16"	80 1/16"	HA = (HFM - 2 5/,8*)
*	84 5/8"	82 11/16"	82 1/16"	
*	86 5/8"	84 5/8"	84"	1
*	88 9/16"	86 5/8"	86"	
+ Λ∨2	ilable etandard dime	ncion		-

^{*}Available standard dimension.

It is possible to have other dimensions, even intermediate dimensions, by purchasing the rod kit shortnable (see page 19).

For getting rods in special sizes, kindly contact Celegon S.r.l..



MANAGING WALL THICKNESS

The particular translation movement causes the door to retreat during opening, meaning wall thickness requires special attention to prevent the door leaf from colliding with the surface of the jamb (see drawing below).

The values shown in this page refer to a door leaf thickness 1 3/4".

JAMB WITH DOORPOST thickness max. 7 1/16" for SMALL arm thickness max. 10 1/4" | for BASE arm

thickness max. 15 3/8" for LARGE arm

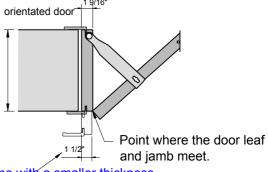
1 15/16' oriented door Point where the door leaf and jamb meet.

To increase the wall thickness, the jamb thickness can be reduced < 1 9/16"

By reducing the jamb to less than 1 9/16", the wall thickness can beincrease by approximately 1 3/16" for every 1/16" (e.g. jamb thickness 1 1/2" = BASE arm wall thickness 11 7/16").

STRAIGHT FRAME

thickness max. 2 3/8" for SMALL arm thickness max. 4 5/16" for BASE arm thickness max. 5 5/16" | for LARGE arm



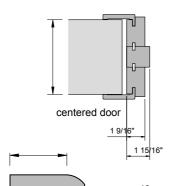
To increase the thickness of the wall, an element can be added to the frame with a smaller thickness than the frame itself (e.g. frame thickness 1 9/16" add 1 1/2" element).

In this way it is possible to increase the thickness of the wall by about 1 3/16" every 1/16" (e.g. adding a 1 1/2" element = wall thickness BASE bracket 5 1/2").

By positioning the door at the centre of the jamb, the maximum wall thickness can be increased.

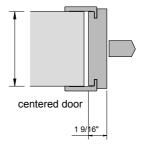
JAMB WITH DOORPOST

thickness max. 12 5/8" for SMALL arm thickness max. 18 7/8" for BASE arm thickness max. 29 1/8" for LARGE arm



STRAIGHT FRAME thickness max. 3 1/8" for SMALL arm

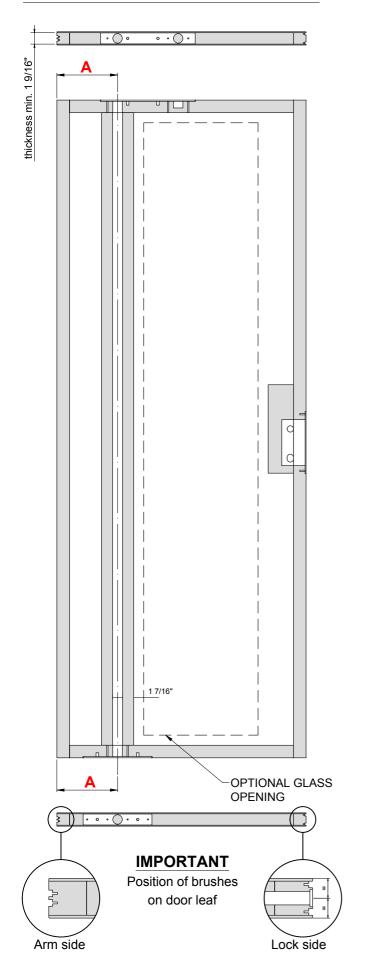
thickness max. 5 7/8" for BASE arm thickness max. 9 1/16" for LARGE arm

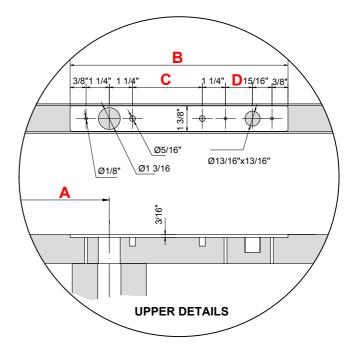


If rounded jambs are used, the above thickness wall dimension must be calculated only on the plane surface and not on the rounded side.

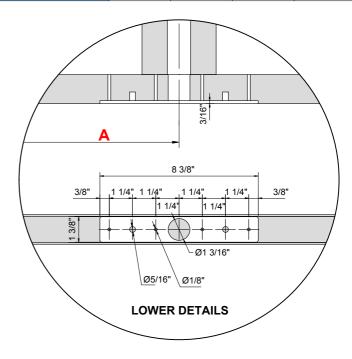


WORKING DOOR LEAF SPECIFICATION





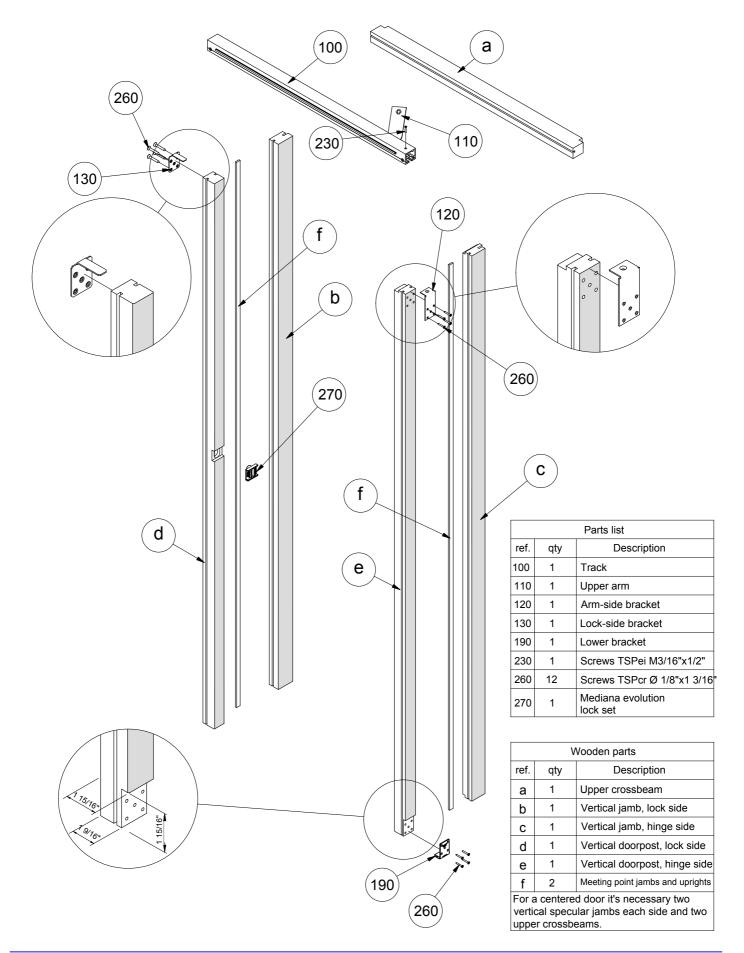
Variable measures accirding to arm used							
	A	A B C					
BASE arm	7 9/16"	10 7/8"	3 3/4"	1 9/16"			
SMALL arm	5 11/16"	8 15/16"	1 7/8"	1 9/16"			
LARGE arm	12 1/16"	15 3/8"	8 13/16"	1"			



It is recommended to use a lock with facing no larger than 11/16".

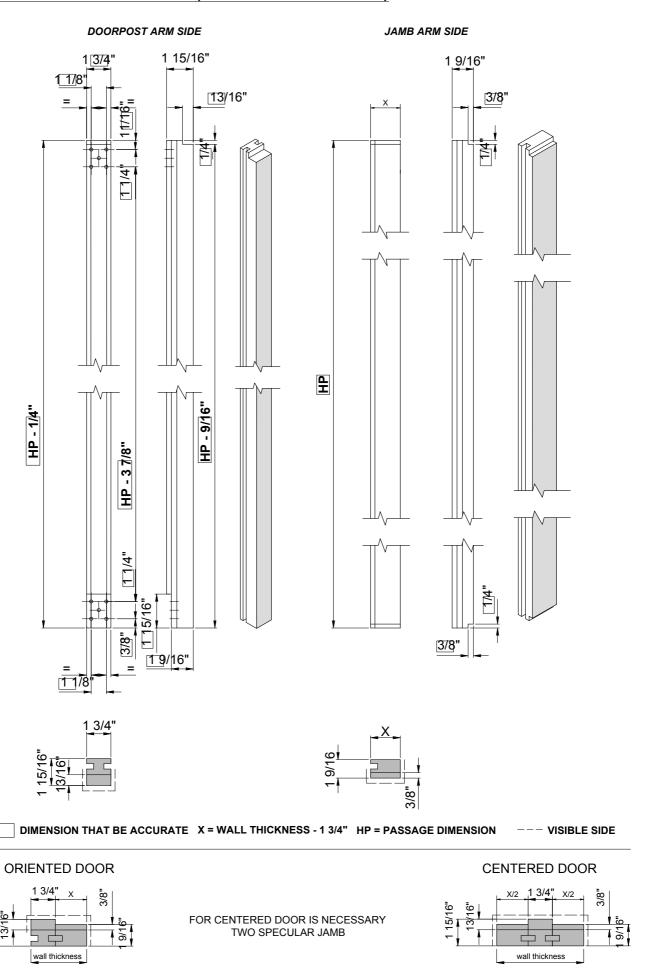


EXPLODED VIEW OF THE FRAME (JAMB WITH DOORPOST)





DETAILS FOR VERTICAL FRAME (JAMB WITH DOORPOST)

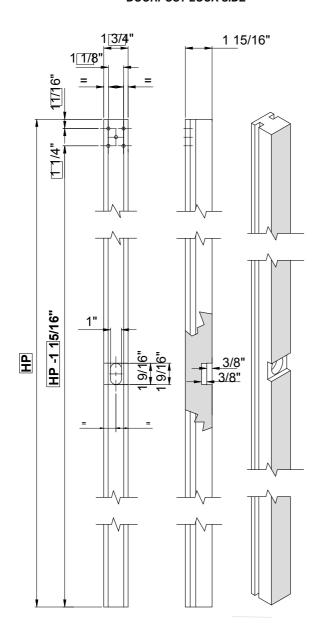


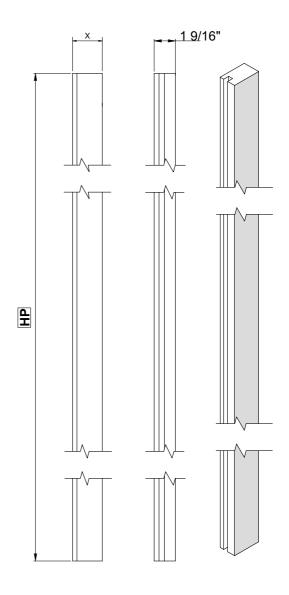


DETAILS FOR VERTICAL FRAME (JAMB WITH DOORPOST)

DOORPOST LOCK SIDE

JAMB LOCK SIDE

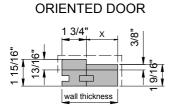




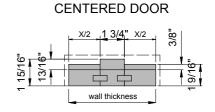




DIMENSION THAT BE ACCURATE X = WALL THICKNESS - 1 3/4" HP = PASSAGE DIMENSION --- VISIBLE SIDE

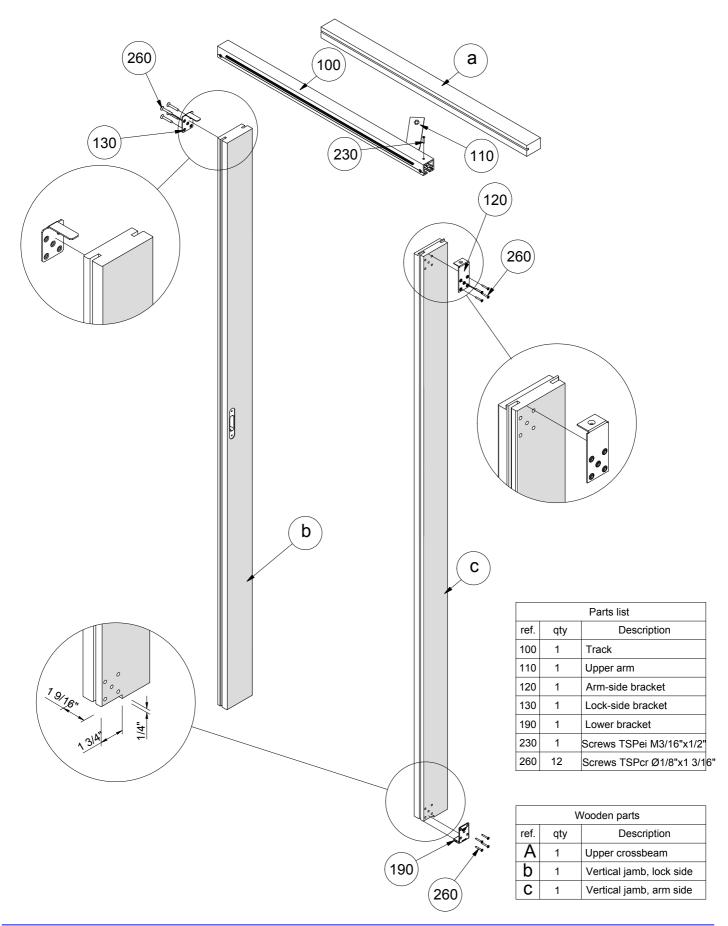


FOR CENTERED DOOR IS NECESSARY
TWO SPECULAR JAMB



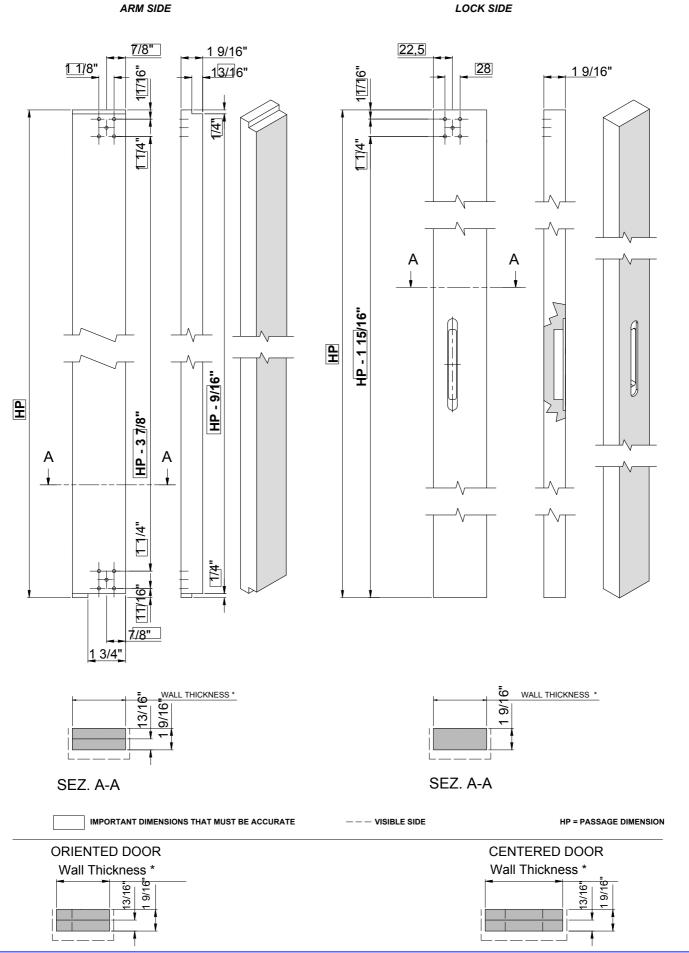


EXPLODED VIEW OF THE FRAME (STRAIGHT JAMB)





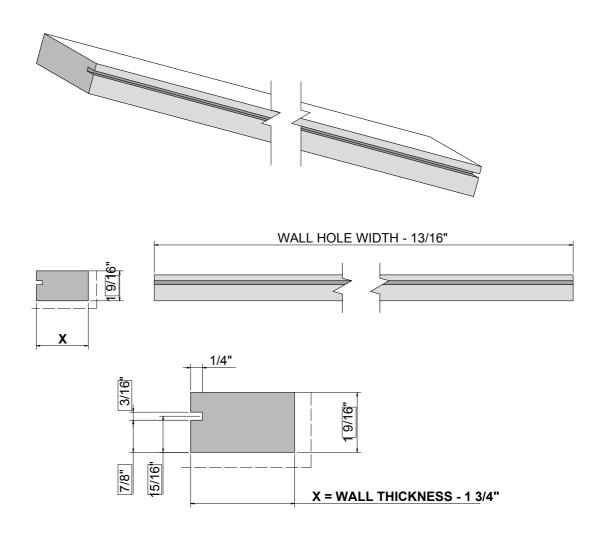
DETAILS FOR VERTICAL FRAME (STRAIGHT JAMB)

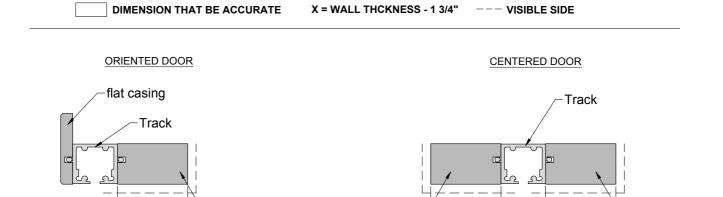




DETAILS FOR UPPER CROSSBEAM

VALID FOR FRAME WITH DOORPOST AND FLAT FRAME





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

X/2

Upper

crossbeam

X/2

Upper

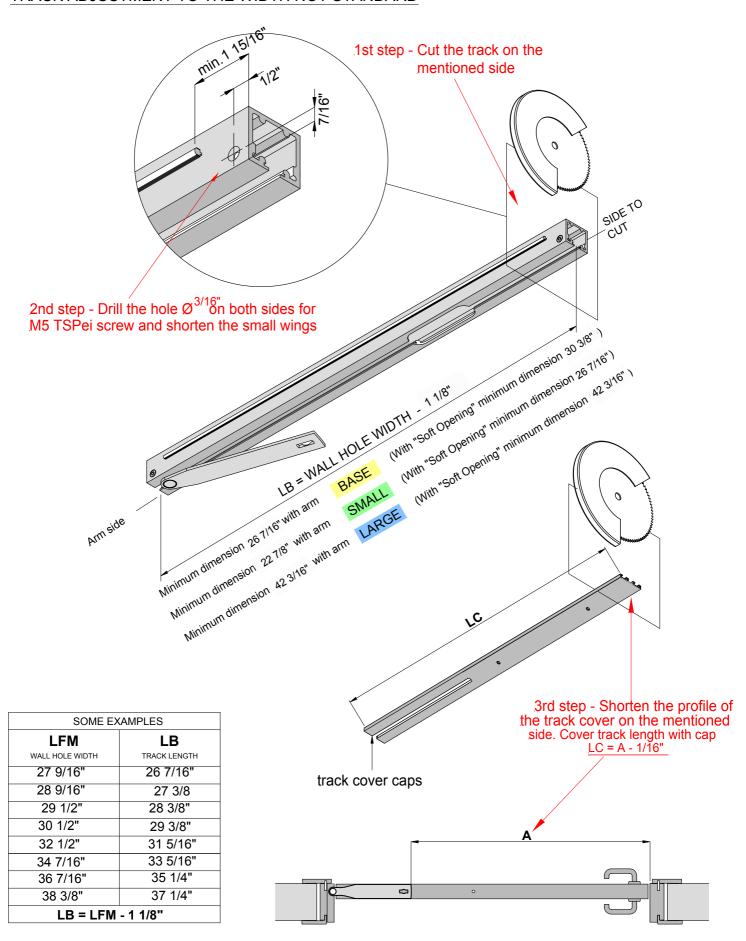
crossbeam

Upper

crossbeam



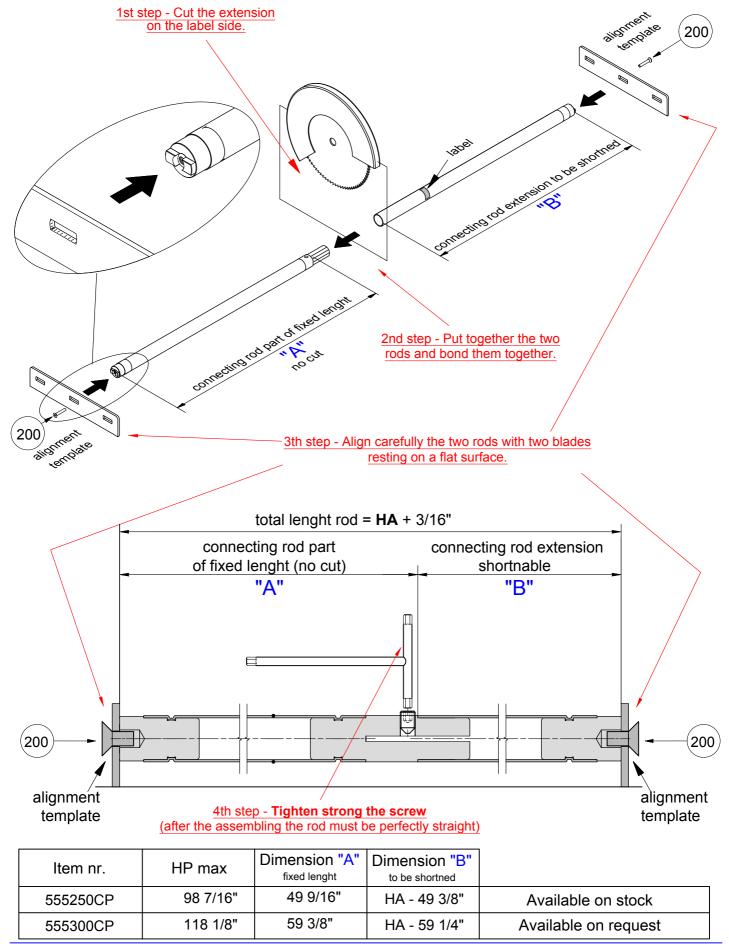
TRACK ADJUSTMENT TO THE WIDTH NOT STANDARD





ROD KIT SHORTNABLE

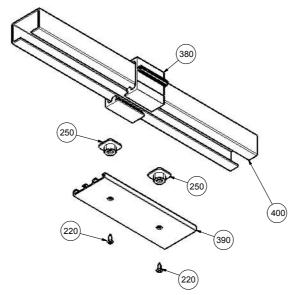
ADJUSTMENT OF THE CONNECTING ROD FOR NOT STANDARD HEIGHTS



1

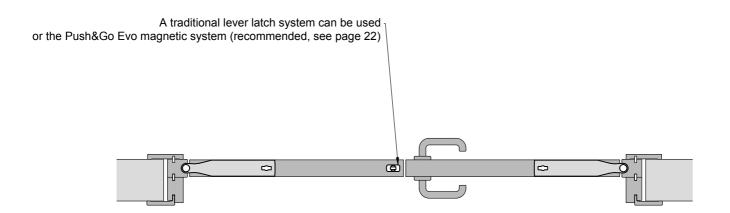


KIT UNION TRACKS FOR DOOR WITH TWO DOOR LEAVES ERGON LIVING SYSTEM



Item number 564000

		Part list	
ref.	qty	Description	
220	1	Screw TSPcr Ø1/8"x3/8"	
250	2	Track cover installation insert	
380	1	Track extension	
390	1	Track cover extension	
400	1	Track graft junction	
			_



N.B.: for the limits of the wall thickness see page 10 in this manual.

LFM minimum 63" with **BASE** arm, with "Soft Opening" **LFM** minimum 66 15/16".

LFM minimum 55 1/8" with **SMALL** arm, with "Soft Opening" **LFM** minimum 59 1/16".

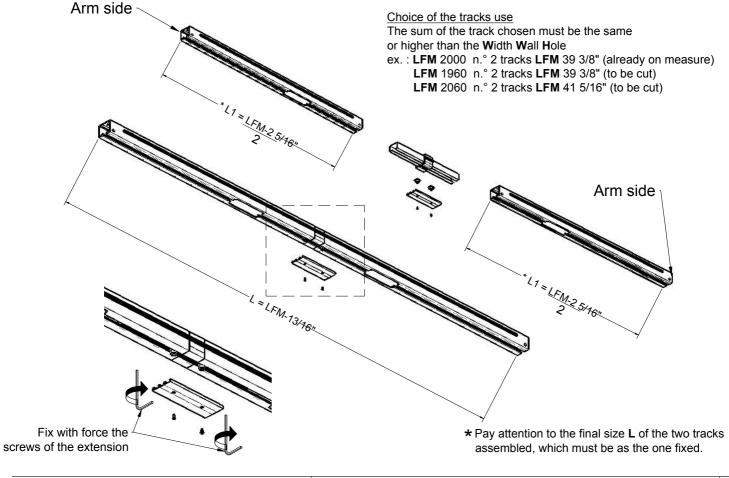
LFM minimum 90 9/16" with LARGE arm, with "Soft Opening" LFM minimum 90 9/16".

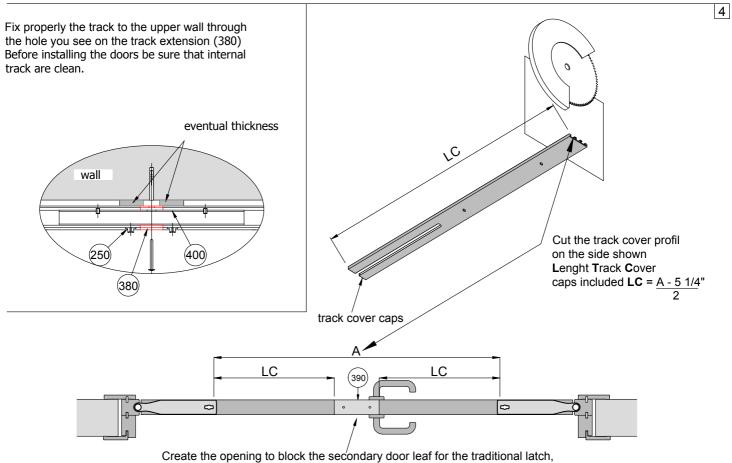
For dimensions smaller than those indicated, contact Celegon S.r.l.

3



KIT UNION TRACKS FOR DOOR WITH TWO DOOR LEAVES ERGON LIVING SYSTEM



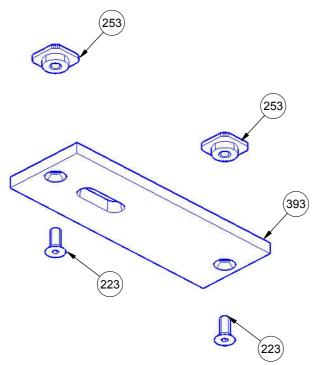


OR
For the Push&Go EVO system use the dedicated kit, see next page.



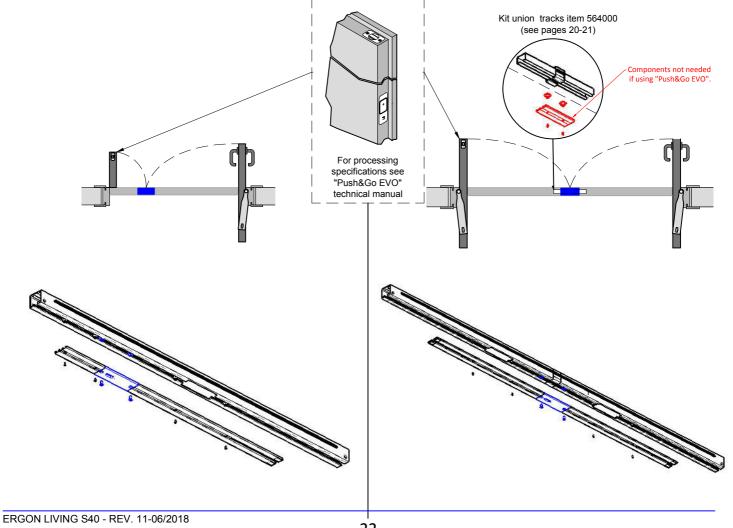
MAGNETIC STRIKER PLATE FOR "Push&Go EVO"

For use with double door leaves with Ergon Living system.



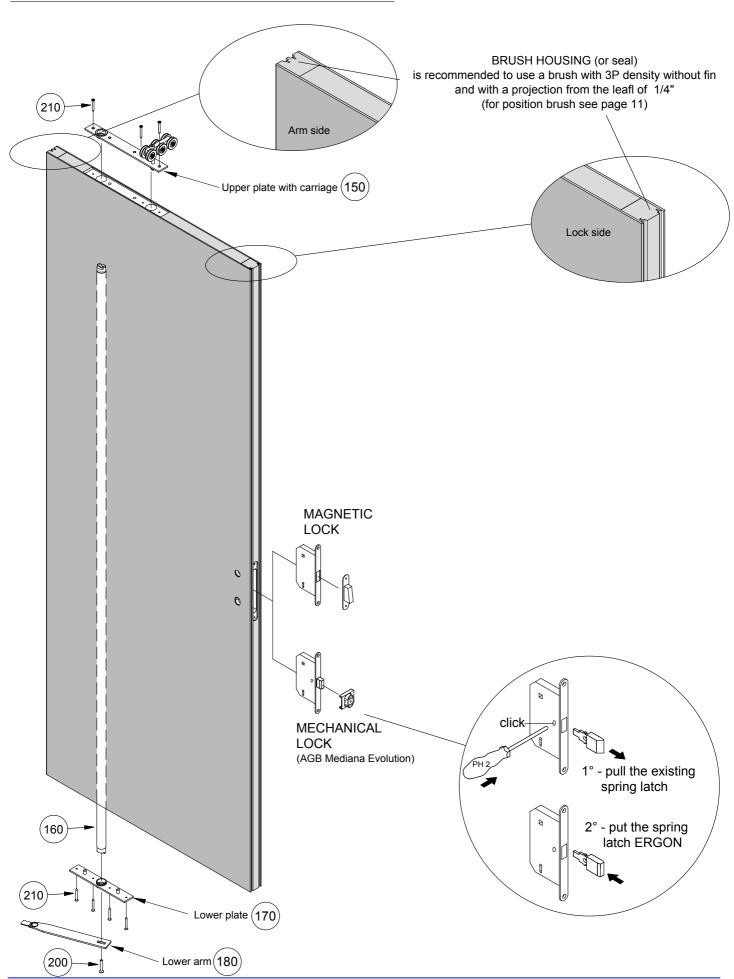
Silver item number 4150IA Black item number 4150IN

ref.	qty	Parts list
223	1	Screw TSPEI M3/16"x1/2"
253	1	Plate fixing insert
303	1	Magnetic striker plate



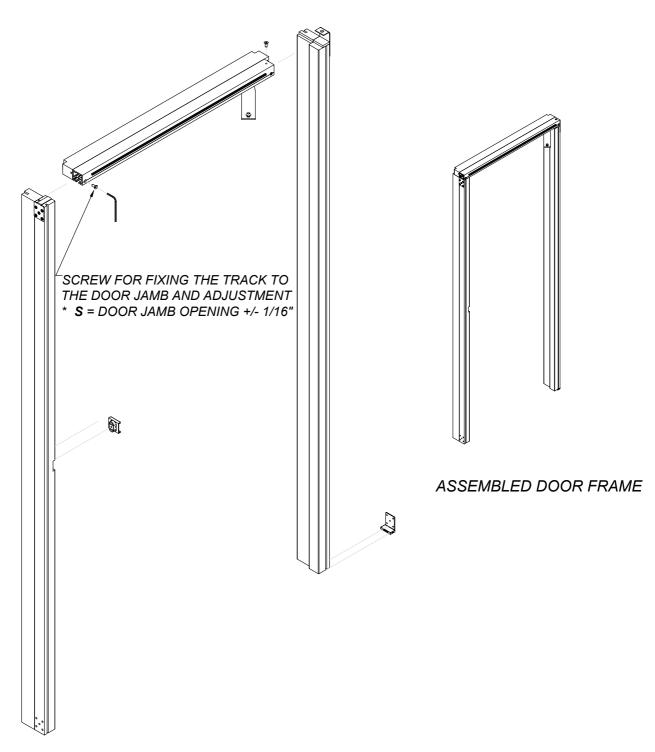


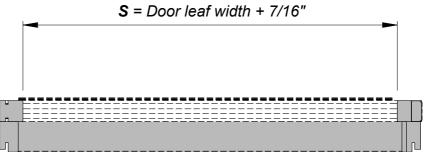
ASSEMBLING THE HARDWARE IN THE DOOR LEAF





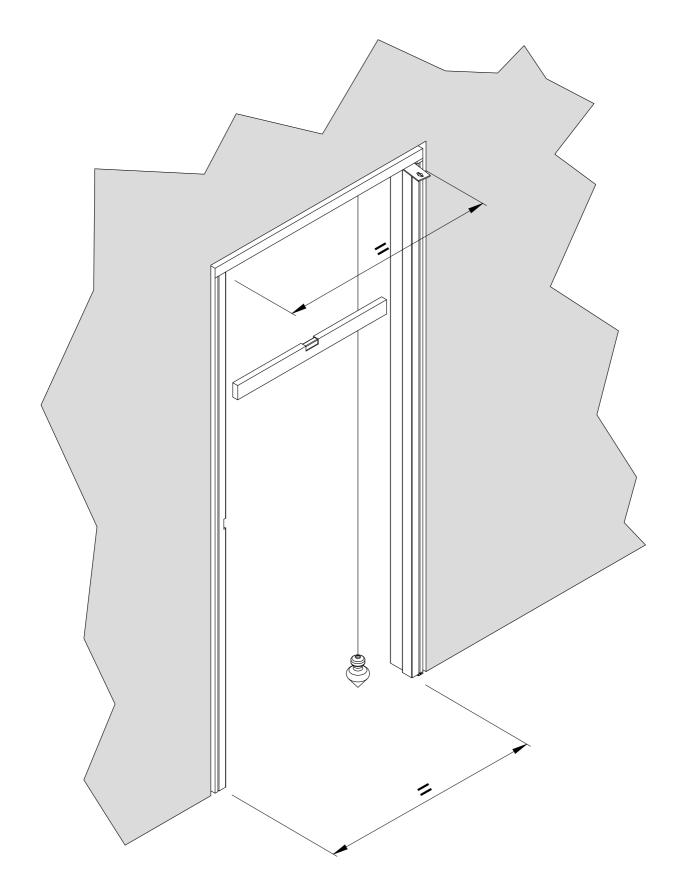
ASSEMBLY FRAME AND TRACK





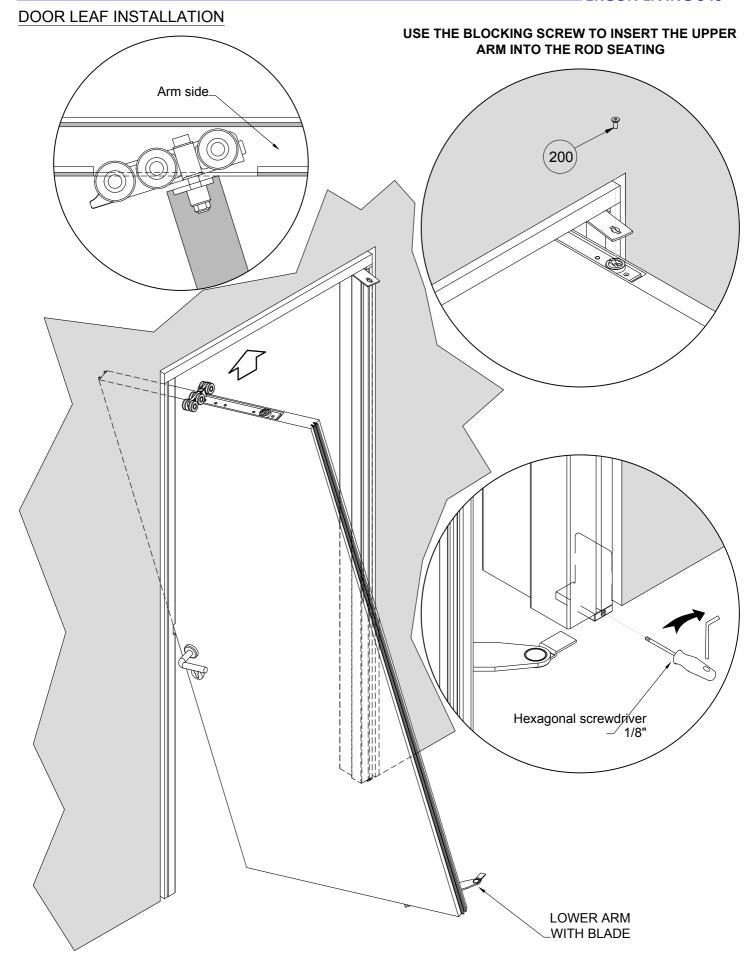


COMPLETE FRAME INSTALLATION



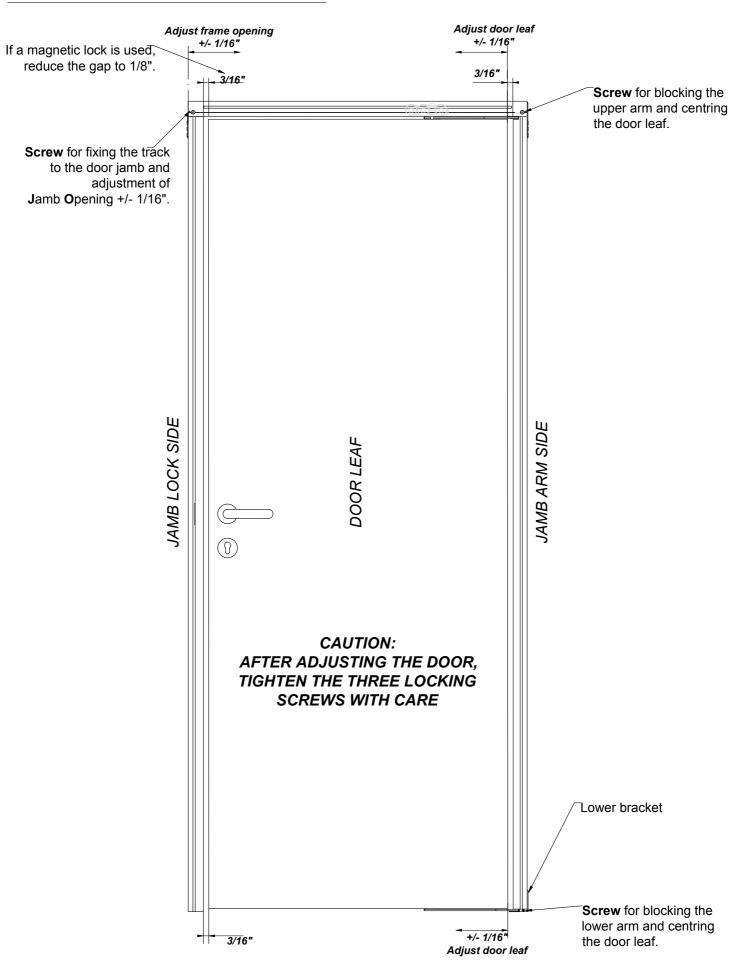
NOTE: THE LEVELLING OF THE TRACK AND THE PLUMB OF THE DOOR JAMBS MUST BE PRECISE





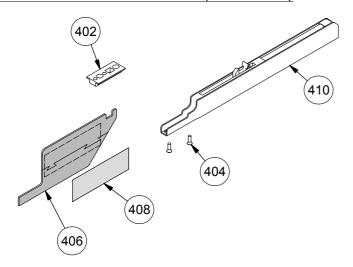


ADJUSTING DOOR LEAF AND DOOR JAMB



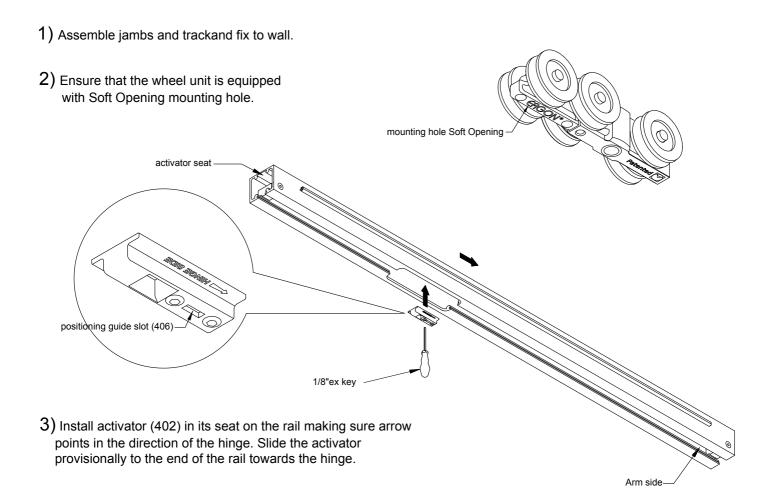


"SOFT OPENING" INSTALLATION (OPTIONAL)



	Parts list					
ref. qty Description						
402	1	Activator				
404	2	Screw TSP+ M1/8"x5/16" - ISO 7046				
406	1	Activator positioning template				
408	1	Sticker				
410	1	Soft Opening				

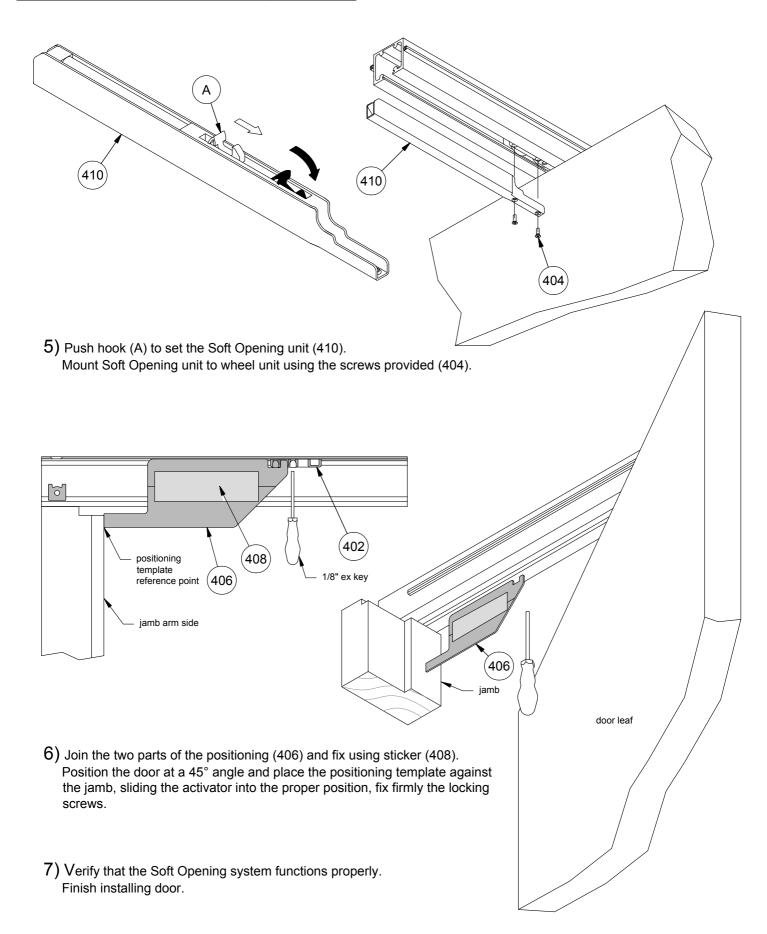
Installation



- 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.



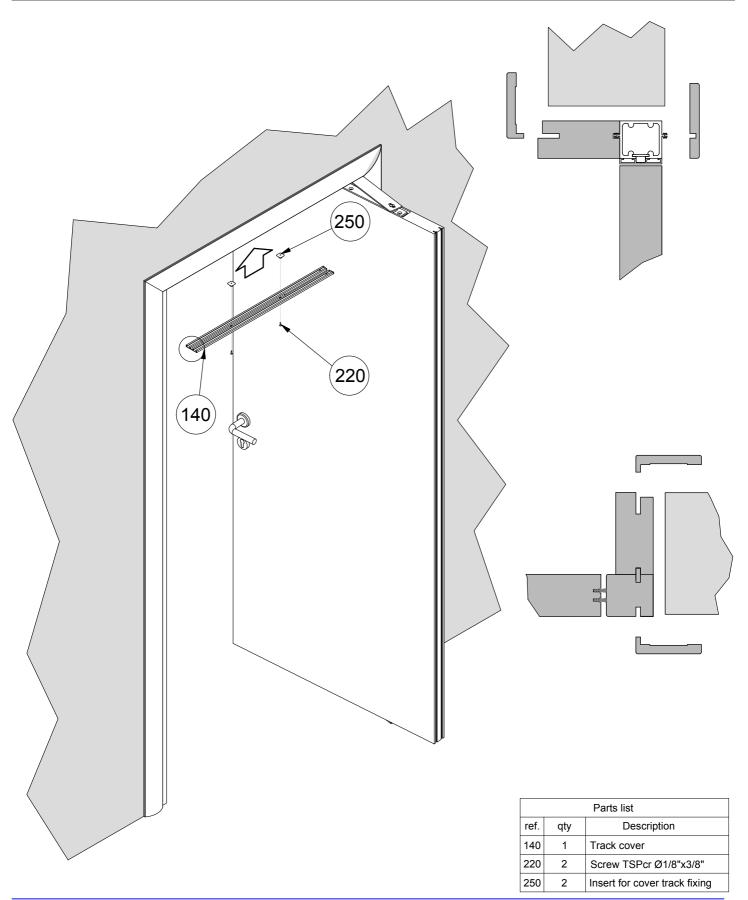
"SOFT OPENING" INSTALLATION (OPTIONAL)





FRAMES AND TRACK COVER INSTALLATION

IF THE FRAME WITH DOORPOST IS USED (SEE THE FIGURE HERE BELOW), THE TRACK COVER MUST BE SHORTENED BY 13/16" ON THE SIDE MARKED WITH THE CIRCLE.





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