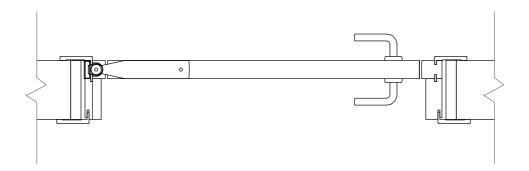


SERIES T.E.

HOME

technical construction manual

swinging-sliding door with connecting rod in the door jamb





INTRODUCTION

Ergon T.E. version extend the possibilities of use **ERGON** technology for internal residential doors, which are built for doors unsuitable to contain the connecting rod between the two arms, such as glass, mirror, solid wood doors, etc. To guarantee the reliability and practicality provided by thousands of produced models, the components used for the T.E. version come from **ERGON** LIVING S40 and **ERGON** COMMUNITY models. These models are certified by the research institute and test laboratory CATAS according to EN 1119 standards and they passed severe tests about the system resistance to repeated door's opening and closing (100.000 cycles).

In the version T.E. the rod is foreseen inside the jamb and not inside the panel, so that it is possible to use the same panels as the sliding doors. In addition the door can have a minimal thickness of 35 mm and a maximum weight of 70 kg.

The standard finishes available for the T.E. version are silver and black.

In order to reduce the hindrances to the door movement, we propose three different kind of arms:

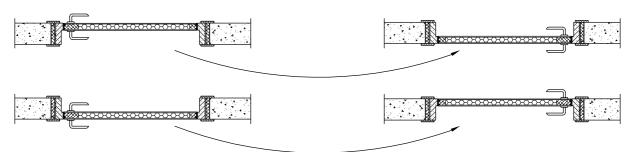
- . "Basic": especially suitable for LFM (wall hole opening) from 800 to 1100 mm;
- . "Small": especially suitable for LFM (wall hole opening) from 610 to 800 mm;
- . "Large": especially suitable for LFM (wall hole opening) from 1100 to 1450 mm;

Depending on particular requirements, the door with the **ERGON** LIVING T.E. hardware can be built so that the door can be situated in any position inside the wall thickness. However to make the description simpler, hereafter there is the description of the two limit positions and it is used the same terminology of this manual:

1) "centered door" when the leaf is in the middle of the thickness of the wall; this solution offers the advantage in the construction of the lock, which do not depend from its laying. Indeed since the door is in the middle of the wall and it has two way of opening, the laying position could also be decided in the same time of the installation without make any modifications to the door.



2) "oriented door" when the door is flush with one of the two sides of the wall; in this case the door must be appositely built according to the laying and and its orientation.



According to the <u>wall hole width</u>, the T.E. series is available in different standard dimensions for each kind of arm (basic, Small, Large). Once the right kind has been chosen, it is possible to have intermediate dimensions, by cutting the track and the track cover (page 18). With regard to the wall hole height, in case it is necessary a different dimension from the standard one, the special kit is to required, thanks to which it is possible to have the required dimension by cutting the doorpost profile (page 19) and the connecting rod (pag 20).

REV. 7 Page 1 of 24



WALL THICKNESS

With the **ERGON system** his important to pay attention to the wall thickness limits, which change with the different arm used (BASE - SMALL - LARGE):

- for BASE arm version see at pag. 5-6
- for SMALL arm version see at pag. 8-9
- for LARGE arm version see at pag. 11-12

LOCK

ERGON LIVING double way of opening.

ERGON System double opening way doors 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 double opening way, 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.
- "Mediana Evolution" (AGB) latch/lock mechanism. The use of this type of closure, opportunely modified by replacing the standard latch with the **ERGON** latch (included with the guides), 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.

ERGON LIVING one opening way with stop.

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

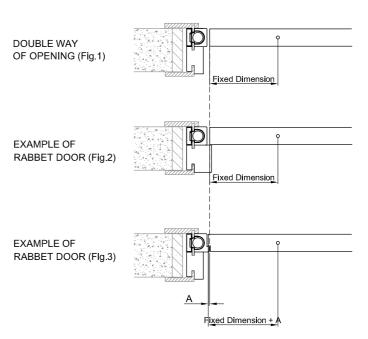
ATTENTION: ERGON kits for one-way doors with stop are identical to those used for double opening way.

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 pay attention to the dimension "A" which has to be added to the "Fixed Dimension", mentioned at pag. 7-10-13 of the present manual instruction.





REV. 7 Page 2 of 24



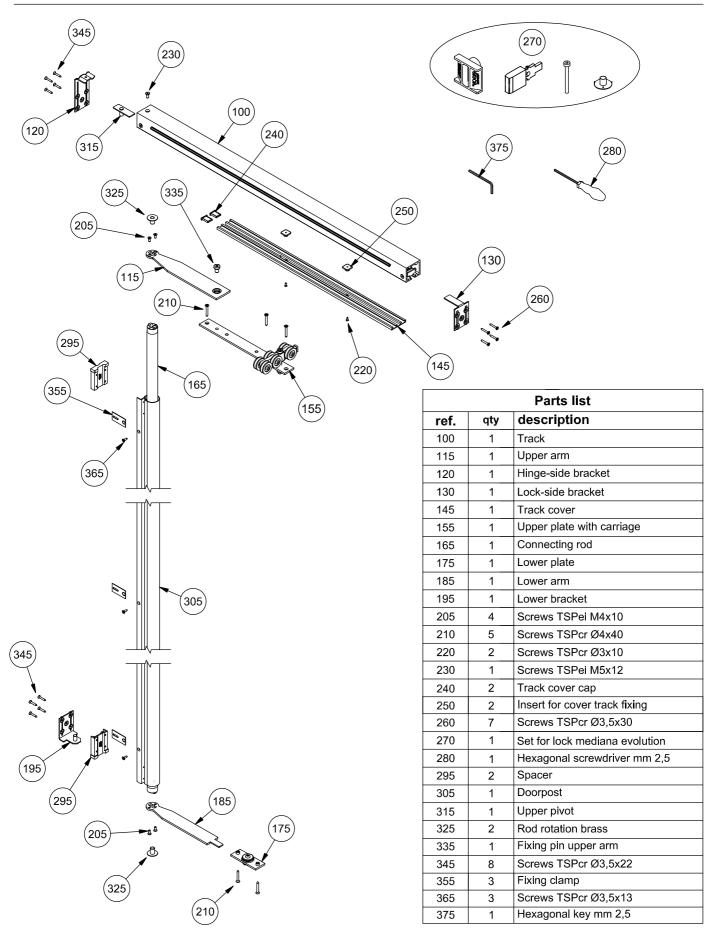




INDEX

| Exploded view of the hardware | | page | 4 |
|---|-----------|------|-------|
| Dimensional diagram of the <u>oriented door</u> with arm | "BASE" | page | 5 |
| Dimensional diagram of the centered door with arm | "BASE" | page | 6 |
| Working panel specification for arm | "BASE" | page | 7 |
| Dimensional diagram of the oriented door with arm | "SMALL" | page | 8 |
| Dimensional diagram of the <u>centered door</u> with arm | "SMALL" | page | 9 |
| Working panel specification for arm | "SMALL" | page | 10 |
| Dimensional diagram of the orinted door with arm | "LARGE" | page | 11 |
| Dimensional diagram of the <u>centered door</u> with arm | "LARGE" | page | 12 |
| Working panel specification for arm | "LARGE" | page | 13 |
| Dimensions of finished panel | | page | 14 |
| Exploded view for frame | | page | 15 |
| Details for vertical frame arm side | | page | 16 |
| Details for vertical frame lock side | | page | 17 |
| Details for the upper crossbeam | | page | 18 |
| Track adjustment to the height of the door | | page | 19 |
| Connecting rod kit with extension (doorpost) | | page | 20 |
| Connecting rod kit with extension | | page | 21 |
| Kit union tracks for door with two door leafs with ∈RG | ON system | page | 22-23 |
| Assembling the hardware in the door | | page | 24 |





 α

⋖

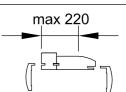
ഗ

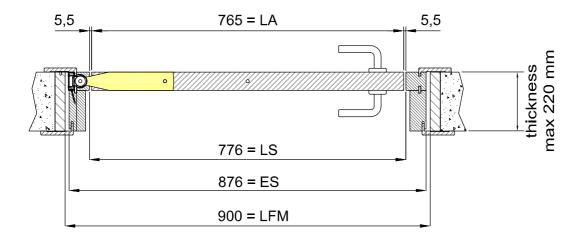
BA



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.

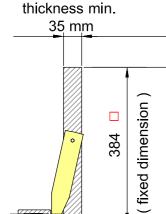


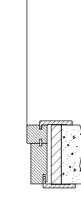


740 = LP

Y =

765





381 = 381 the leaf width)

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 dimensions 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.

HORIZONTAL DIMENSIONS AND ENCUMBRANCE OF THE DOOR

| , | LFM vall hole width | LP passage dimensions | LA leaf width | max. encumbrance of the open door |
|---|------------------------|-----------------------|------------------|-----------------------------------|
| * | 800 | 640 | 665 | 384 🗆 |
| * | 850 | 690 | 715 | 384 □ |
| * | 900 | 740 | 765 | 384 ■□ |
| * | 950 | 790 | 815 | 431 |
| * | 1000 | 840 | 865 | 481 |
| * | 1050 | 890 | 915 | 531 |
| * | 1100 | 940 | 965 | 581 |

^{*} Available stardard dimensions: it is possible to have other dimensions, even intermediate dimensions (see page 18) by adjusting the track.

REV. 7 Page 5 of 24

 α

⋖

ഗ

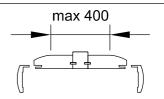
മ

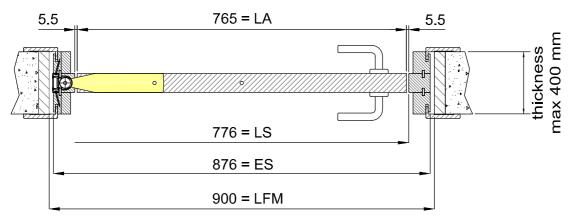


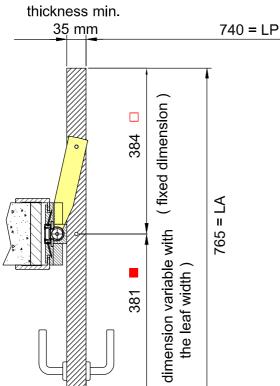


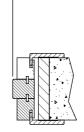
WALL THICKNESS UP TO 400 mm

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 dimensions 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.

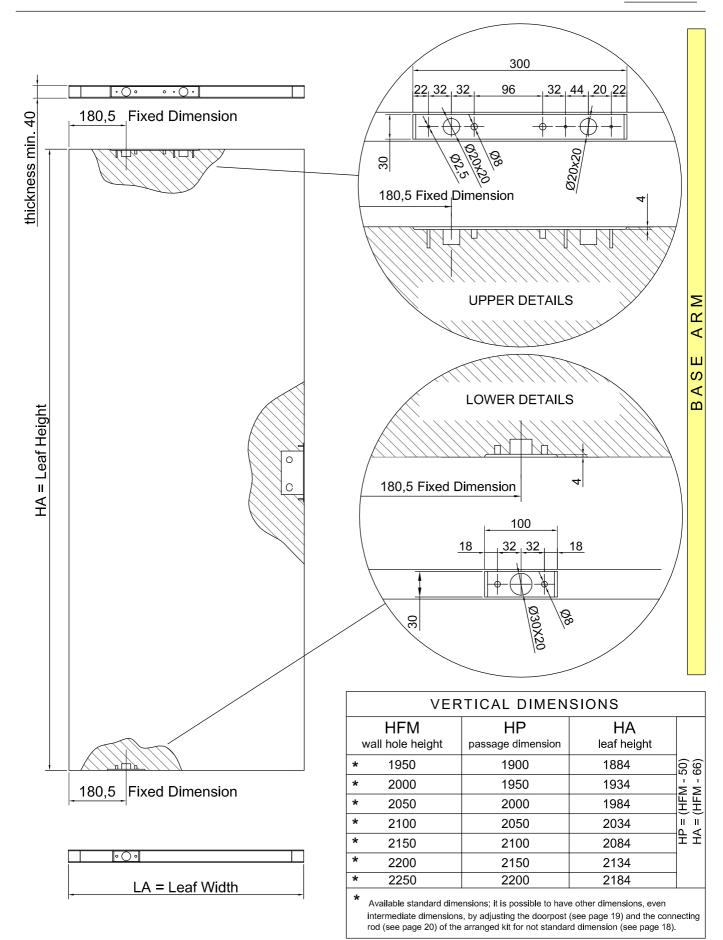
HORIZONTAL DIMENSIONS AND ENCUMBRANCE OF THE DOOR

| v | LFM vall hole width | LP passage dimensions | LA leaf width | max. encumbrance of the open door |
|---|------------------------|-----------------------|------------------|-----------------------------------|
| * | 800 | 640 | 665 | 384 🗆 |
| * | 850 | 690 | 715 | 384 □ |
| * | 900 | 740 | 765 | 384 ■□ |
| * | 950 | 790 | 815 | 431 |
| * | 1000 | 840 | 865 | 481 |
| * | 1050 | 890 | 915 | 531 |
| * | 1100 | 940 | 965 | 581 |

^{*} Available stardard dimensions: it is possible to have other dimensions, even intermediate dimensions (see page 18) by adjusting the track.

REV. 7 Page 6 of 24





REV. 7 Page 7 of 24

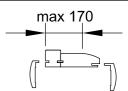


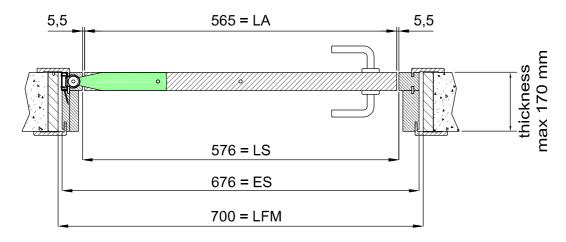
WITH ARM SMALL

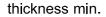


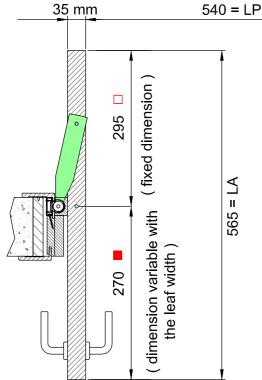
WALL THICKNESS UP TO 170 mm

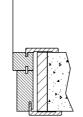
If rounded jambs are used, the above thickness wall dimension must be calculated only on the plane surface and not on the rounded side.











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 dimensions on the technical drawings refer to the 700 Wall Hole Width and it is the dimension in which the encumbrance of the open door is symmetric.

HORIZONTAL DIMENSIONS AND ENCUMBRANCE OF THE DOOR

| LFM wall hole width | LP passage dimensions | LA leaf width | max. encumbrance of the open door |
|------------------------|-----------------------|------------------|-----------------------------------|
| 610 | 450 | 475 | 295 🗆 |
| 650 | 490 | 515 | 295 🗆 |
| 700 | 540 | 565 | 295 ■□ |
| 750 | 590 | 615 | 320 |
| * 800 | 640 | 665 | 370 |

^{*} Available stardard dimensions: it is possible to have other dimensions, even intermediate dimensions (see page 18) by adjusting the track.

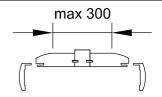
door is symmetric.
REV. 7

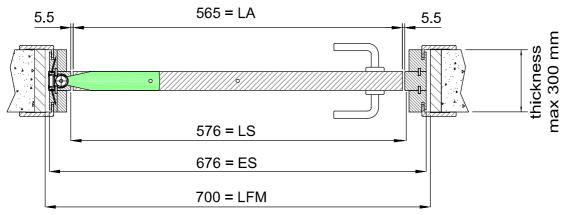


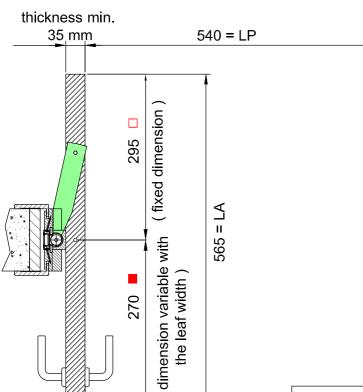
DIMENSIONAL DIAGRAM OF THE CENTERED DOOR WITH ARM SMALL

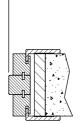
WALL THICKNESS UP TO 300 mm

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

REV. 7

The dimensions on the technical drawings refer to the 700 Wall Hole Width and it is the dimension in which the encumbrance of the open door is symmetric.

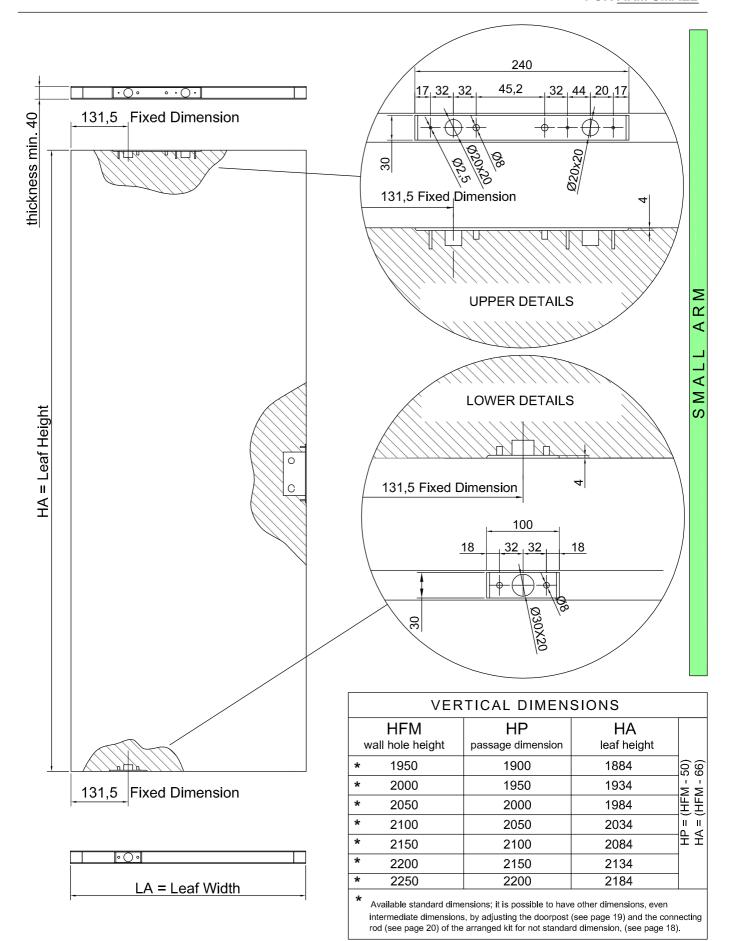
HORIZONTAL DIMENSIONS AND ENCUMBRANCE OF THE DOOR

| LFM wall hole width | LP passage dimensions | LA leaf width | max. encumbrance of the open door |
|------------------------|-----------------------|------------------|-----------------------------------|
| 610 | 450 | 475 | 295 🗆 |
| 650 | 490 | 515 | 295 🗆 |
| 700 | 540 | 565 | 295 ■□ |
| 750 | 590 | 615 | 320 |
| * 800 | 640 | 665 | 370 |

Available stardard dimensions: it is possible to have other dimensions, even intermediate dimensions (see page 18) by adjusting the track.

Page 9 of 24





REV. 7 Page 10 of 24

AR

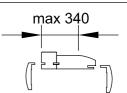


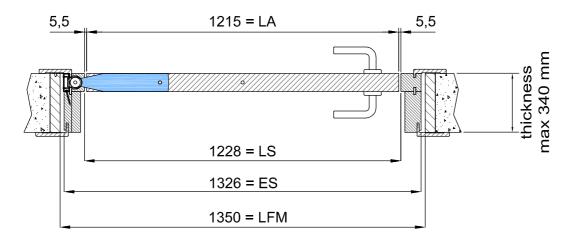
WITH ARM LARGE



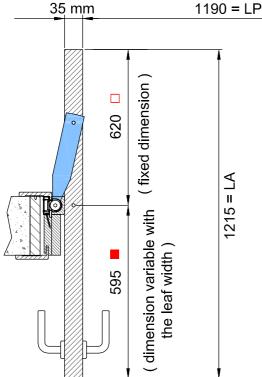
WALL THICKNESS UP TO 340 mm

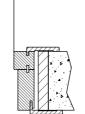
If rounded jambs are used, the above thickness wall dimension must be calculated only on the plane surface and not on the rounded side.











| | LEGEND |
|----|--|
| | = Passage dimensions (LFM - 160) = 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 dimensions on the technical drawings refer to the 1350 Wall Hole Width and it is the dimension in which the encumbrance of the open door is symmetric.

| | HORIZONTAL DIMENSIONS AND ENCUMBRANCE OF THE DOOR | | | | |
|---|---|-----------------------|------------------|-----------------------------------|--|
| | LFM wall hole width | LP passage dimensions | LA leaf width | max. encumbrance of the open door | |
| Ī | 1150 | 990 | 1015 | 620 🗆 | |
| Ī | 1200 | 1040 | 1065 | 620 🗖 | |
| Ī | 1250 | 1090 | 1115 | 620 🗆 | |
| Ī | * 1300 | 1140 | 1165 | 620 🗆 | |
| Ī | 1350 | 1190 | 1215 | 620 ■□ | |
| Ī | 1400 | 1240 | 1265 | 645 | |
| Ī | * 1450 | 1290 | 1315 | 695 | |

Available stardard dimensions: it is possible to have other dimensions, even intermediate dimensions (see page 18) by adjusting the track.

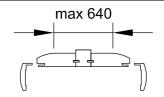
REV. 7 Page 11 of 24

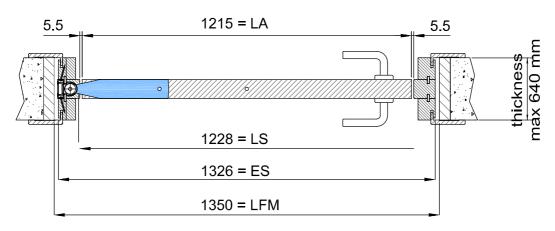


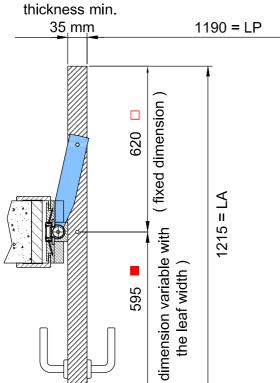


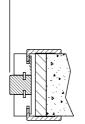
WALL THICKNESS UP TO 640 mm

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 dimensions on the technical drawings refer to the 1350 Wall Hole Width and it is the dimension in which the encumbrance of the open door is symmetric.

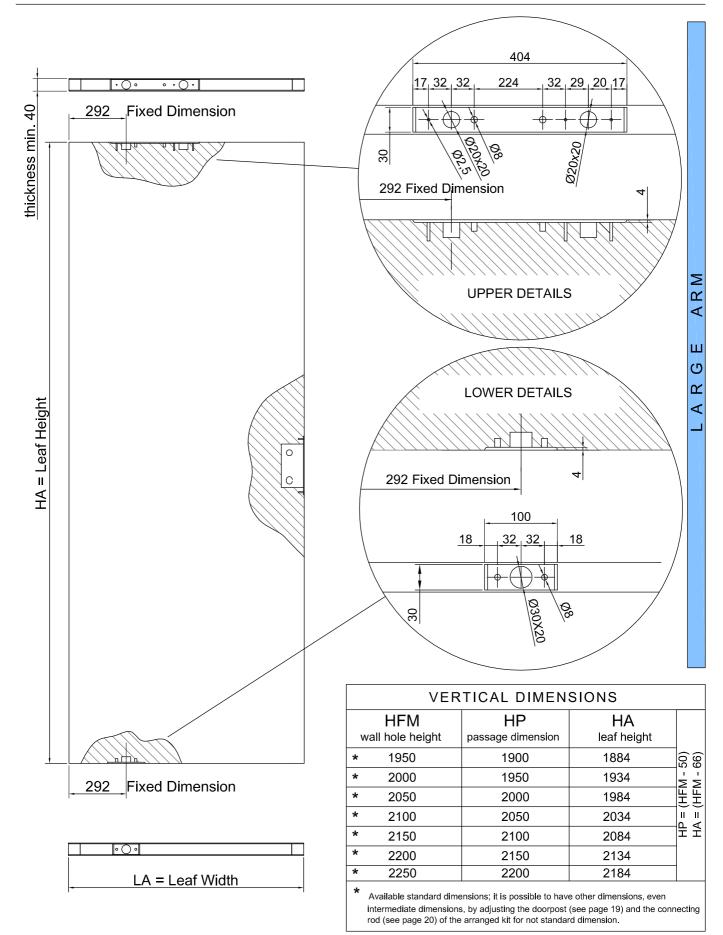
HORIZONTAL DIMENSIONS AND ENCUMBRANCE OF THE DOOR

| LFM wall hole width | LP passage dimensions | LA leaf width | max. encumbrance of the open door |
|------------------------|-----------------------|-------------------------|-----------------------------------|
| 1150 | 990 | 1015 | 620 🗆 |
| 1200 | 1040 | 1065 | 620 🗖 |
| 1250 | 1090 | 1115 | 620 🗆 |
| * 1300 | 1140 | 1165 | 620 🗆 |
| 1350 | 1190 | 1215 | 620 ■□ |
| 1400 | 1240 | 1265 | 645 |
| * 1450 | 1290 | 1315 | 695 |

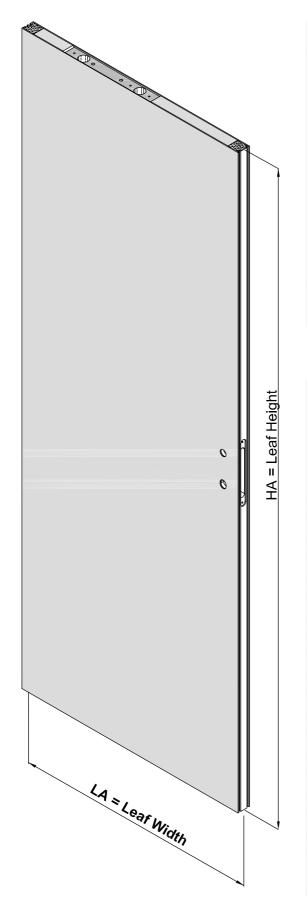
^{*} Available stardard dimensions: it is possible to have other dimensions, even intermediate dimensions (see page 18) by adjusting the track.

REV. 7 Page 12 of 24









| | VERTICAL DIMENSIONS | | |
|-------|-------------------------|-----------------------------|-------------------|
| Т | HP = (HFM - 50) | HFM - 66) | |
| I G H | HFM WALL HOLE HEIGHT | HP HEIGHT PASSAGE DIMENSION | HA LEAF HEIGHT |
| НЕ | 1950 | 1900 | 1884 |
| ٥ | 2000 | 1950 | 1934 |
| A R | 2050 | 2000 | 1984 |
| | 2100 | 2050 | 2034 |
| A | 2150 | 2100 | 2084 |
| ST | 2200 | 2150 | 2134 |
| 3, | 2250 | 2200 | 2184 |

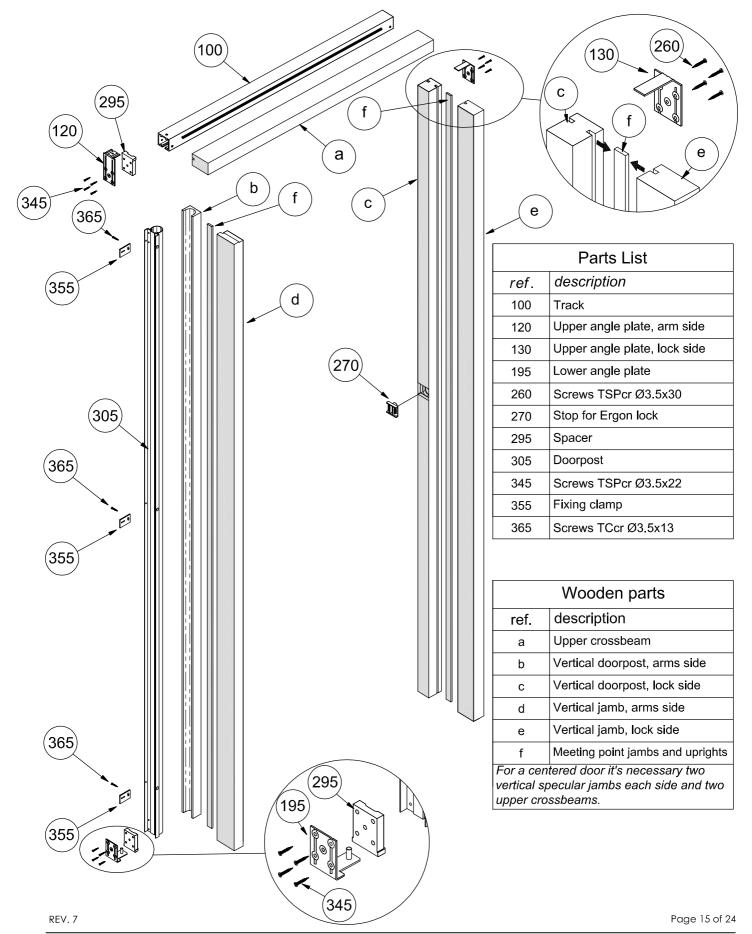
Available standard dimensions: it's possible to have other dimensions, even intermediate dimensions, by adjusting the doorpost (see page 19) and the connecting rod (see page 20) of the arranged kit for not standard dimension.

| HORIZONTAL DIMENSIONS | | | | | | |
|-----------------------|-------|-------|------------------------|----------------------------|------------------|------------|
| GE | | 0 = | | LP = (LFM - 1 | 160) LA = (L | .FM - 135) |
| LAR | BASIC | SMALL | LFM WALL HOLE WIDTH | LP WIDTH PASSAGE DIMENSION | LA LEAF WIDTH | |
| | | | 610 | 450 | 475 | |
| | | | 650 | 490 | 515 | |
| | | | 700 | 540 | 565 | |
| | • | | 750 | 590 | 615 | |
| | (1) | (1) | 800 | 640 | 665 | |
| | | | 850 | 690 | 715 | |
| | (| | 900 | 740 | 765 | |
| | | | 950 | 790 | 815 | |
| | | | 1000 | 840 | 865 | |
| | (| | 1050 | 890 | 915 | |
| | • | | 1100 | 940 | 965 | |
| | | | 1150 | 990 | 1015 | |
| | | | 1200 | 1040 | 1065 | |
| | | | 1250 | 1090 | 1115 | |
| (1) | | | 1300 | 1140 | 1165 | |
| | | | 1350 | 1190 | 1215 | |
| | | | 1400 | 1240 | 1265 | |
| (1) | | | 1450 | 1290 | 1315 | |
| (1) | | | | | | |

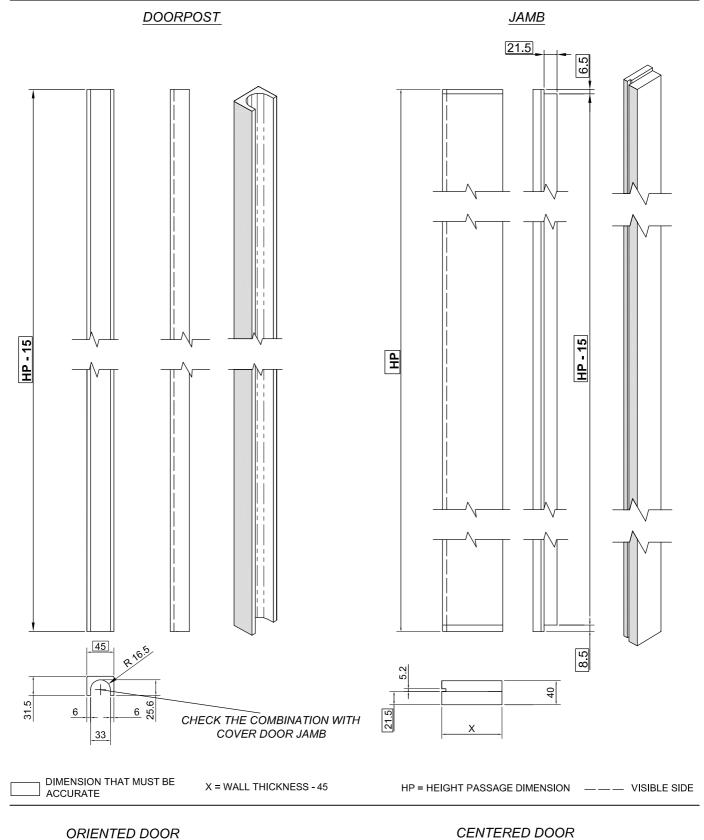
Available dimensions, by adjusting the track, see page 18 (it is possible to have intermediate dimensions)

REV. 7 Page 14 of 24

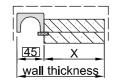




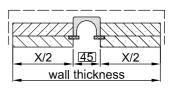




ORIENTED DOOR

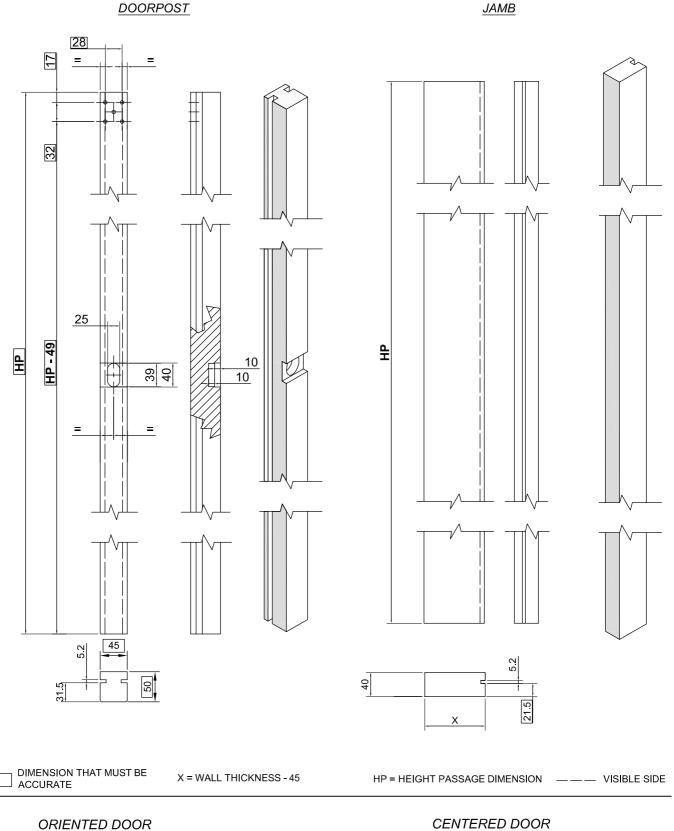


When the door is in the middle of the wall, you must have two specular jambs

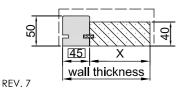


Page 16 of 24

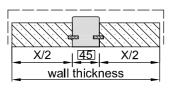




ORIENTED DOOR

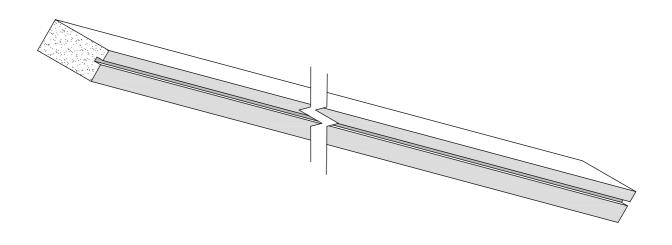


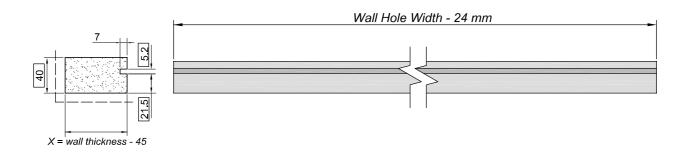
When the door is in the middle of the wall, you must have two specular jambs



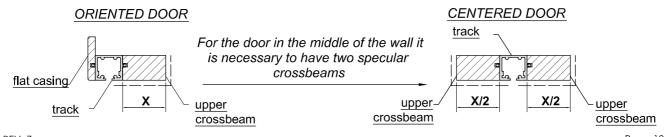
Page 17 of 24





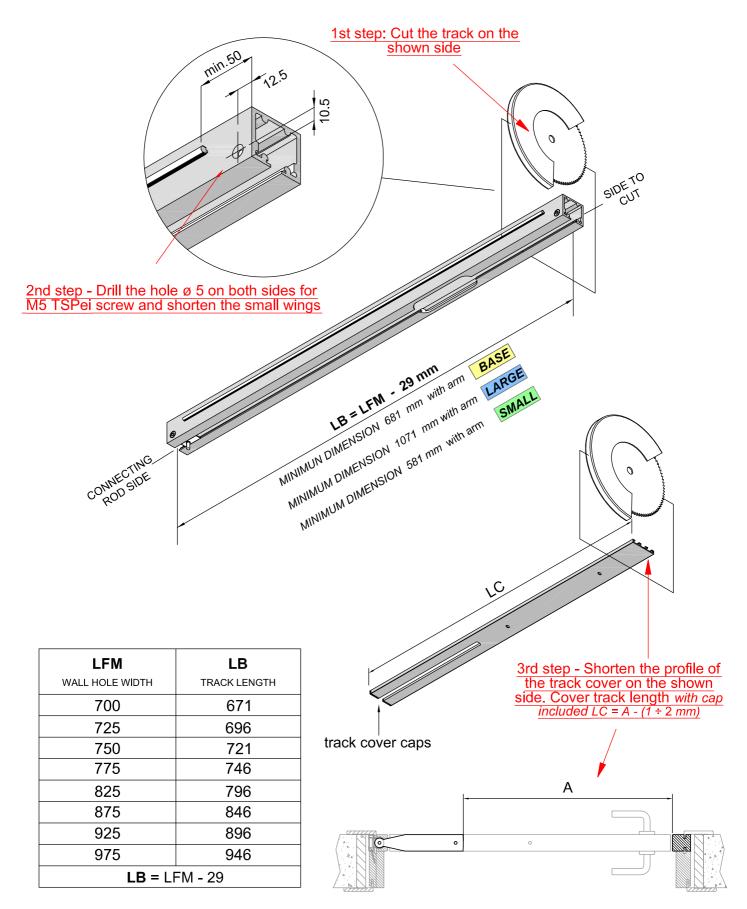


DIMENSION THAT MUST X = WALL THICKNESS - 45 ——— VISIBLE SIDE



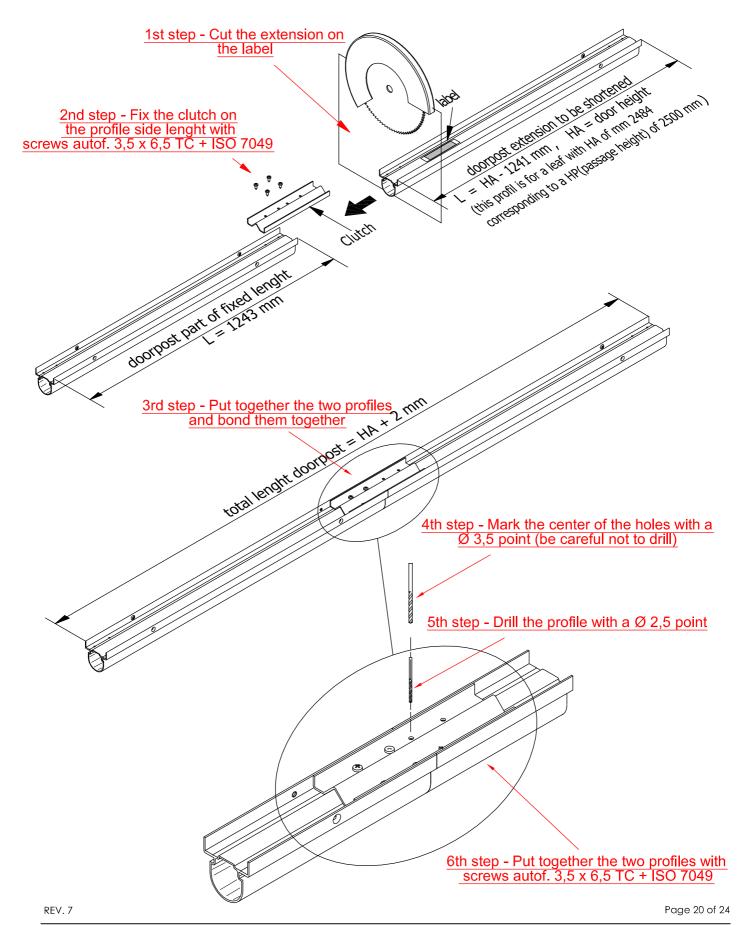
REV. 7 Page 18 of 24





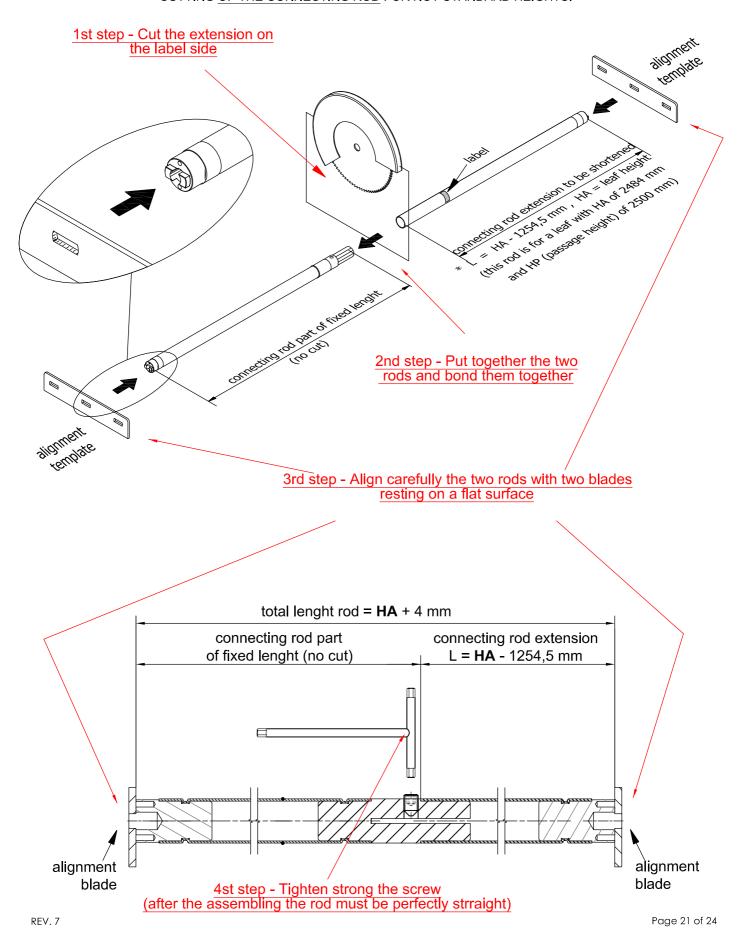


CUTTING OF THE DOORPOST FOR NOT STANDARD HEIGHTS.



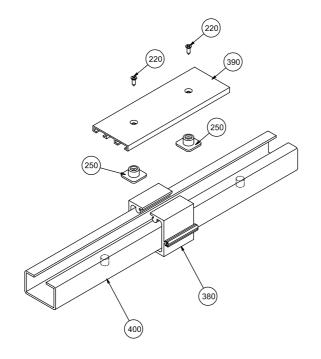


CUTTING OF THE CONNECTING ROD FOR NOT STANDARD HEIGHTS.



1

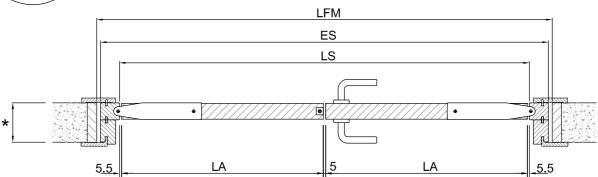
2



| | 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 | |

50

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



* N.B. For the limits of the wall thickness see page 5-6-8-9-11-12 in this manual.

LFM minimum 1600 mm. with **BASE** arm

LFM minimum 2300 mm. with **LARGE** arm

LFM minimum 1400 mm. with SMALL arm

REV. 7

Legend

 $\mathbf{LP} = \mathbf{P}$ assage \mathbf{D} imension (LFM - 200)

LA = Door **L**eaf **W**idth $(\underline{LFM - 136})$

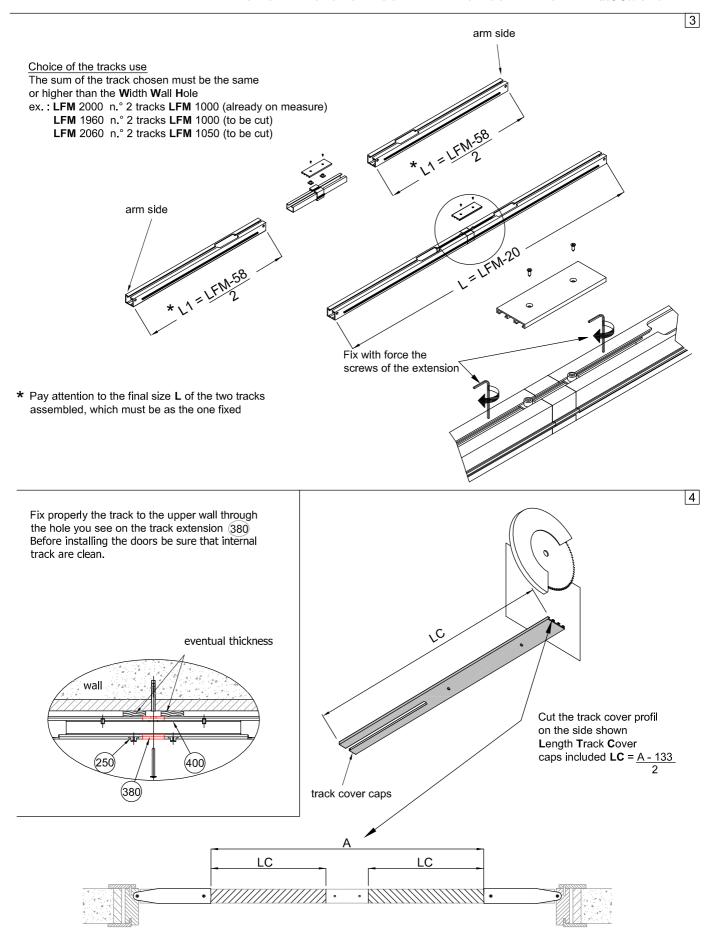
LS = Door Jamb Opening (LFM - 120)

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

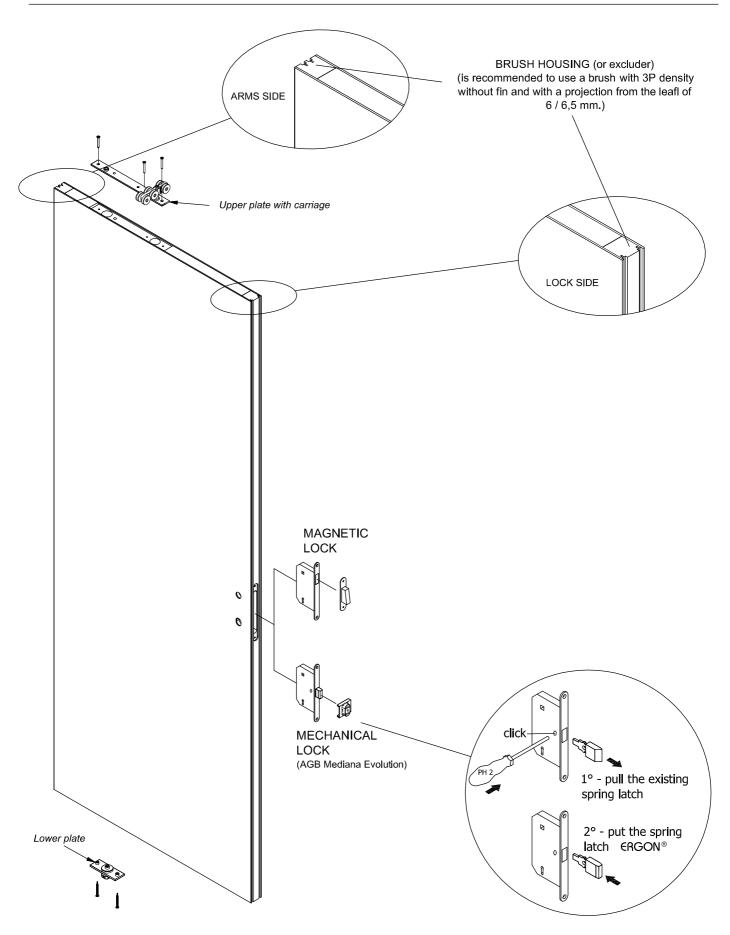
LFM = Wall Hole Width

Page 22 of 24

KIT UNION TRACKS FOR DOOR WITH TWO DOOR LEAFS WITH ERGON SYSTEM







REV. 7

All rights are reserved - Duplication or divulgation without authorization is strictly forbidden.

Page 24 of 24