



TECHNICAL CONSTRUCTION MANUAL COMPACK LIVING 90° system

CELEGON S.r.l. - Via G. Galilei, 6 - 30035 Mirano (Venezia) - T +39 (0)41 5728404 - F +39 (0)41 5728522 www.celegon.it - info@celegon.it



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1. INTRODUCTION

The COMPACK LIVING 90° system is part of the new generation hardware for folding hinged doors that do not use a track or hanger, similar to the tried and proven COMPACK LIVING 180° hardware (flush opening folding doors). The two COMPACK LIVING systems both use panels and doorframes that are identical in terms of dimensions and design.

The 90° opening is obtained by using an innovative hinge that allows the door leaf to: move silently, use a traditional lever handle, close against stops on three sides. These functional characteristics represent a clear innovation with respect to traditional systems. The **COMPACK LIVING 90°** hinge can be used for closet doors or other furnishing applications.

The **COMPACK LIVING** systems are designed for extreme simplicity and speed of installation.

With COMPACK LIVING systems, any dimension in width and height can be managed. The combined weight limit for the two leaves is 50 kg.

COMPACK LIVING 90° uses the special **COMPACK** magnetic latch with a lever handle on one side and a recessed handle on the other. With the **COMPACK** latch the recessed handle can be used to operate the latch. This system provides 180° rotation (*see Section 7. SPECIAL COMPACK MAGNETIC LATCH*).

The **COMPACK LIVING** systems provide stable, silent and ergonomic door operation. Stop on three sides ensures excellent acoustic insulation when the door is closed.

These systems leave maximum technical and aesthetic freedom in designing the door. Doors can be constructed in various versions to respond to the countless customer needs and to fit oversized dimensions.

COMPACK LIVING systems consist of steel plates connected one to another with steel pins and plastic bushings.

The door leaves are prepared in the same way for 90° or 180° opening. The same stock of semi-finished materials (doors leaves) and same preparatory work (milling, drilling) allow installation either of the COMPACK LIVING 90° hinge for a door opening to 90° or the COMPACK LIVING 180° hinge for a door opening to 180°.



The hardware is cleaned using a soft cloth being careful not to move the door during the cleaning process to prevent injury.

Never put your hands in among the moving arms when installing or operating the door.

Give the information sheets including in the package to the final user.



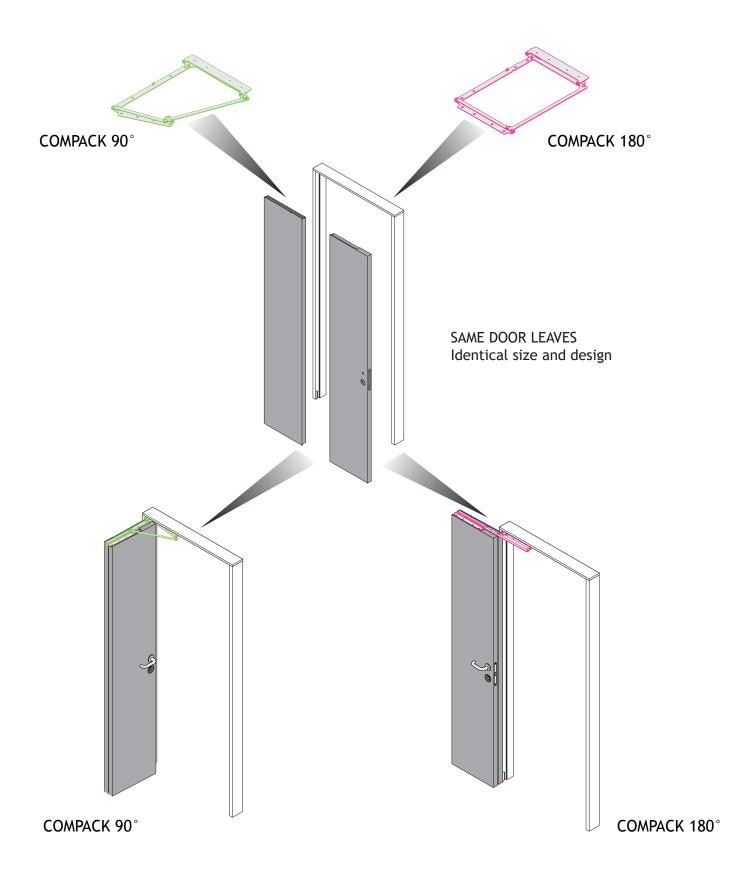
MEASUREMENT CALCULATOR



INSTALLATION VIDEO



2. COMPATIBILITY OF THE COMPACK LIVING SYSTEM





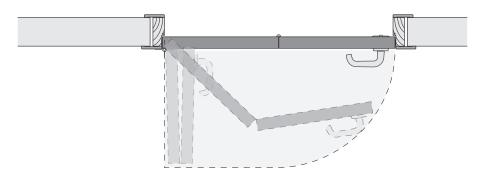
3. VARIANTS OF USE

To get the most out of the variants illustrated on this page, see the specifications for using the COMPACK latch (see Section 7. SPECIAL COMPACK LIVING MAGNETIC LATCH).

Version 1 With symmetric door leaves

By using the handle only on one side and the recessed handle on the other, is necessary to apply the magnetic lock **COMPACK**.

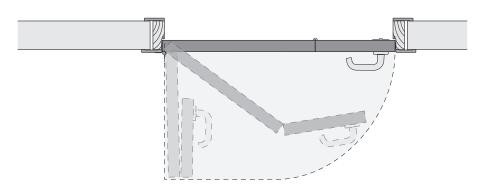
Version possible with all available items RIGHT/LEFT.



Version 2 With asymmetric door leaves with handle leaf from -100 to 0 lower

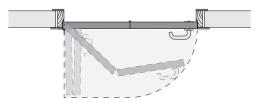
By using the handle only on one side and the recessed handle on the other, is necessary to apply the magnetic lock **COMPACK**.

Version possible with all available items RIGHT/LEFT.

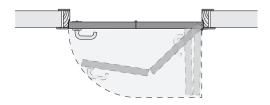


WAY OF OPENING

1 - Left opening



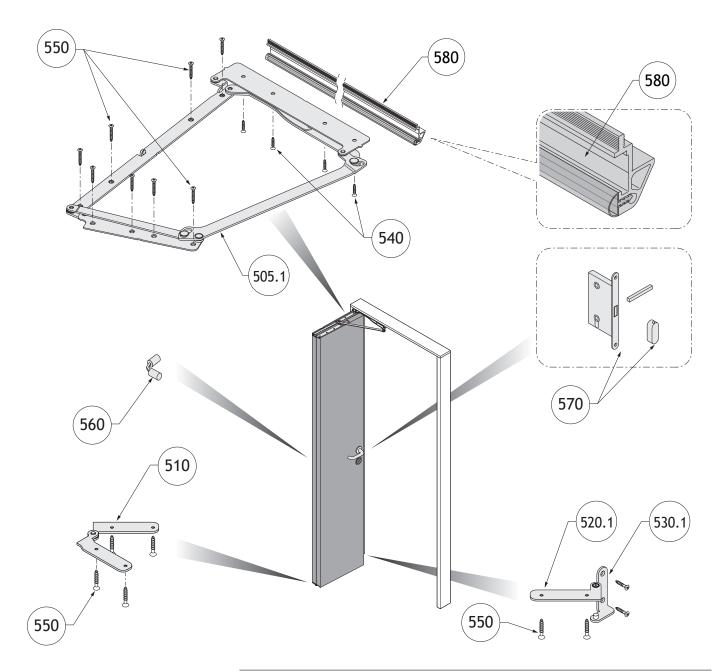
2 - Right opening





3.1 Hardware

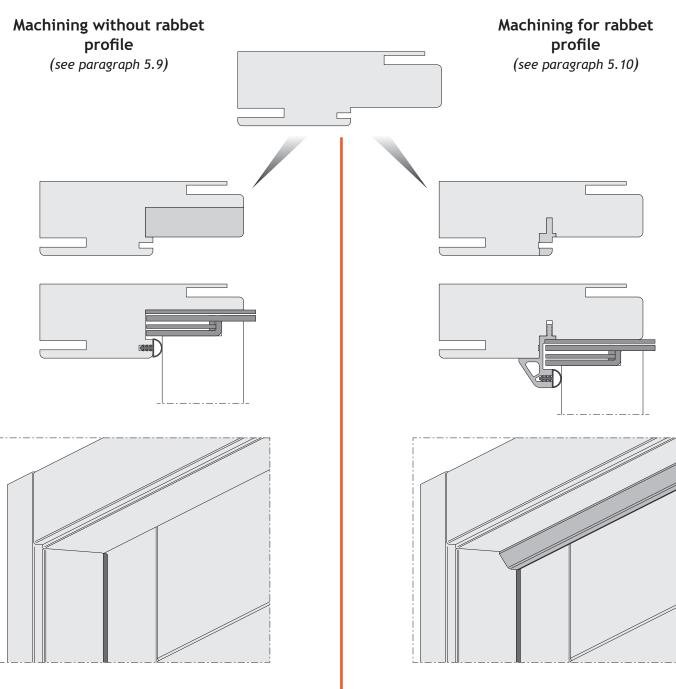
6



Part list					
Ref.	Q.ty	Description			
505.1	1	Compack Living 90 system RH or LH			
510	1	Central hinge lower			
520.1	1	Lateral hinge lower for leaf RH or LH			
530.1	1	Lateral hinge lower for jamb RH or LH			
540	4	Screw TSP trx ø 4x22			
550	16	Screw TSP trx ø 4x30			
560	1	Invisible hinge for alignment leaves			
570	1	Magnetic lock Compack Living with strikers and special square spindle (optional)			
580	1	Rabbet profile (optional) (gasket NOT supplied)			



3.2 Upper crossbeam machining

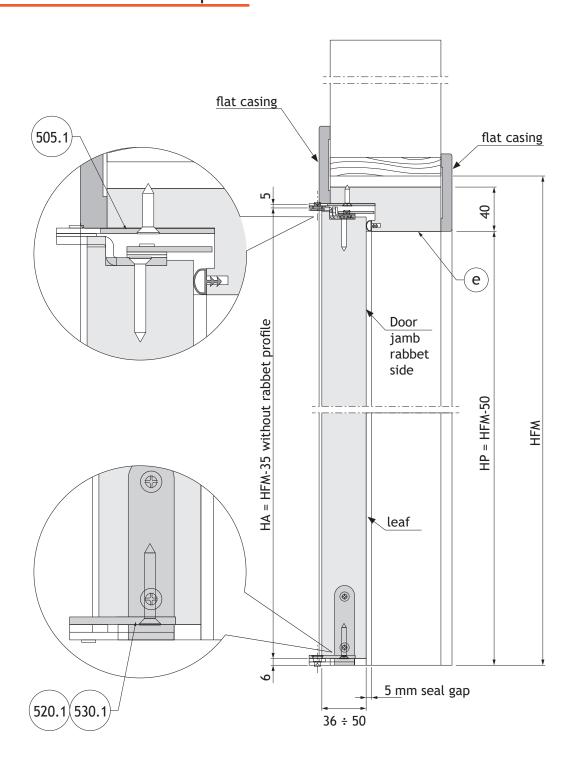


PROS	CONS
 With the door open you can hardly see the machining 	- Invasive machining
 With the door closed, you can't see anything. Like in a swing door 	 The finish on visible machined parts must be restored
	 The remaining part where the top plate is attached is a bit thin
	 For the same frame size, the panel is higher than a swing door

CONS
 With the door open you can see the profile
- With the door closed you can see the profile



3.3 Vertical section without rabbet profile



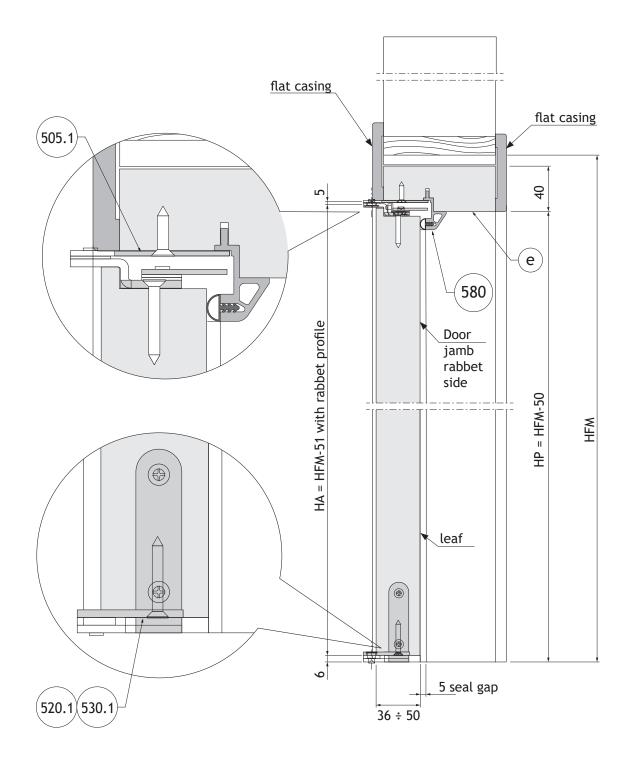
HFM = Wall Hole Height
HP = Passage Dimension

HA = Leaf Height

	Part list						
Ref.	Q.ty	Description					
505.1	1	Compack Living system 90 RH or LH					
520.1	1	Lateral hinge lower for leaf RH or LH					
530.1	1	Lateral hinge lower for jamb RH or LH					
е	1	Upper crossbeam					



3.4 Vertical section with rabbet profile



HFM = Wall Hole Height

HP = Passage Dimension

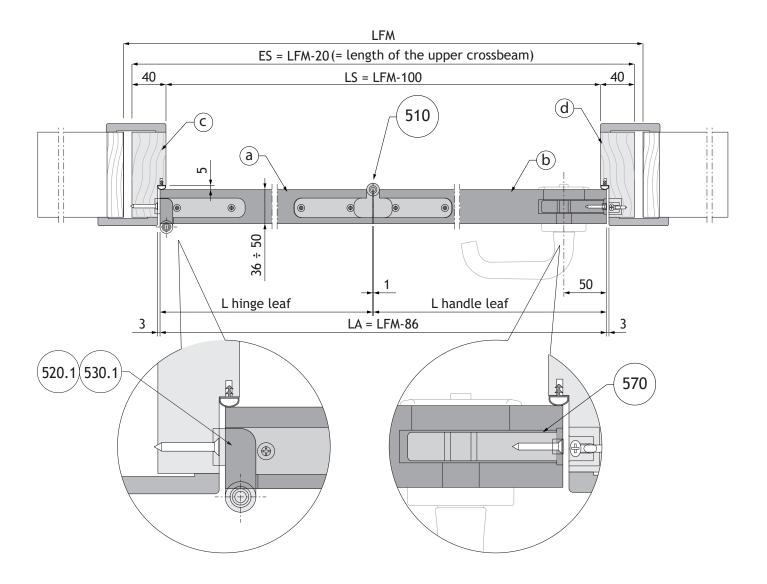
HA = Leaf Height

	Part list						
Ref.	Ref. Q.ty Description						
505.1	1	Compack Living 90 system RH or LH					
520.1	1	Lateral hinge lower for leaf RH or LH					
530.1	1	Lateral hinge lower for jamb RH or LH					
580	1	Rabbet profile (optional)					
е	1	Upper crossbeam					



3.5 Horizontal section left door

Example of Left Door (Right door is symmetric)



LFM = Wall Hole Width

ES = Outer Jamb

LS = Door Jamb Opening

LA = Leaf Width

Part list						
Ref.	Q.ty	Description				
510	1	Central hinge lower				
520.1	1	Lateral hinge lower for leaf RH or LH				
530.1	1	Lateral hinge lower for jamb RH or LH				
570	1	Magnetic lock Compack Living with strikers and special square spindle				
a	1	Hinge leaf				
b	1	Handle leaf				
С	1	Hinge side door jamb				
d	1	Handle side door jamb				



3.6 Dimensional diagram of the door - symmetric leaves

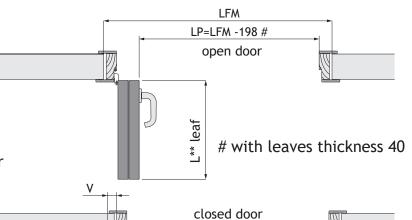
Version 1 - symmetric leaves								
LFM	LP	L** hinge leaf	L** handle leaf	Z	** handle leaf 7	V	art. CO	MPACK
LI /Y\	Li	L Hillige teal	L Handle tear	L	,	BLACK finish	INOX finish	
700	502	306,5	306,5	347	15	905F60DX	925F60DX	
700	302	300,3	300,3	347	13	905F60SX	925F60SX	
800	602	356,5	356,5	397	0	905F70DX	925F70DX	
000	002	330,3	330,3	371		905F70SX	925F70SX	
900	702	406,5	406,5	447	20	905A80DX	925A80DX	
700	702		700,5	77/	20	905A80SX	925A80SX	
1000	802	456,5	456,5	497	110	905B90DX	925B90DX	
1000	002	430,3	450,5	477	110	905B90SX	925B90SX	
1100	902	506,5	506,5	547	80	905B100DX	925B100DX	
1100	702	300,3	300,3	J -1 /		905B100SX	925B100SX	

LFM = Wall Hole Width

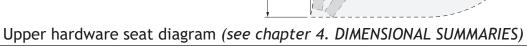
LP = Passage Dimension

Z = Encumbrance in opening

= Maximum lateral space requirement when opening door



Example of Left Door (Right door is symmetric)



7							
Version 1 - symmetric leaves							
art. CC	MPACK	L** hinge leaf	dimension X	L** handle leaf	dimension Y		
BLACK finish	INOX finish	L IIIIIge teal	difficition X	L Handle tear	ulliletision i		
905F60DX 905F60SX	925F60DX 925F60SX	306,5	208	306,5	234		
905F70DX 905F70SX	925F70DX 925F70SX	356,5	208	356,5	234		
905A80DX 905A80SX	925A80DX 925A80SX	406,5	258	406,5	284		
905B90DX 905B90SX	925B90DX 925B90SX	456,5	358	456,5	384		
905B100DX 905B100SX	925B100DX 925B100SX	506,5	358	506,5	384		

Y (compatible with 180°)

X (compatible with 180°)

L** hinge leaf

L** handle leaf

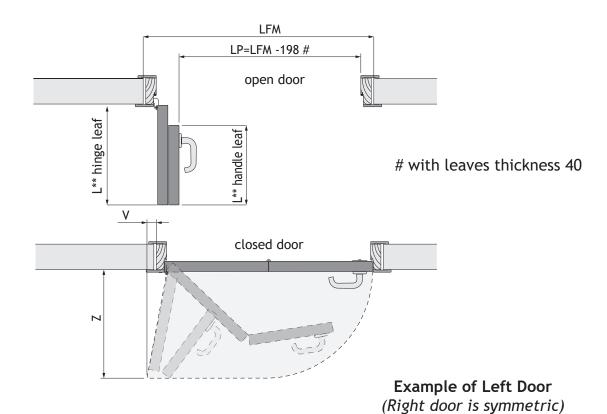
(**) Hinge leaf and handle leaf widths are calculated with a reciprocal distance of 1 mm.



3.7 Dimensional diagram of the door - asymmetric leaves

Handle leaf from -100 to 0 lower

Version 2 - asymmetric leaves (handle leaf from -100 to 0 lower)									
LFM	LP	L** hinge leaf	L** handle leaf Z	1 ** bandla laaf 7	7	7	V	art. CO	MPACK
LI /V	LF	L IIIIIge teal	L Handle leaf		v	BLACK finish	INOX finish		
600 ÷ 700	402 ÷ 502	306,5	206,5 ÷ 306,5	347	15	905F60DX 905F60SX	925F60DX 925F60SX		
700 ÷ 800	502 ÷ 602	356,5	256,5 ÷ 356,5	397	0	905F70DX 905F70SX	925F70DX 925F70SX		
800 ÷ 900	602 ÷ 702	406,5	306,5 ÷ 406,5	447	20	905A80DX 905A80SX	925A80DX 925A80SX		
900 ÷ 1000	702 ÷ 802	456,5	356,5 ÷ 456,5	497	110	905B90DX 905B90SX	925B90DX 925B90SX		
1000 ÷ 1100	802 ÷ 902	506,5	406,5 ÷ 506,5	547	80	905B100DX 905B100SX	925B100DX 925B100SX		



LFM = Wall Hole Width

LP = Passage Dimension

Z = Encumbrance in opening

V = Maximum lateral space

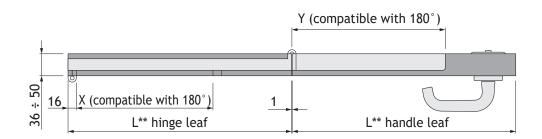
requirement when opening door



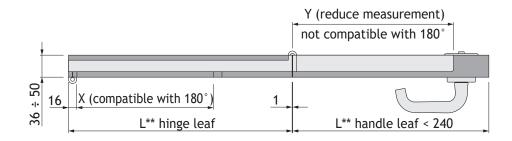
	_				
Ilnner ha	ardwara	coat diagram	(see chanter A	. DIMENSIONAL	SIIMMARIFS)
	aruware	scat diagram	isee chabter a	. DIMENSIONAL	JUMMANILJI

Version 2 - asymmetric leaves (handle leaf from -100 to 0 lower)							
art. CO	MPACK	L** hinge leaf	dimension X	L** handle leaf	dimension Y		
BLACK finish	INOX finish	L Hillige teal	difficition X	L Handle leaf	differsion		
905F60DX 905F60SX	925F60DX 925F60SX	306,5	208	⁽¹⁾ 206,5 ÷ 306,5	(2) 234		
(*) WARNING: if t	he handle leaf (1) i	is less than 240 mm wide,	Y ⁽²⁾ must also be	reduced (A)			
905F70DX 905F70SX	925F70DX 925F70SX	356,5	208	256,5 ÷ 356,5	234		
905A80DX 905A80SX	925A80DX 925A80SX	406,5	258	306,5 ÷ 406,5	284		
905B90DX 925B90DX 905B90SX 925B90SX		456,5	358	⁽¹⁾ 356,5 ÷ 456,5	(2) 384		
(*) WARNING: if t	(*) WARNING: if the handle leaf ⁽¹⁾ is less than 390 mm wide, Y ⁽²⁾ must also be reduced (B)						
905B100DX 905B100SX	925B100DX 925B100SX	506,5	358	406,5 ÷ 506,5	384		

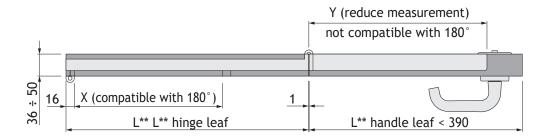
(*) (A) and (B): Cases of incompatibility with COMPACK LIVING 180°.



(A): if the handle leaf(1) is less than 240 mm wide, Y(2) must also be reduced.



(B): if the handle leaf⁽¹⁾ is less than 390 mm wide, $Y^{(2)}$ must also be reduced.



(**) Hinge leaf and handle leaf widths are calculated with a reciprocal distance of 1 mm.



4. DIMENSIONAL SUMMARIES

4.1 Single opening door

The following form is a summary all of possible realizable dimensions with the measurements. The **COMPACK LIVING 90**° system foresee a minimum wall opening **(LFM)** of 700 mm with symmetric leaves and of 650 mm with asymmetric leaves.

The maximum wall opening (LFM) with symmetric and asymmetric leaves is 1100 mm.

For intermediate measurements the handle leaf (version with asymmetrical door leaves) can be shortened.

	Summary dimensions for single opening door with symmetric leaves									
Wall Hole Handle Leaf	Passage Dimension	Fix Dimension	Working	Fix Dimension	Working	Encumbrance in opening	Encumbrance movement	art. COMPACK		
LFM	Difference	LP	L** hinge leaf	dimension x	L** handle leaf	dimension y	Z	V	BLACK finish	INOX finish
700	symmetric 0	502	306,5	208	306,5	234	347	15	905F60DX 905F60SX	925F60DX 925F60SX
800	symmetric 0	602	356,5	208	356,5	234	397	0	905F70DX 905F70SX	925F70DX 925F70SX
900	symmetric 0	702	406,5	258	406,5	284	447	20	905A80DX 905A80SX	925A80DX 925A80SX
1000	symmetric 0	802	456,5	358	456,5	384	497	110	905B90DX 905B90SX	925B90DX 925B90SX
1100	symmetric 0	905	506,5	358	506,5	384	547	80	905B100DX 905B100SX	925B100DX 925B100SX

	Summary dimensions for single opening door with asymmetric leaves									
Wall Hole Handle Leaf	Passage	Fix Dimension	Working	Variable Dimension	Working		Encumbrance	art. COMPACK		
Width LFM	Difference	Dimension 3	dimension y	in opening	movement V	BLACK finish	INOX finish			
600÷700	asymmetric from -100 to 0	402÷502	306,5	208	(1) 206,5÷306,5	⁽²⁾ 234	347	15	905F60DX 905F60SX	925F60DX 925F60SX
(*) WARN	(*) WARNING: if the handle leaf ⁽¹⁾ is less than 240 mm wide, Y ⁽²⁾ must also be reduced									
700÷800	asymmetric from -100 to 0	502÷602	356,5	208	256,6÷356,5	234	397	0	905F70DX 905F70SX	925F70DX 925F70SX
800÷900	asymmetric from -100 to 0	602÷702	406,5	258	306,5÷406,5	284	447	20	905A80DX 905A80SX	925A80DX 925A80SX
900÷1000	asymmetric from -100 to 0	702÷802	456,5	358	(1) 356,5÷456,5	⁽²⁾ 384	497	110	905B90DX 905B90SX	925B90DX 925B90SX
(*) WARNING: if the handle leaf ⁽¹⁾ is less than 390 mm wide, Y ⁽²⁾ must also be reduced										
1000÷1100	asymmetric from -100 to 0	802÷905	506,5	358	406,5÷506,5	384	547	80	905B100DX 905B100SX	925B100DX 925B100SX

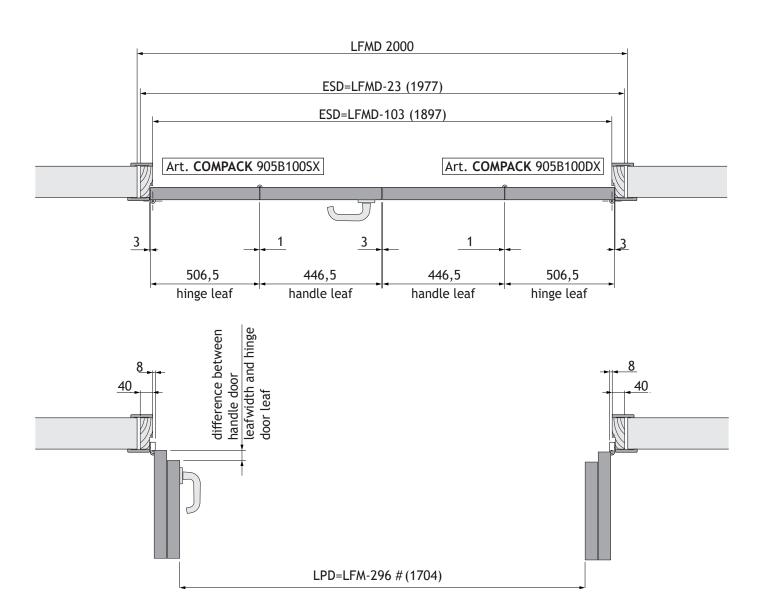
^(*) Cases of incompatibility with COMPACK LIVING 180 $^{\circ}$.



4.2 Dimensional diagram of the double opening door

Dimensional example

Attention: you need to use two hardwares COMPACK LIVING, one right and one left.



with leaves thickness 40

LFMD = Double Wall Opening Width

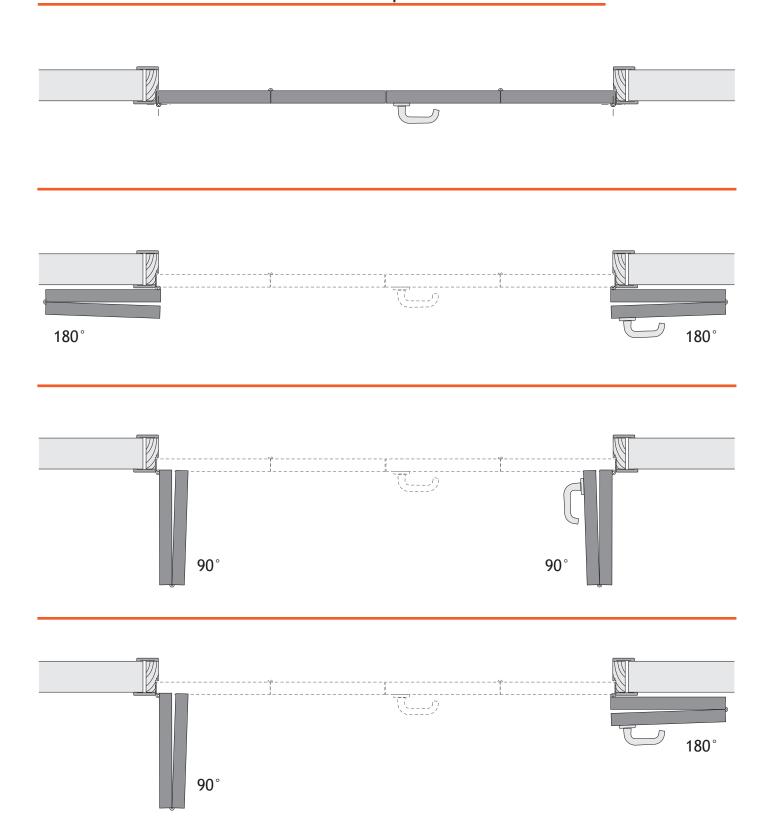
ESD = External Jamb Double (LFMD-23)

LSD = Light Jamb Double (LFMD-103)

LPD = Width Passagge Double Door Leaf (LFM -296 #)



4.3 COMPACK LIVING 180° - 90° combination possibilities on double doors



Possible combinations using the same components in wood



4.4 Double opening door

The following form is a summary all of possible realizable dimensions with the measurements. The **COMPACK LIVING 90**° system foresee a minimum wall opening **(LFM)** of 1320 mm with symmetric leaves and of 1120 mm with asymmetric leaves.

The maximum wall opening (LFM) with symmetric and asymmetric leaves is 2120 mm. For intermediate measurements the handle leaf (version with asymmetrical door leaves) can be shortened.

	Summary dimensions for double opening door with symmetric leaves									
Wall Hole Handle Leaf	Handle Leaf	Passage Dimension	Fix Dimension	Working	Fix Dimension	Working		Encumbrance	art. COMPACK	
LFM	Difference Leaf Dimension LP L** hinge leaf L** handle leaf L** handle leaf L** handle leaf Z	Z	movement V	BLACK finish	INOX finish					
1320	symmetric 0	1024	306,5	208	306,5	234	347	15	905F60DX 905F60SX	925F60DX 925F60SX
1520	symmetric 0	1224	356,5	208	356,5	234	397	0	905F70DX 905F70SX	925F70DX 925F70SX
1720	symmetric 0	1424	406,5	258	406,5	284	447	20	905A80DX 905A80SX	925A80DX 925A80SX
1920	symmetric 0	1624	456,5	358	456,5	384	497	110	905B90DX 905B90SX	925B90DX 925B90SX
2120	symmetric 0	1824	506,5	358	506,5	384	547	80	905B100DX 905B100SX	925B100DX 925B100SX

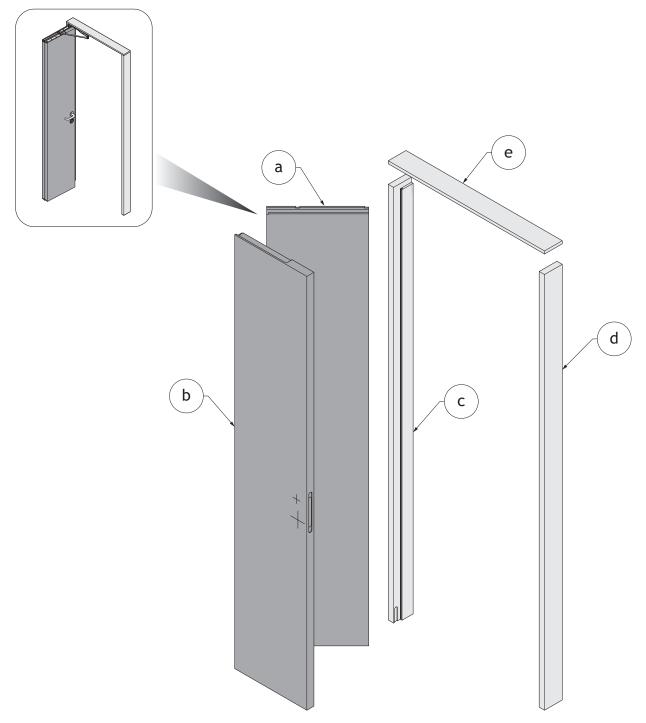
	Summary dimensions for double opening door with asymmetric leaves									
Wall Hole Handle Leaf	Handle Leaf	Passage	Fix Dimension	Working	Variable Dimension	Working		Encumbrance	art. COMPACK	
Width LFM	ath Difference Dimension 1 ** hinge dimension 1 1 ** handle dimension 1	in opening Z	movement V	BLACK finish	INOX finish					
1120÷1320	asymmetric from -100 to 0	864÷1024	306,5	208	(1) 206,5÷306,5	⁽²⁾ 234	347	15	905F60DX 905F60SX	925F60DX 925F60SX
(*) WARN	(*) WARNING: if the handle leaf ⁽¹⁾ is less than 240 mm wide, Y ⁽²⁾ must also be reduced									
1320÷1520	asymmetric from -100 to 0	1064÷1224	356,5	208	256,6÷356,5	234	397	0	905F70DX 905F70SX	925F70DX 925F70SX
1520÷1720	asymmetric from -100 to 0	1264÷1424	406,5	258	306,5÷406,5	284	447	20	905A80DX 905A80SX	925A80DX 925A80SX
1720÷1920	asymmetric from -100 to 0	1464÷1624	456,5	358	(1) 356,5÷456,5	(2) 384	497	110	905B90DX 905B90SX	925B90DX 925B90SX
(*) WARNING: if the handle leaf (1) is less than 390 mm wide, Y (2) must also be reduced										
1920÷2120	asymmetric from -100 to 0	1664÷1824	506,5	358	406,5÷506,5	384	547	80	905B100DX 905B100SX	925B100DX 925B100SX

^(*) Cases of incompatibility with COMPACK LIVING 180°.



5. COMPONENTS

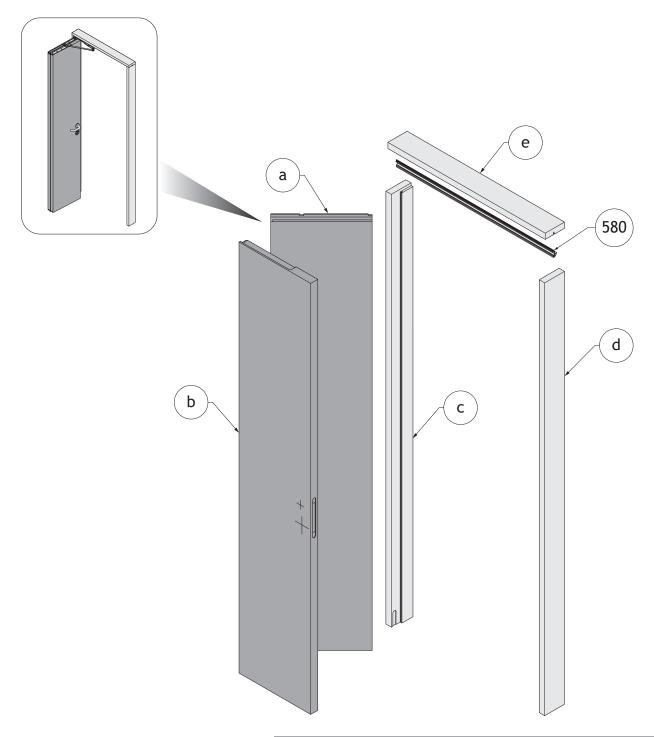
5.1 Wood components without rabbet profile compatible with COMPACK LIVING 180°



	Part list				
Ref.	Q.ty	Description			
a	1	Hinge leaf			
b	1	Handle leaf			
С	1	Hinge side door jamb			
d	1	Handle side door jamb			
е	1	Upper crossbeam			



5.2 Wood components with rabbet profile compatible with COMPACK LIVING 180°



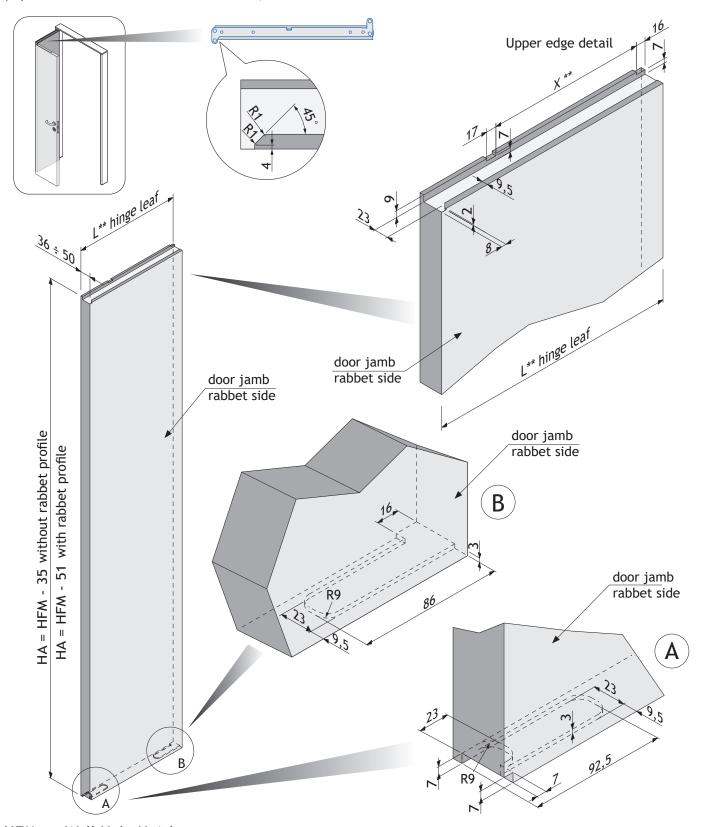
	Part list				
Ref.	Q.ty	Description			
580	1	Rabbet profile (optional)			
a	1	Hinge leaf			
b	1	Handle leaf			
С	1	Hinge side door jamb			
d	1	Handle side door jamb			
е	1	Upper crossbeam			



5.3 Door leaf hinge side (compatible with COMPACK LIVING 180°)

Left leaf door hinge side (Right door is symmetric)

(**) For dimensions see sections 3.6, 3.7



HFM = Wall Hole Height

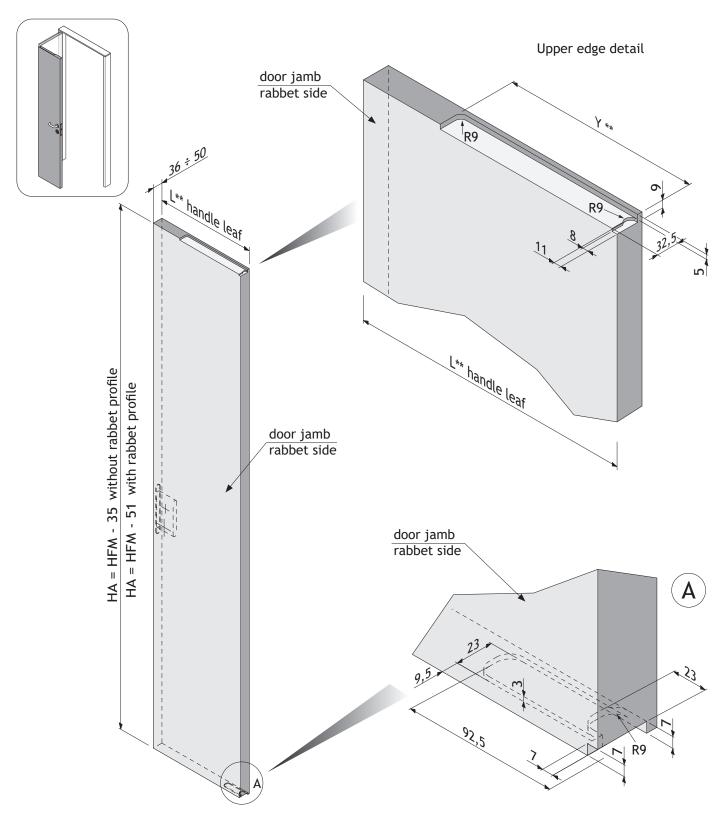
HA = Leaf Height



5.4 Door leaf handle side (compatible with COMPACK LIVING 180°)

Left leaf door handle side (Right door is symmetric)

(**) For dimensions see sections 3.6, 3.7



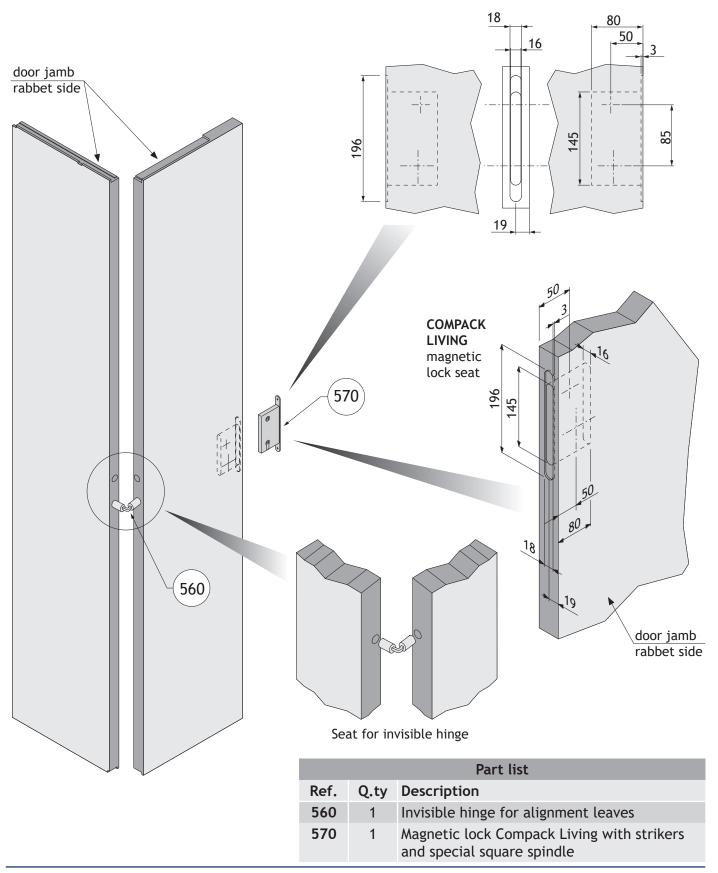
HFM = Wall Hole Height

HA = Leaf Height



5.5 Workings for accessories (compatible with COMPACK LIVING 180°)

The following work is necessary when installing the special COMPACK LIVING magnetic latch.



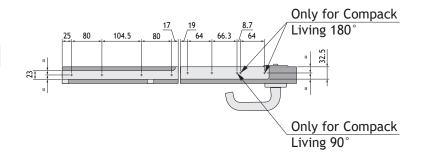


5.6 Door hardware mounting hole diagrams (compatible with COMPACK LIVING 180°)

Door hardware mounting holes for both door systems: 90° and 180°

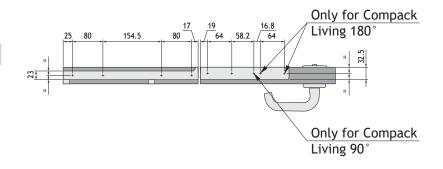
Hardware group F60

BLACK	INOX
805F60SX	825F60SX
805F60DX	825F60DX
905F60SX	925F60SX
905F60DX	925F60DX



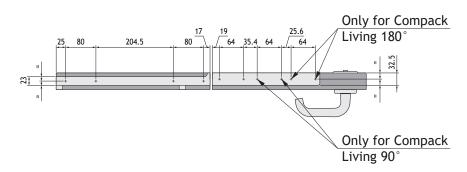
Hardware group F70

BLACK	INOX
805F70SX	825F70SX
805F70DX	825F70DX
905F70SX	925F70SX
905F70DX	925F70DX



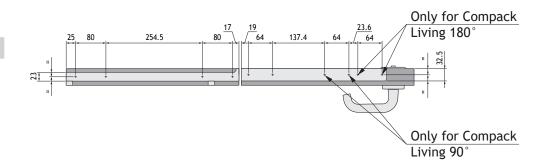
Hardware group A80

BLACK	INOX
805A80SX	825A80SX
805A80DX	825A80DX
905A80SX	925A80SX
905A80DX	925A80DX



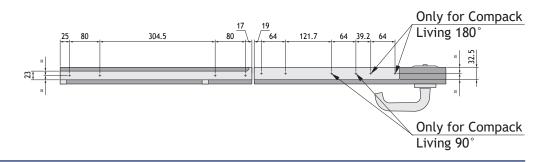
Hardware group B90

BLACK	INOX
805B90SX	825B90SX
805B90DX	825B90DX
905B90SX	925B90SX
905B90DX	925B90DX



Hardware group B100

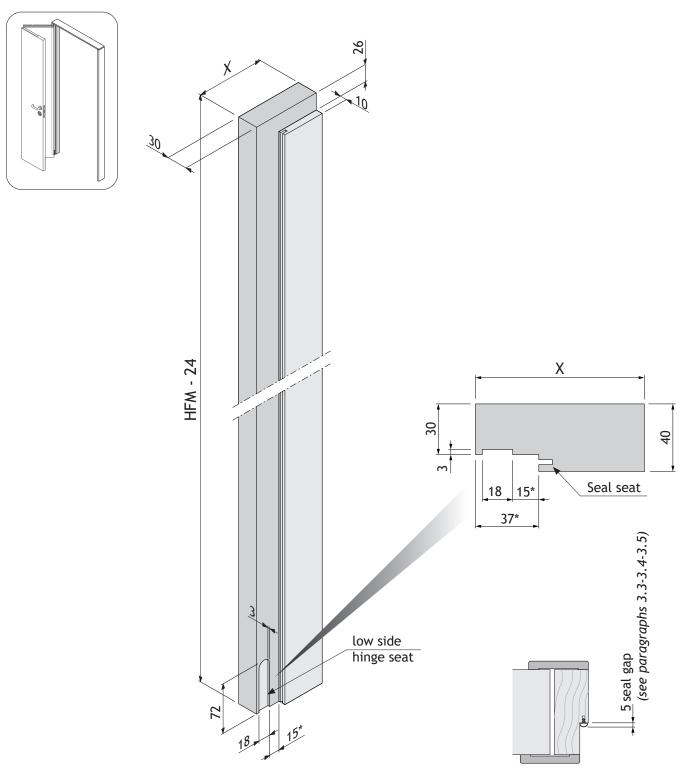
BLACK	INOX
805B100SX	825B100SX
805B100DX	825B100DX
905B100SX	925B100SX
905B100DX	925B100DX





5.7 Hinge side door jamb (compatible with COMPACK LIVING 180°)

Door left jamb hinge side (Right jamb is symmetric)



The dimension marked with (*) vary according to the seal gap dimensions

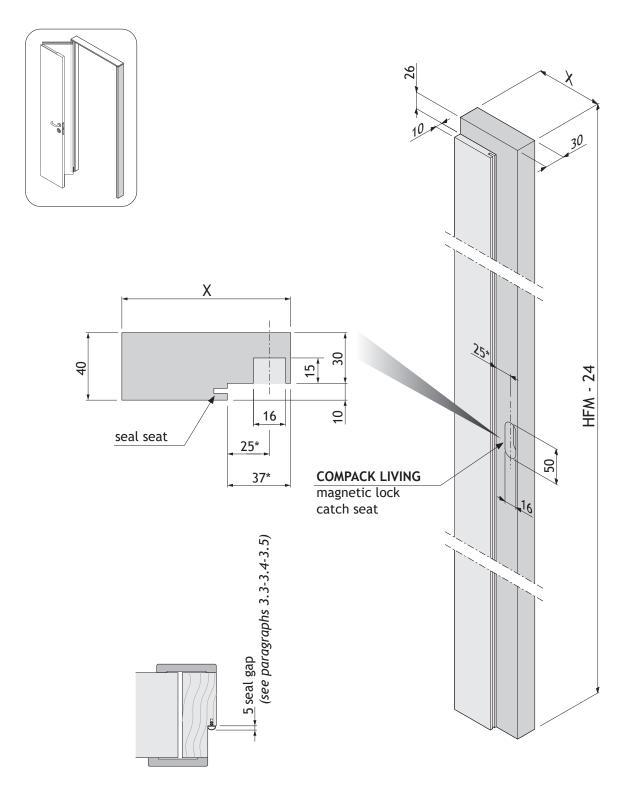
X = Wall Thickness

HFM = Wall Hole Height



5.8 Handle side door jamb (compatible with COMPACK LIVING 180°)

Door left jamb handle side (Right jamb is symmetric)

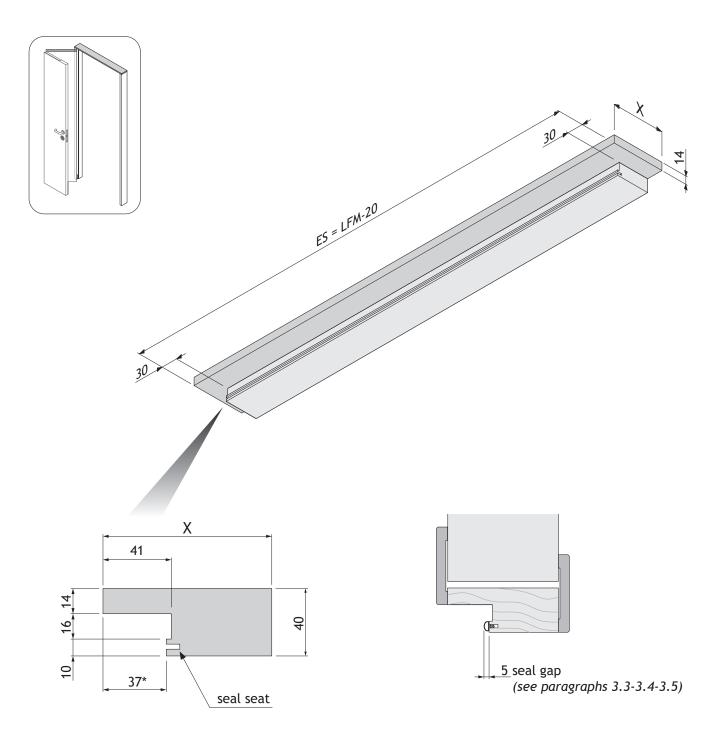


The dimension marked with (*) vary according to the seal gap dimensions.

X = Wall ThicknessHFM = Wall Hole Height



5.9 Upper crossbeam without rabbet profile (compatible with COMPACK LIVING 180°)



The dimension marked with (*) vary according to the seal gap dimensions.

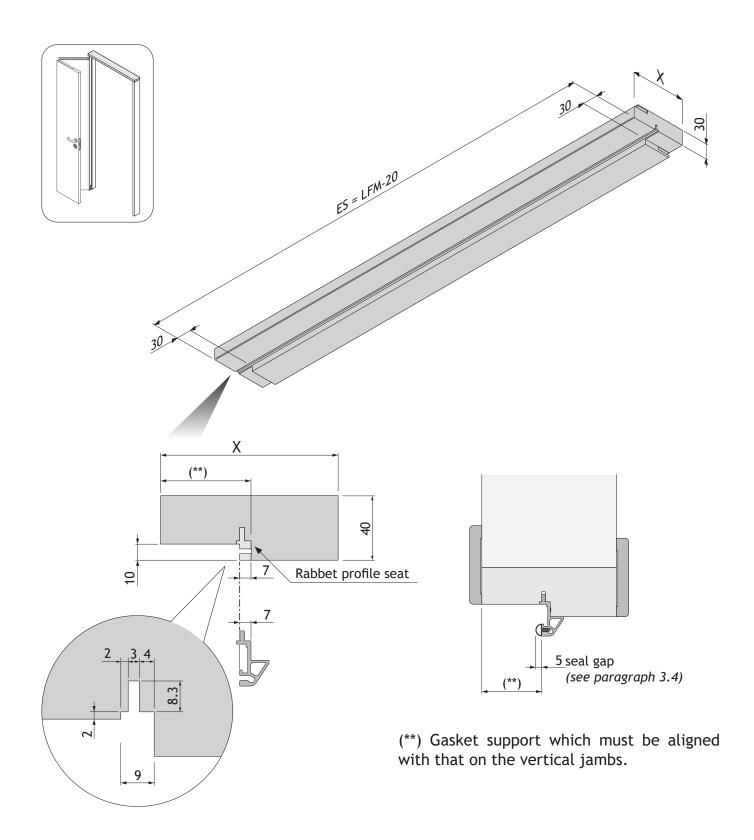
X = Wall Thickness

ES = Outer Jamb (= length of the upper crossbeam)

LFM = Wall Hole Width



5.10 Working for the silicone gasket (compatible with COMPACK LIVING 180°)



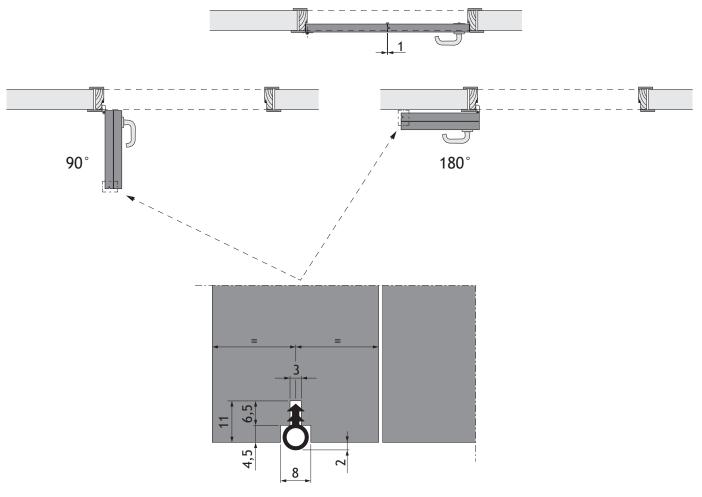
X = Wall Thickness

ES = Outer Jamb (= length of the upper crossbeam)

LFM = Wall Hole Width

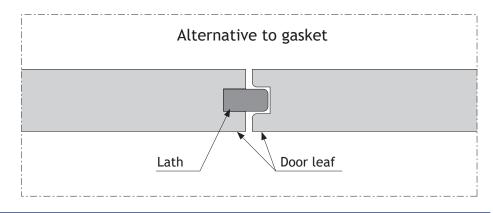


5.11 Working for the silicone gasket (compatible with COMPACK LIVING 180 $^{\circ}$)





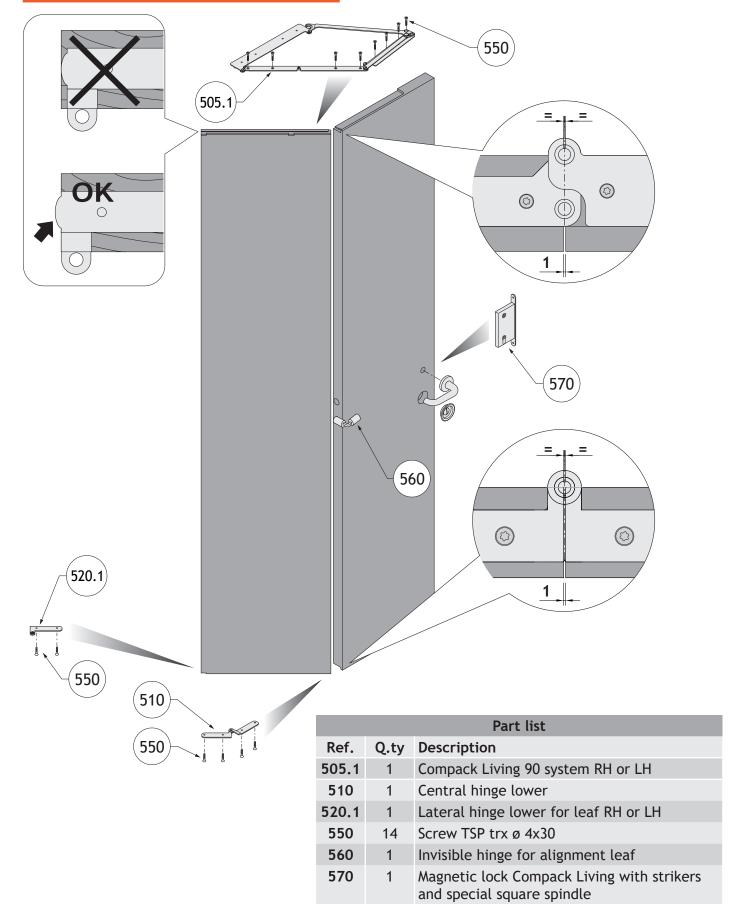
Item code gasket Roverplastik A 109 S 68 (Optional)





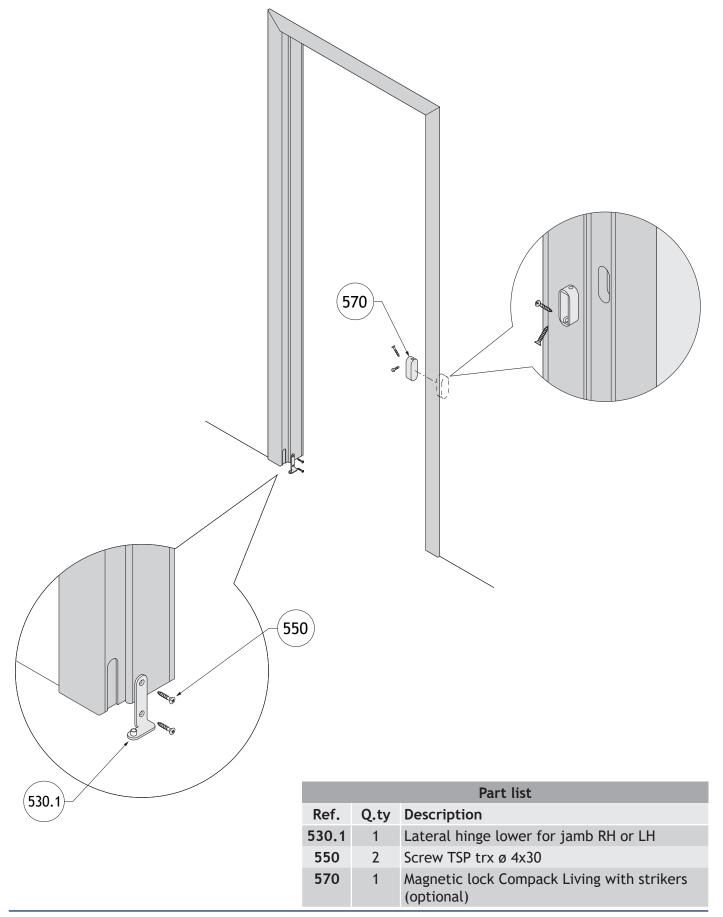
6. ASSEMBLY

6.1 Assembling the hardware on the leaf



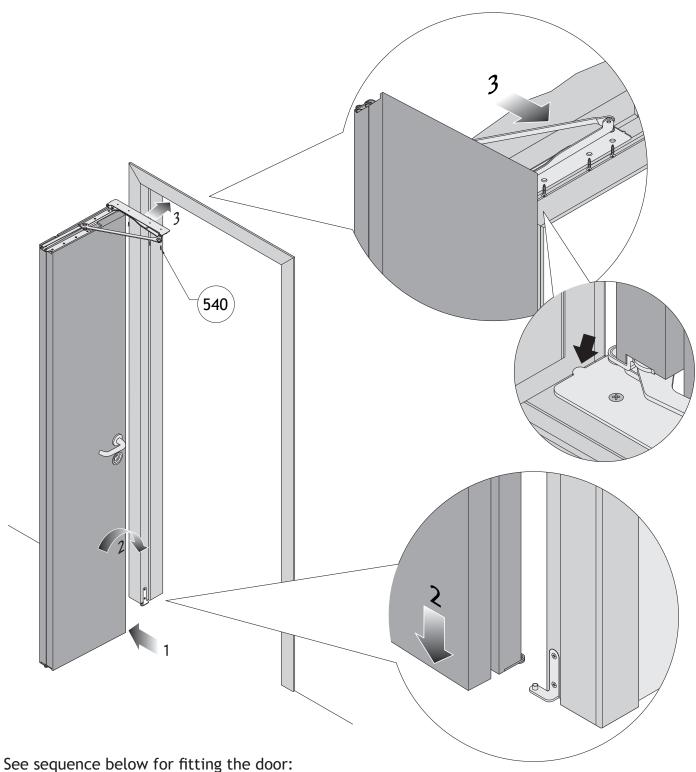


6.2 Assembling the hardware on the jamb





6.3 Installation door leaf on the jambs



- 1 fold the door leaves aganist one another
- 2 mount the door on the pivot of the hinge lower
- 3 position the top hardware pieces in perfect alignment with the corner and screw in place (screws included)

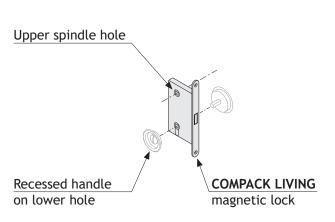
Part list				
Ref.	Q.ty	Description		
540	4	Screw TSP trx ø 4x22		



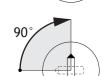
7. SPECIAL COMPACK LIVING MAGNETIC LATCH

If lever handles cannot be used because of the way the doors fold together, it is necessary to use the special **COMPACK** magnetic latch, which makes it possible to use a recessed handle on the lower section of the latch mechanism to lock the door or to retract the latch. This system provides 180° rotation. The special **COMPACK** magnetic latch also makes it possible to install the recessed handle on the upper section of the latch, to ensure privacy when the door opens into the room.

With the COMPACK hinge, the recessed handle installed on the lower section of the latch functions as follows:



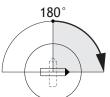
 0° door locked the lever handle does not open the 0° door



90° door unlocked the lever handle opens the door



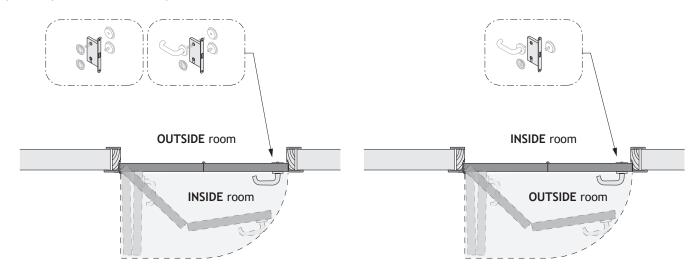
180° the recessed handle retract the lacth and opens the door



Recessed handle on upper latch section,

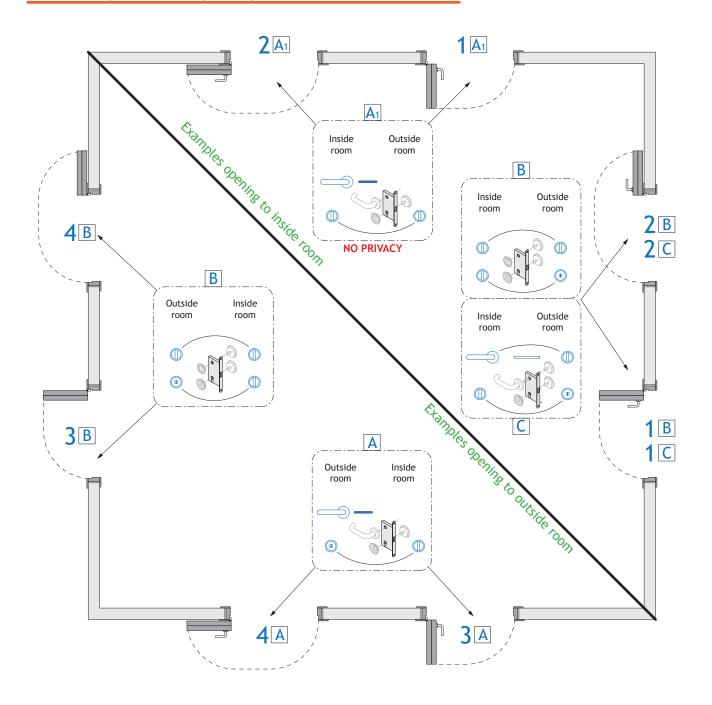
to ensure privacy when the door opens into the room.

To unite the lever handle with the recessed handle, use the special spindle in the latch pack





7.1 Examples for using the special COMPACK LIVING lock



- Traditional lever handle
 - Recessed handle with knob
 - Recessed handle
 - Special spindle square lock **COMPACK** (included in the lock's package)
 - Expansion spindle square (available on the market)

- 1 COMPACK LIVING 90° System opening to inside room
- 2 COMPACK LIVING 180° System opening to inside room
- 3 COMPACK LIVING 90° System opening to outside room
- 4 COMPACK LIVING 180° System opening to outside room



COMPACK LIVING 90° patented _		SMART OF ERING STOTEMS
	NOTES	
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MART OPENING SYSTEMS	COMPACK LIVING 90° patented
NOTES	·
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COMPACK living® is an idea CELEGON 30035 Mirano (Venezia) | Via G. Galilei, 6 - Z.I. T +39 041 572 8404 | F +39 041 572 8522

www.celegon.it | info@celegon.it