

Assembly Instructions Folding door AL601F/AL602F/AL603F/ST602F

Version 09/2023

Translation of the original Assembly Instructions

SCHNEIDER Torsysteme Gesellschaft m.b.H.

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Dear customer!

Thank you for your confidence in our Schneider door systems.

We would like to point out that the installation of the door system may only be carried out by a specialised company in order to guarantee the proper function and longevity of the product. This way, defects caused by assembly errors, which may occur later during the service life of the door system, can be avoided.

To ensure the safe and trouble-free use of the door system, please read the operating and maintenance instructions as well as the cleaning instructions.

The detailed representation of your individual door can be found in your release drawing.

Your Schneider Team

VERSION 09/2023

1 Essential information

1.1 Explanation of symbols used in safety information



Information on safe use



Tips for use and practical information

1.2 General safety information

- Close off the danger area extensively before installation.
- Persons who are not responsible for installing the door must not enter the danger area.
- A secure footing is required for installation
- Installation must be carried out by a specialist company
- To avoid crushing injuries, the door may only be closed and opened when there are no persons in the area of the door.
- The door must be taken out of use in case of defects and a competent fitter must be called in for inspection
- During installation, all general safety and accident prevention regulations must be observed
- The expert fitters must be trained in the use of safety equipment and in the handling of hand and power tools

2 Scope of supply of the door system

2.1 Parts of the door system

- Running rail
- Frame parts
- Door leaf
- · Assembly package with hardware and small parts
- Special accessories

The scope of supply depends on the respective type of door system (see order confirmation).

2.2 Required tools

- Impact drill
- Metal and concrete drill bits size 8, 10 and 12 mm
- Spanners and sockets size 13, 17, 19, 2x24 and 2x30 mm
- Set of Allen keys
- · Measuring tools: Spirit level, measuring tape, laser
- Ladder or work platform
- Wooden poles for support
- Wedges for securing
- Screw clamps

2.3 Assembly material (not part of the scope of supply)

The fastening material is to be selected on the basis of the type of ground the door will be installed on.

Common suitable fastening options:

- Concrete:
 - Brass expansion dowels
 - o M10 x 60 mm hex bolts
 - Washer
 - O HSA M10 x 90mm anchors
- Hollow brick:
 - o Frame dowels, e.g.: HILTI HRD-UGS 12x80/10U



To ensure the right type of fastening material, we recommend consulting a specialist.

3 General information

3.1 Setup/operation site requirements

- The ground must be level and plane
- On the opening side of the doors, the walls must be flush
- Only install the door in walls that structurally allow for its installation
- Adequate water drainage should be provided outside
- No electrical or installation lines must be running through the wall in the area of installation

3.2 Information on installing the door

- Once installed, the door must meet the requirements of EN 12604
- · Depending on the version, the door is installed in front of or behind the soffit
- · Leave elements in their packaging until you need them for assembly

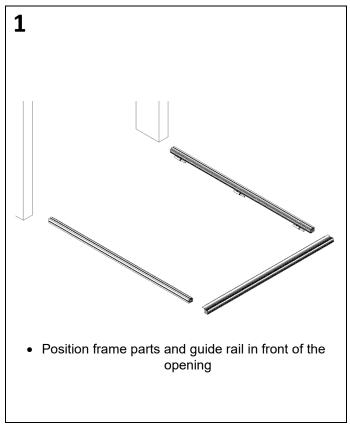
3.3 Information on using the door

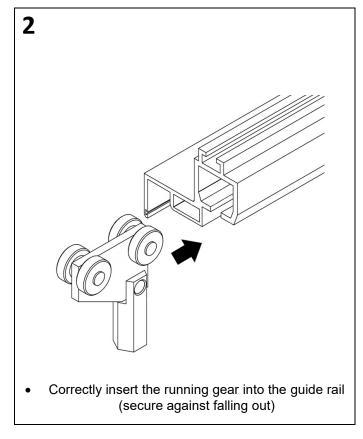
- The door may only be used if the requirements of EN 12453 are met
- Don't place objects in the area of the door
- Don't leave the door half way open

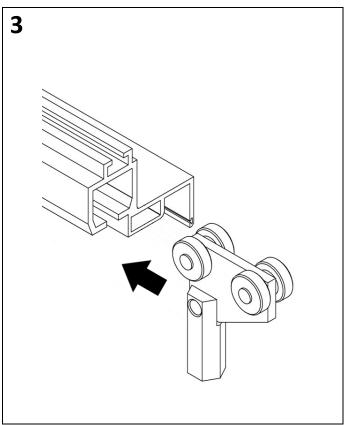
4 Installation

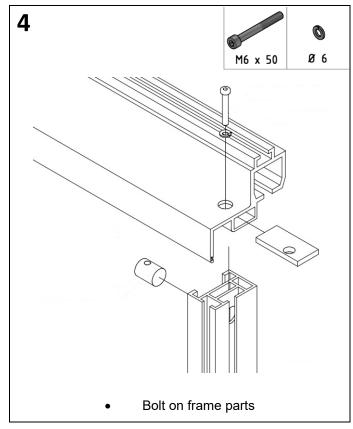
4.1 Preparation

4.1.1 90° guide rail AL601F

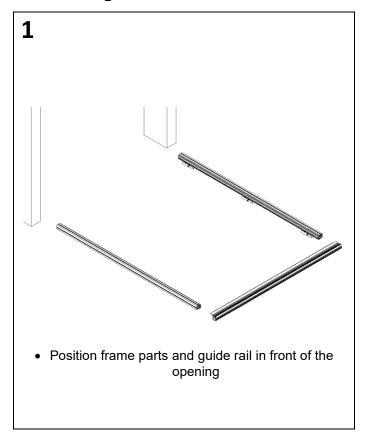


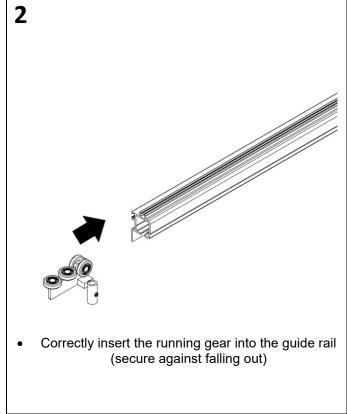


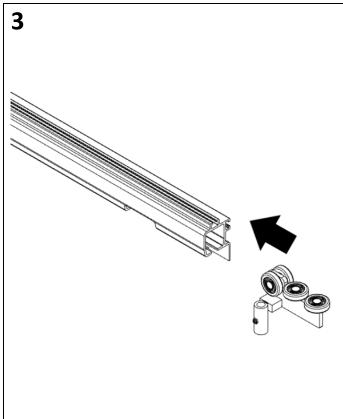


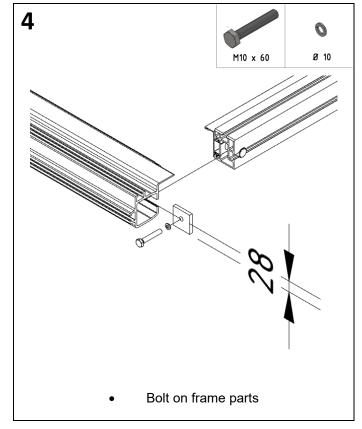


4.1.2 90° guide rail AL602F/AL603F/ST602F

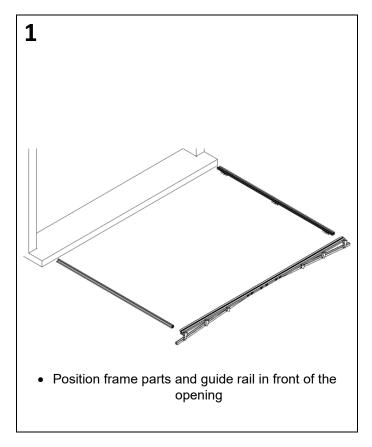


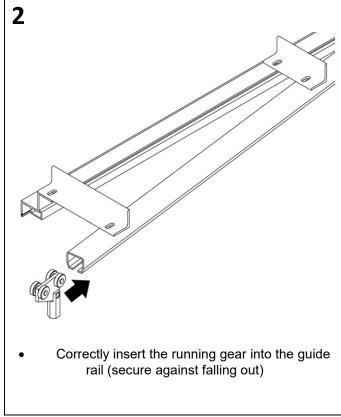


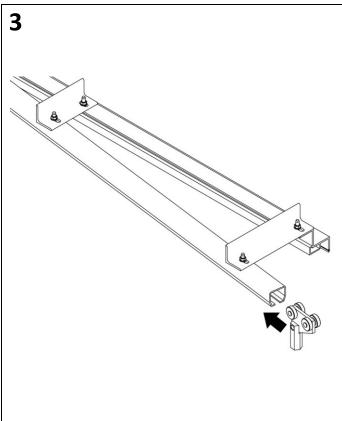


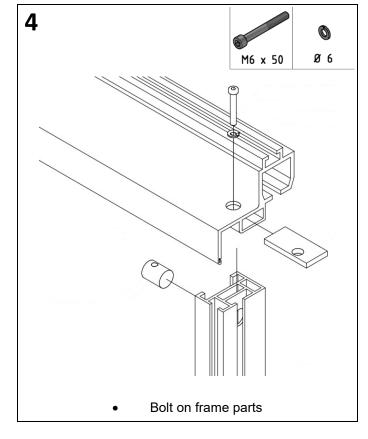


4.1.3 180° guide rail AL601F

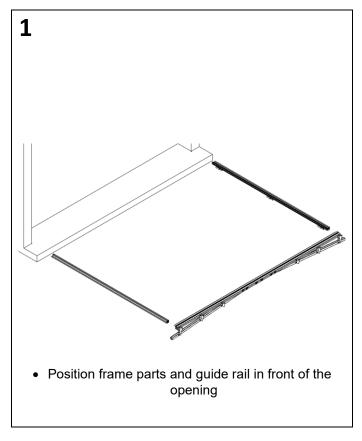


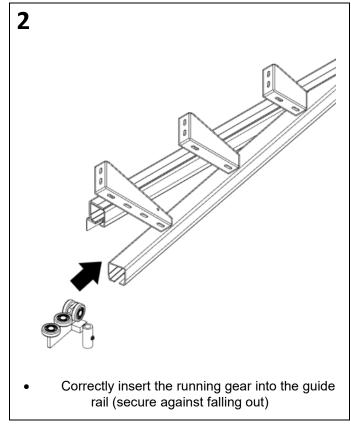


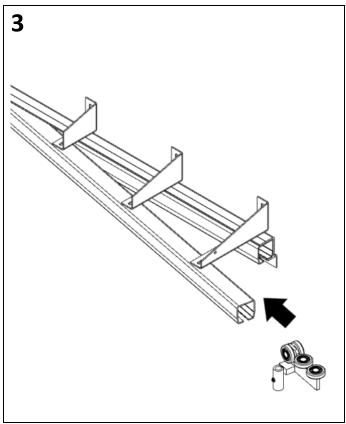


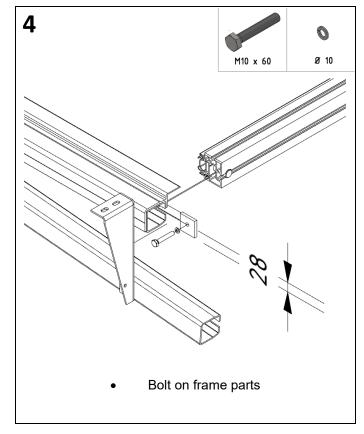


4.1.4 180° guide rail AL602F/AL603F/ST602F



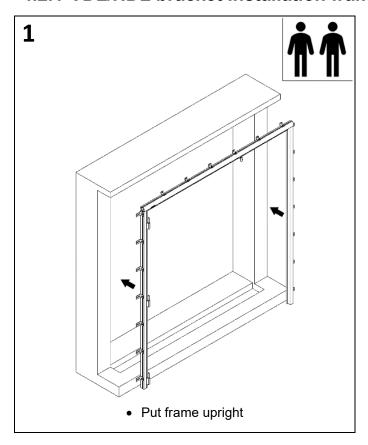


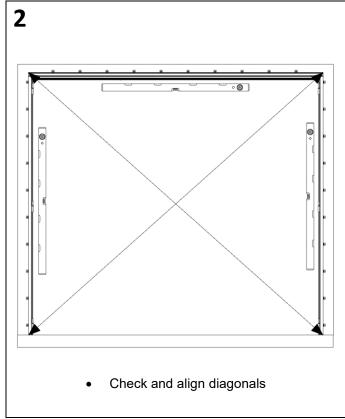


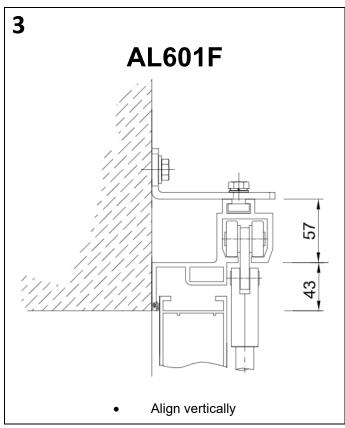


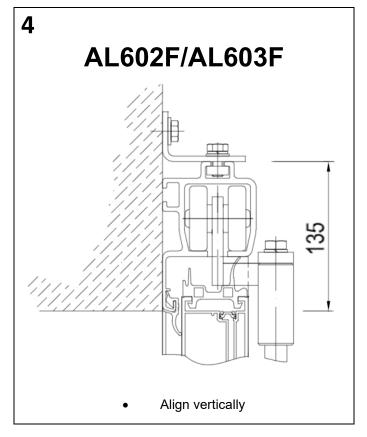
4.2 Frame installation

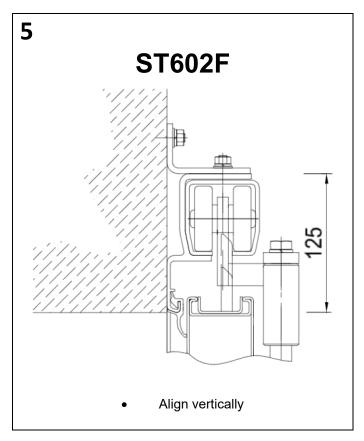
4.2.1 VDL/HDL bracket installation frame / LS 90°

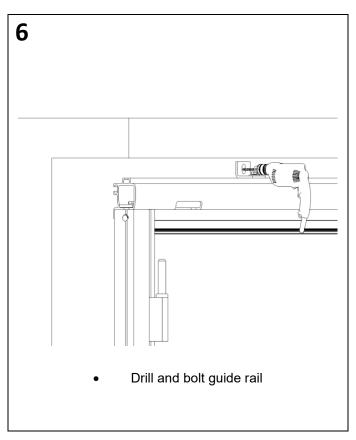


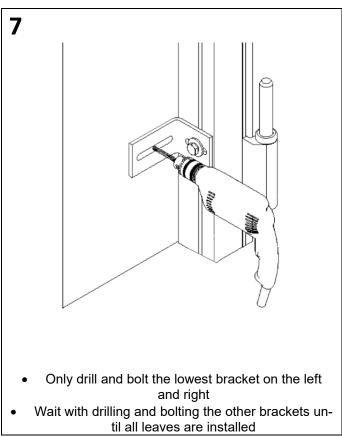




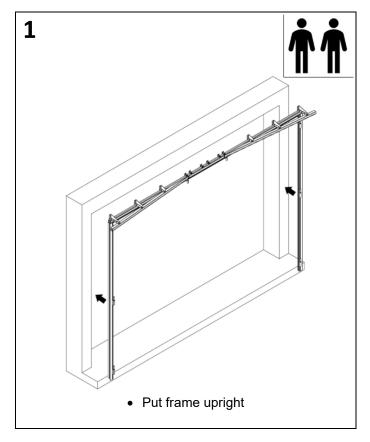


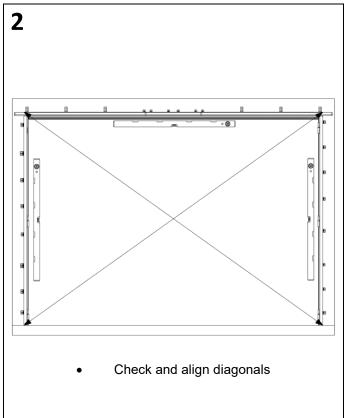


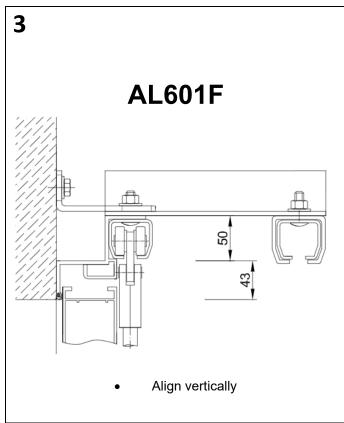


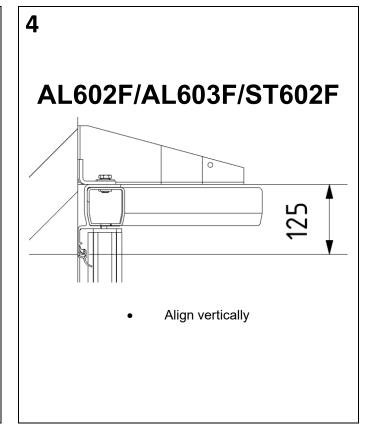


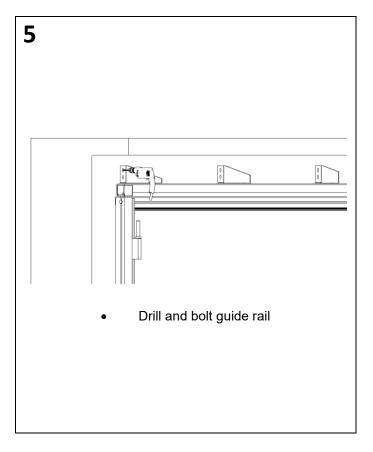
4.2.2 VDL/HDL bracket installation frame / LS 180°

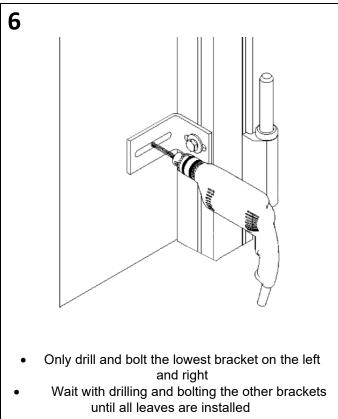




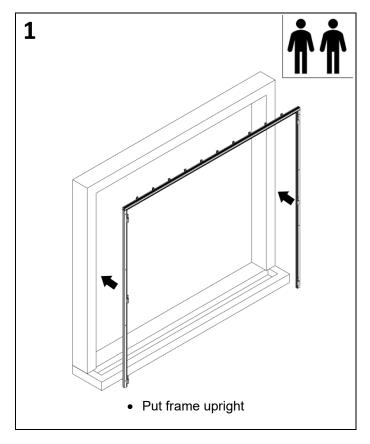


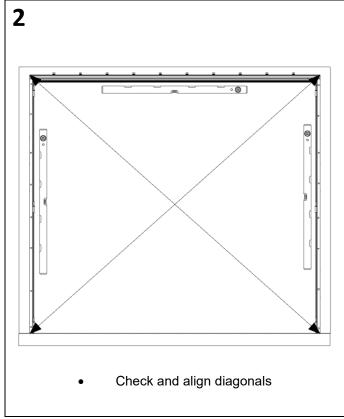


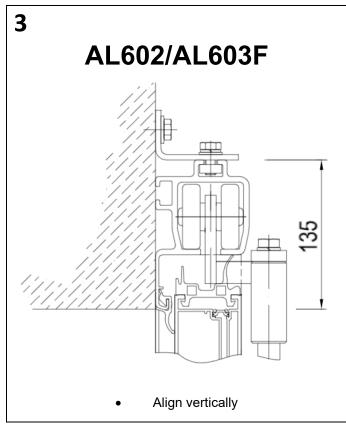


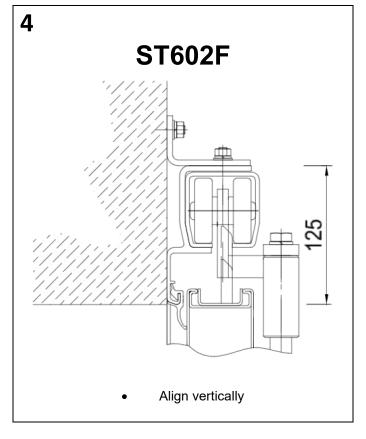


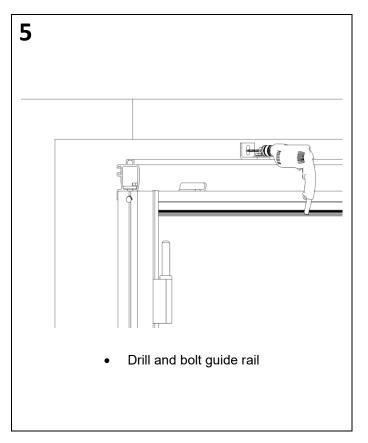
4.2.3 VDL/HDL installation through frame / LS 90°

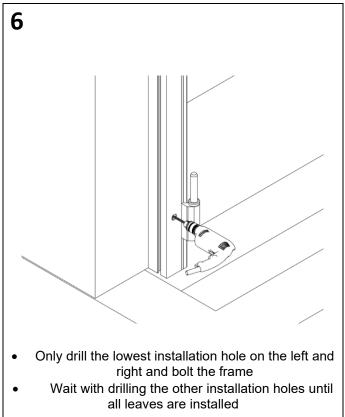


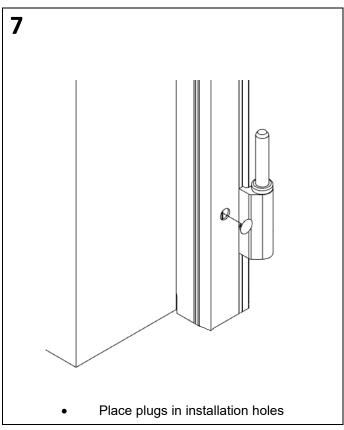




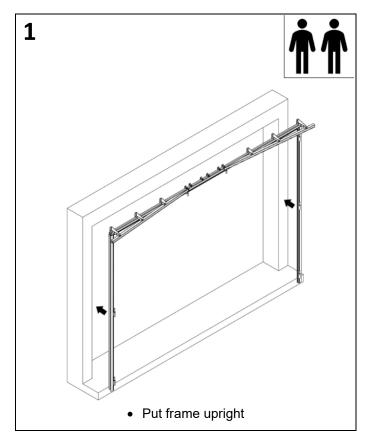


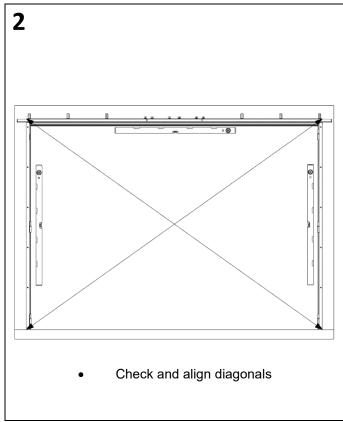


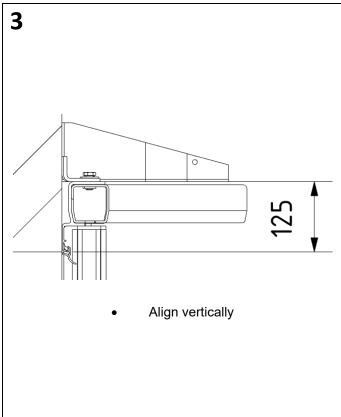


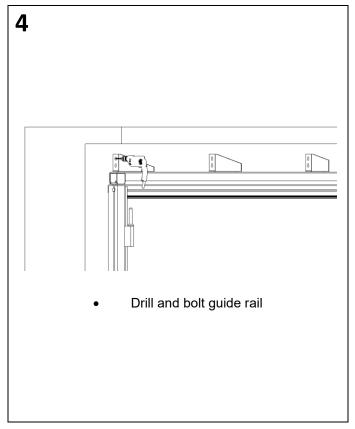


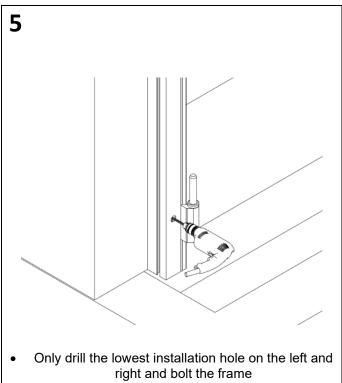
4.2.4 VDL/HDL installation through frame / LS 180°

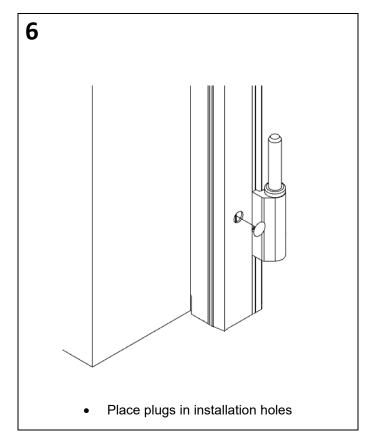








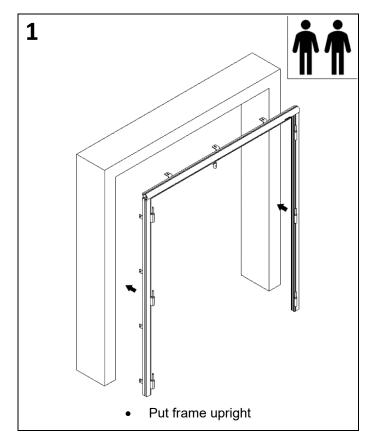


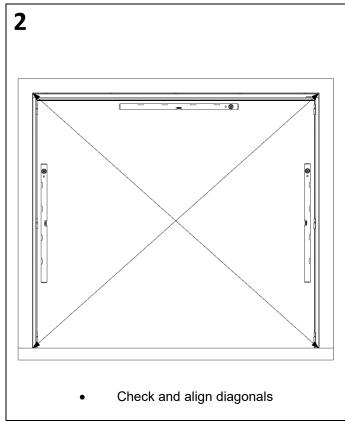


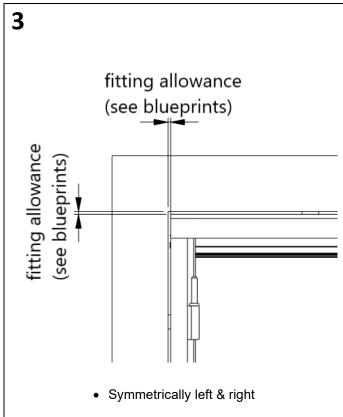
- Wait with drilling the other installation holes until all leaves are installed

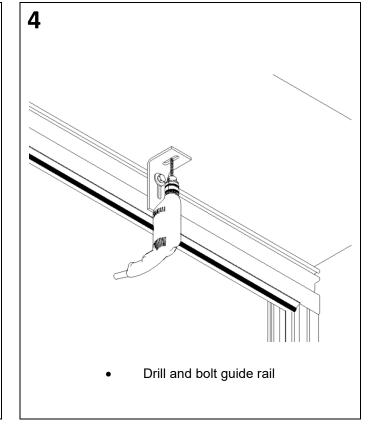
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4.2.5 IDL bracket installation frame / bracket LS 90° locally

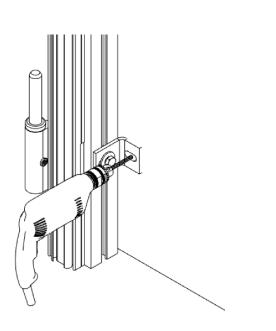








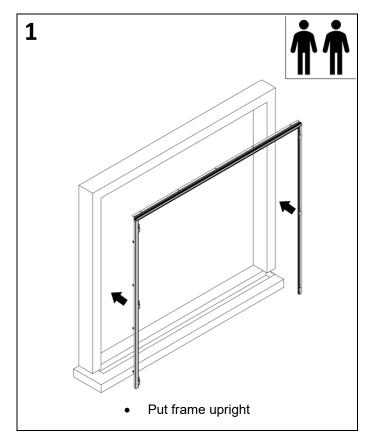
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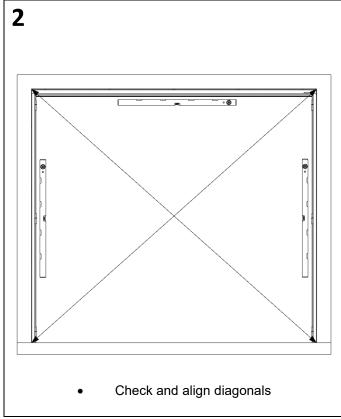


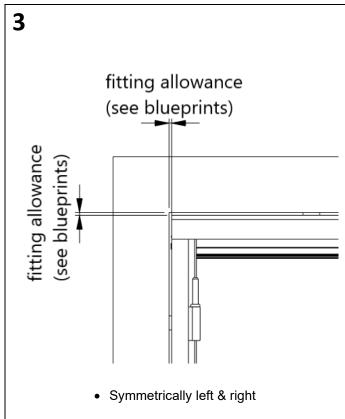
- Only drill and bolt the lowest bracket on the left and right Wait with drilling and bolting the other brackets un-til all leaves are installed

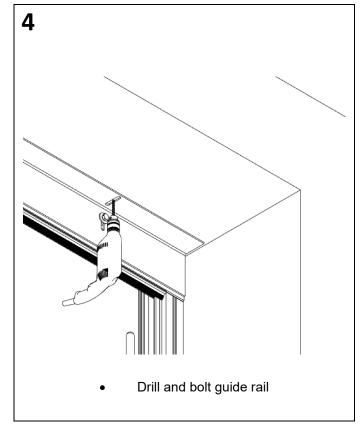
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4.2.6 IDL bracket installation frame / bracket LS 90° end-to-end

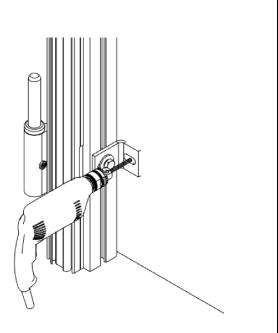








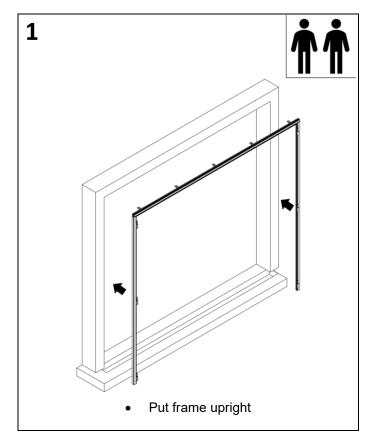
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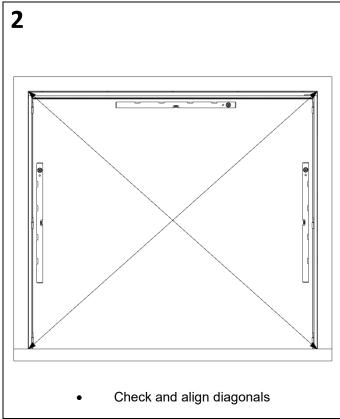


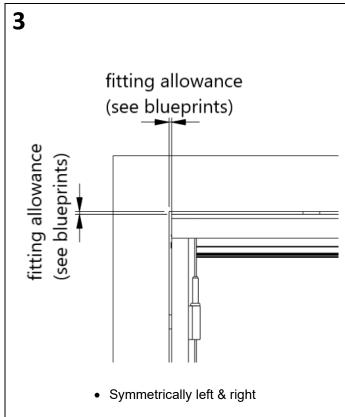
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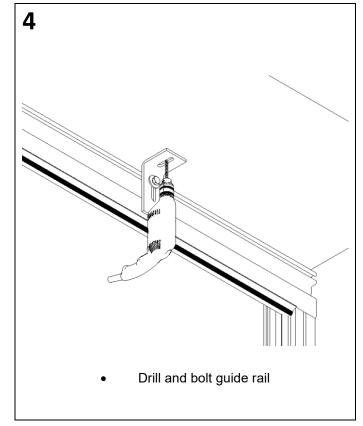
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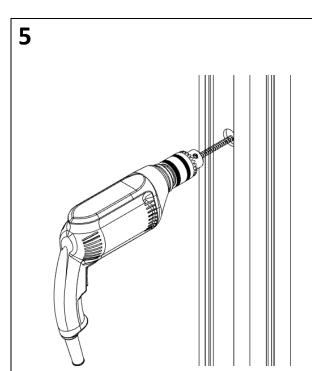
4.2.7 IDL installation through frame / bracket LS 90° locally





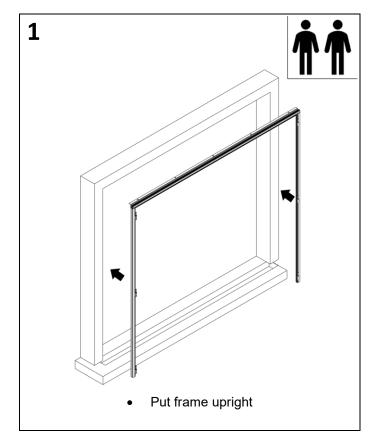


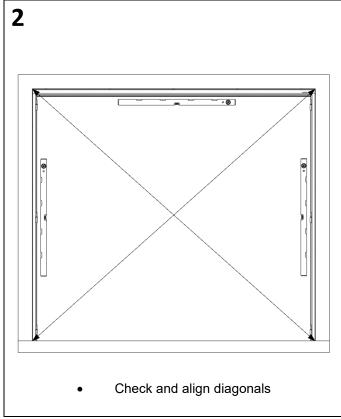


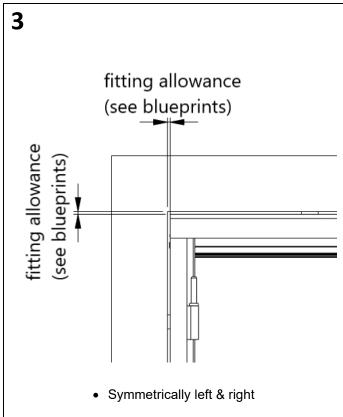


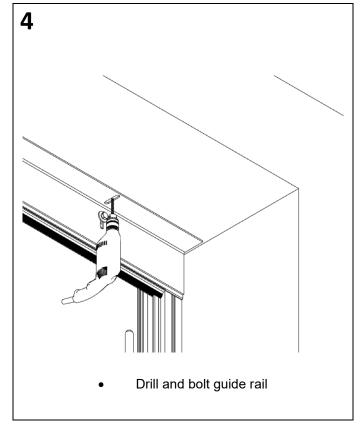
- Only drill the lowest installation hole on the left and right and bolt the frame
- Wait with drilling the other installation holes until all leaves are installed

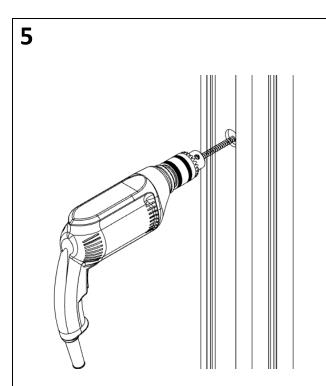
4.2.8 IDL installation through frame / bracket LS 90° end-to-end





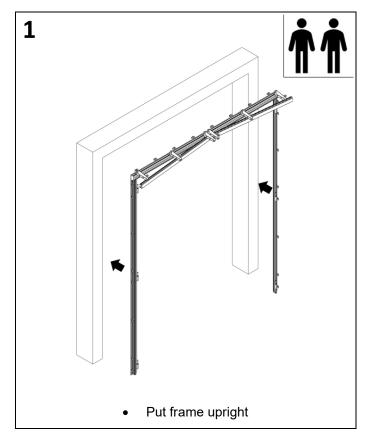


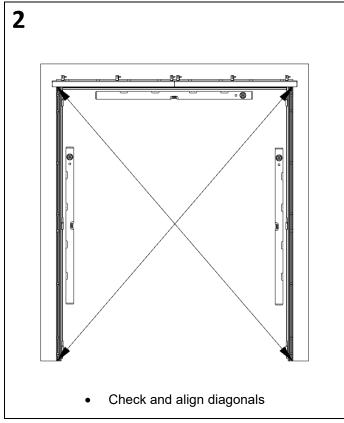


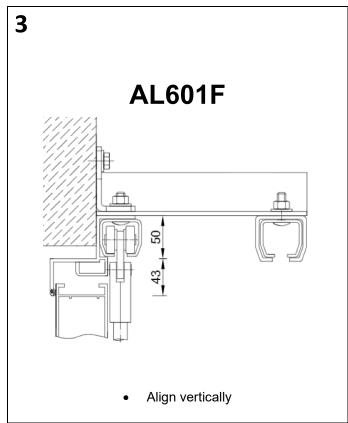


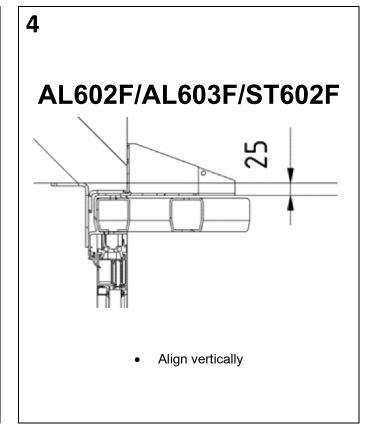
- Only drill the lowest installation hole on the left and right and bolt the frame
- Wait with drilling the other installation holes until all leaves are installed

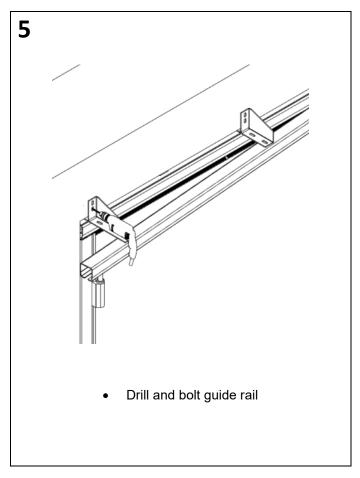
4.2.9 IDL bracket installation frame / guide rail 180°

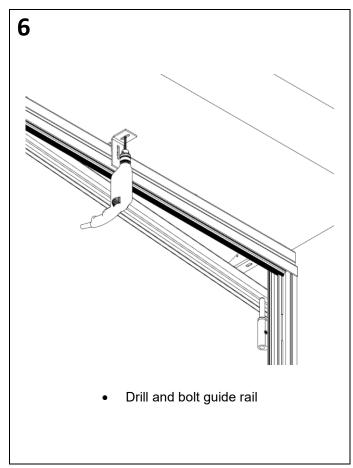


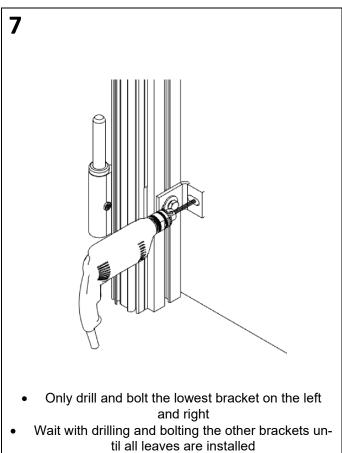




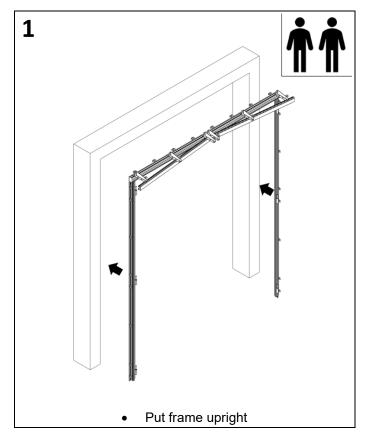


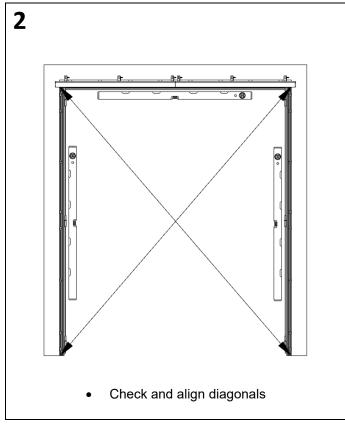


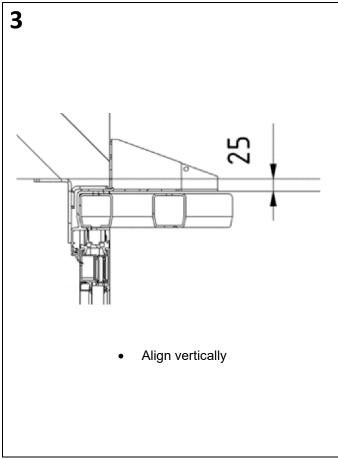


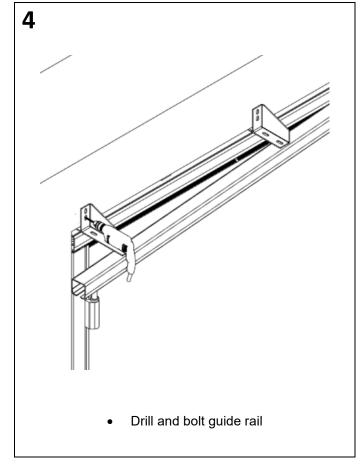


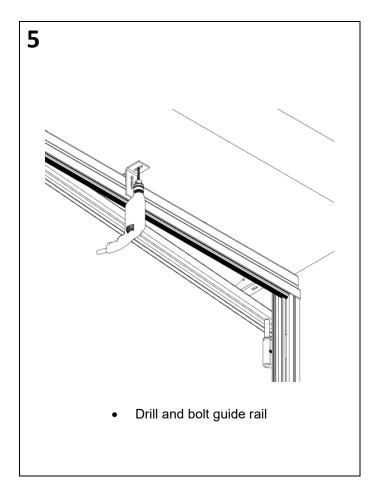
4.2.10 IDL installation through frame / guide rail 180°

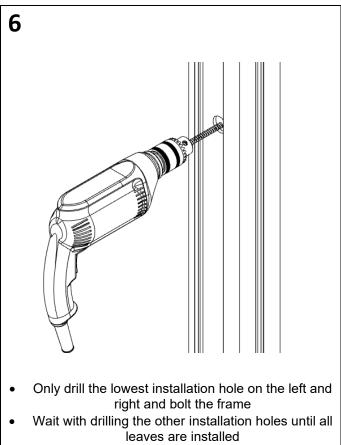




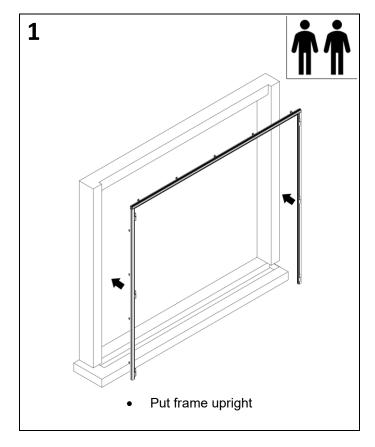


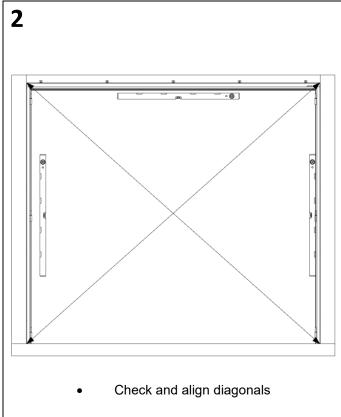


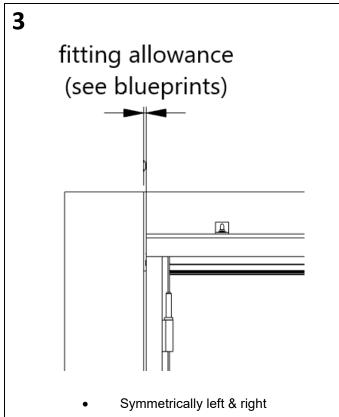


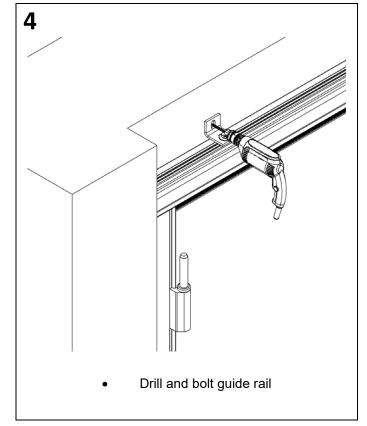


4.2.11 Lintel installation / side installation

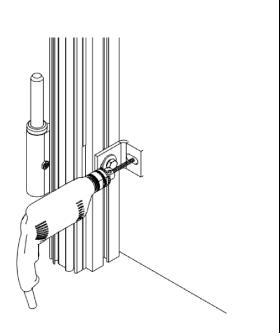








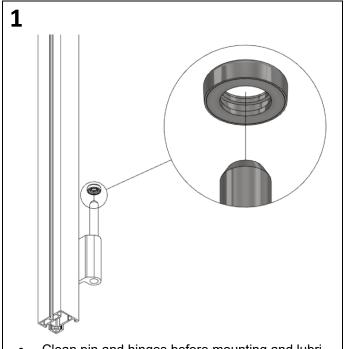
5



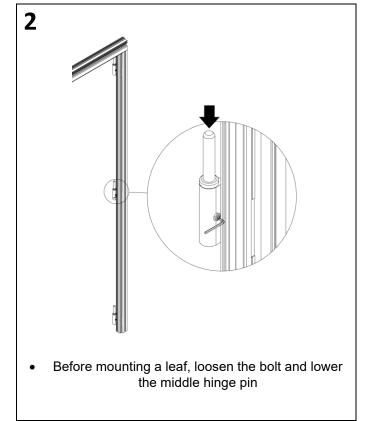
- Only drill and bolt the lowest bracket on the left and right
- Wait with drilling and bolting the other brackets until all leaves are installed

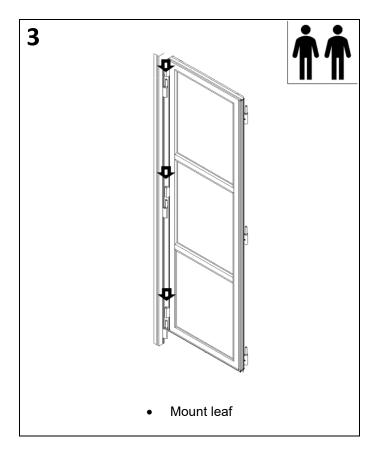
4.3 Door leaf installation

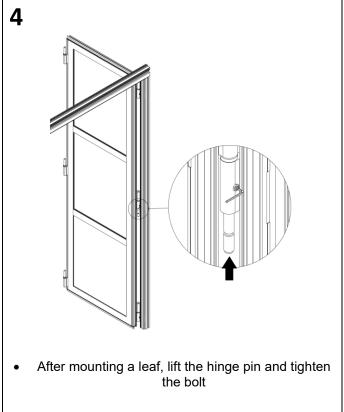
4.3.1 Even number of leaves

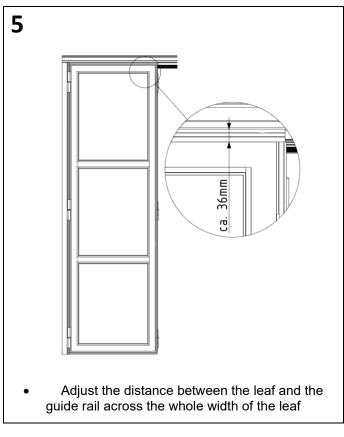


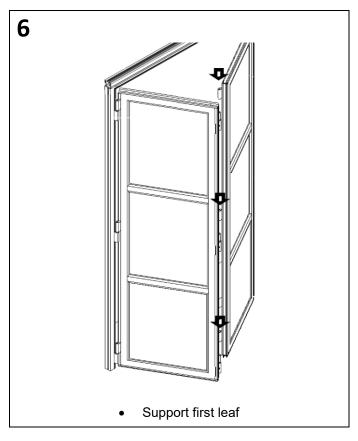
- Clean pin and hinges before mounting and lubricate pin using multi-purpose grease
 - Install thrust bearing as specified



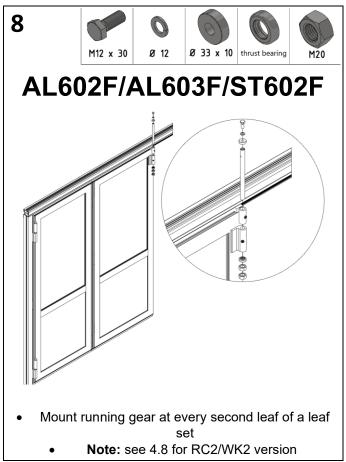


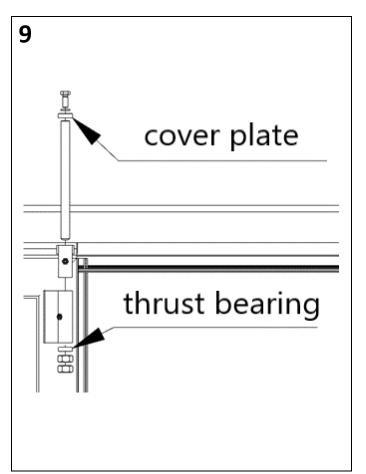


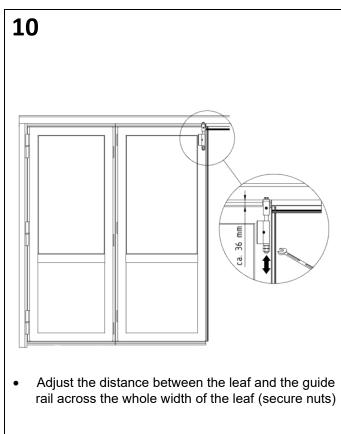


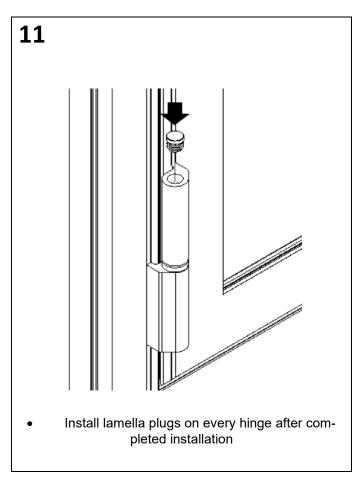


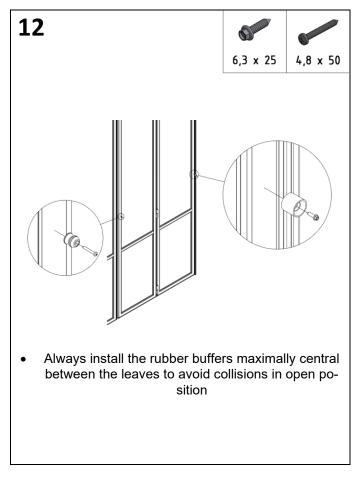


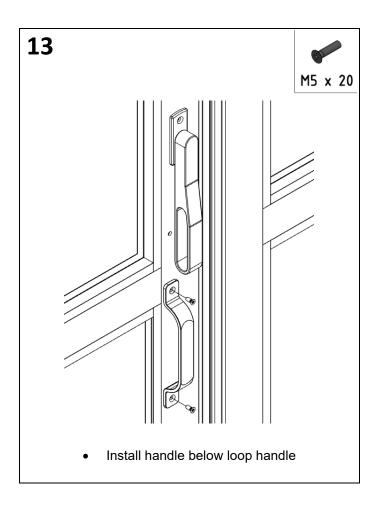




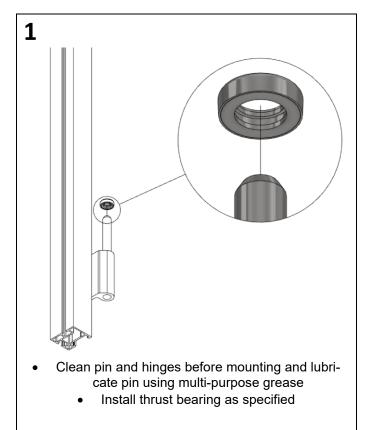


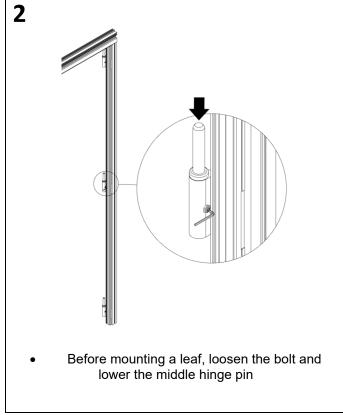


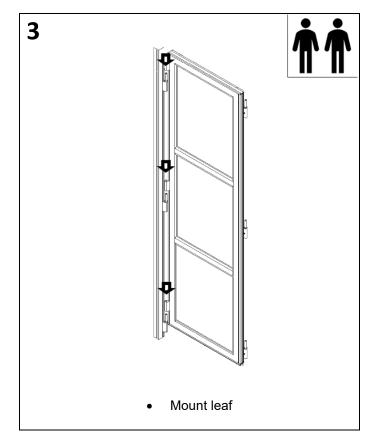


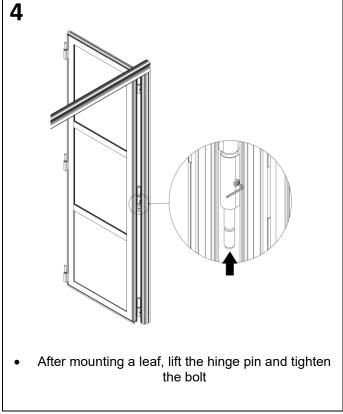


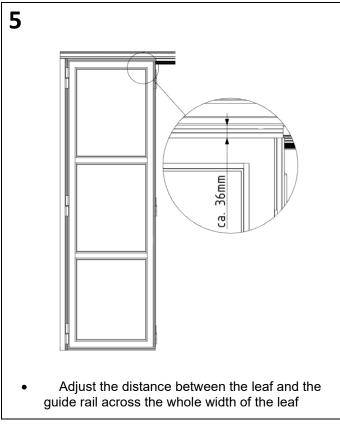
4.3.2 Uneven number of leaves

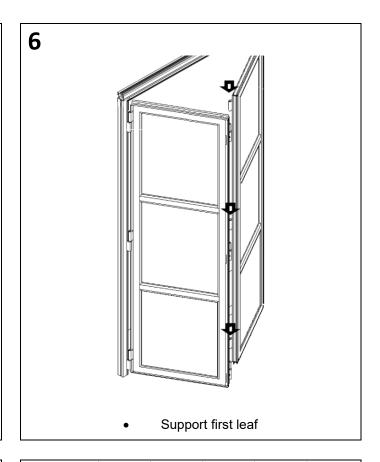


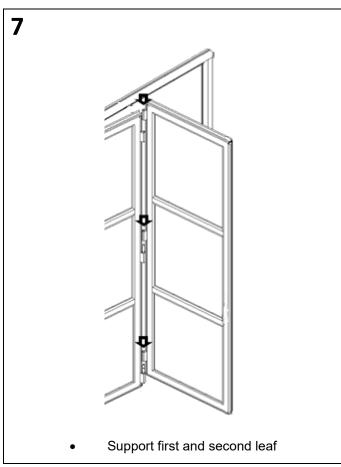


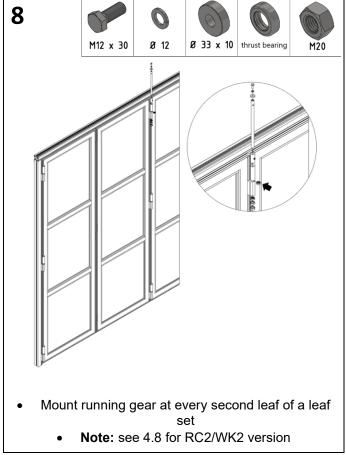


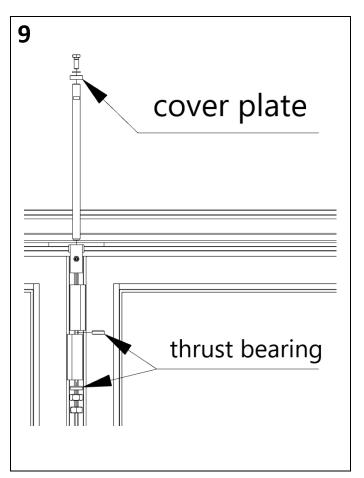


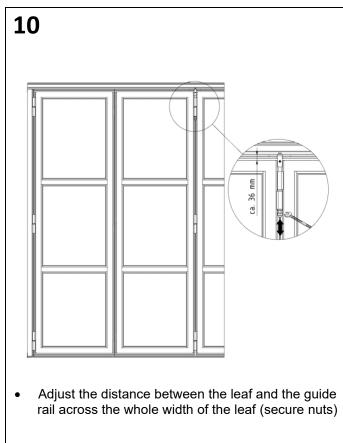


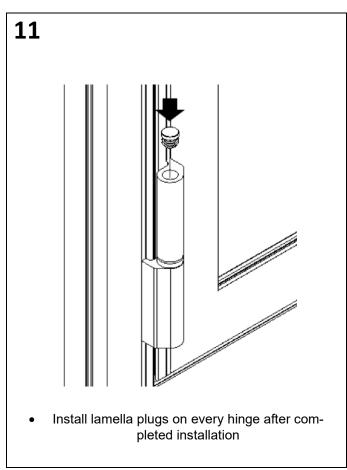




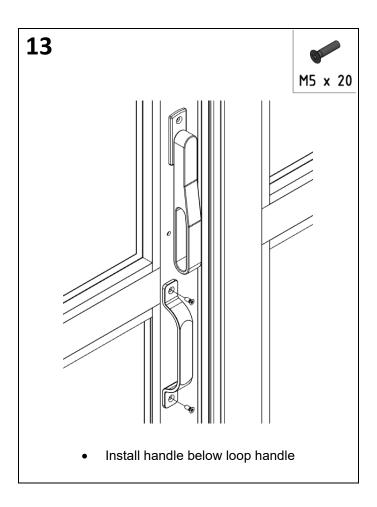




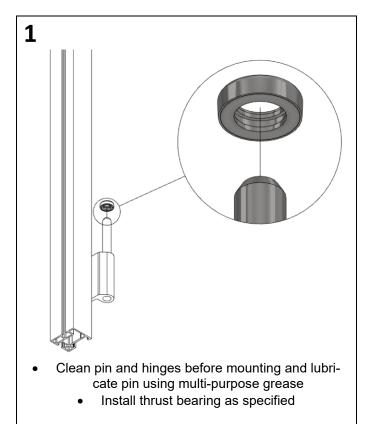


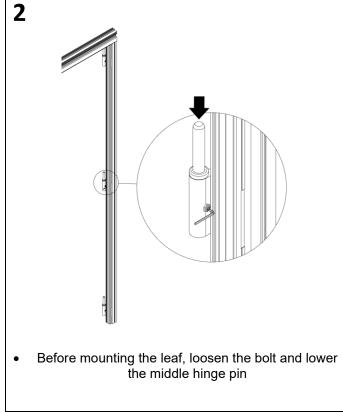


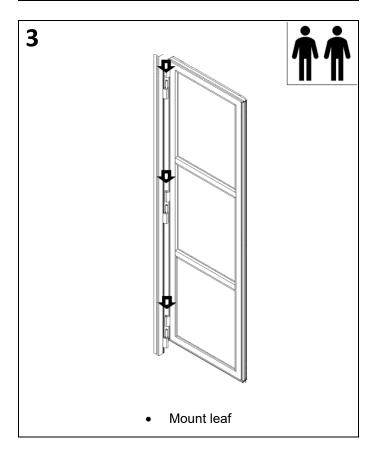


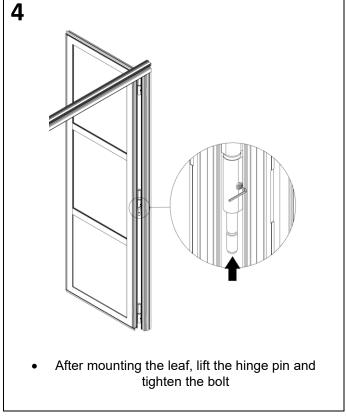


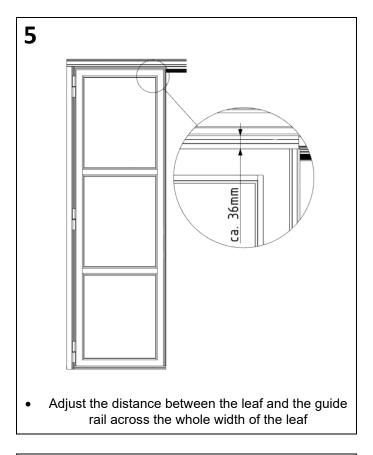
4.3.3 Door hinge installation for individual leaves

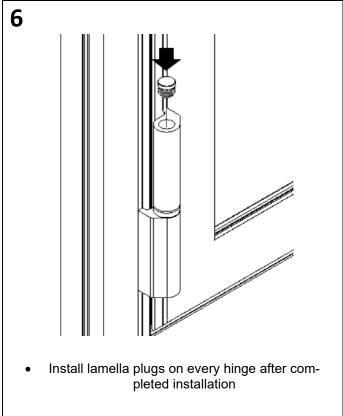


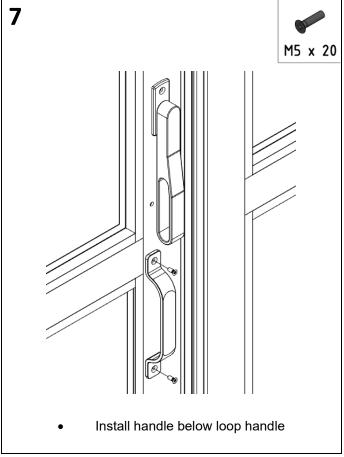




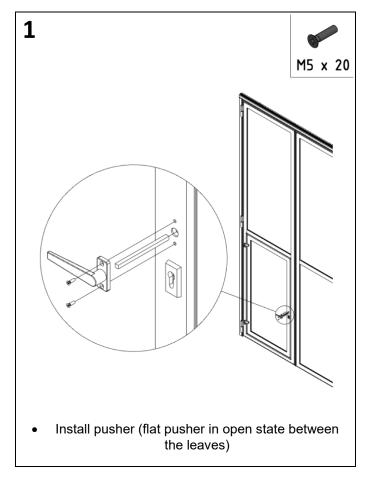


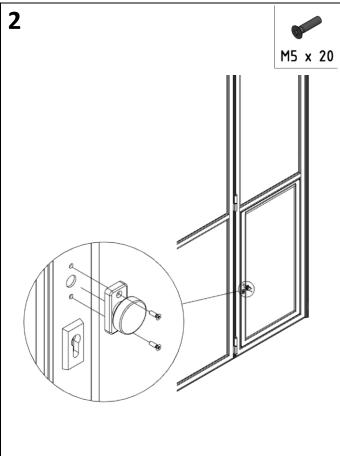






4.3.4 Active leaf/walk-through door pusher/door knob

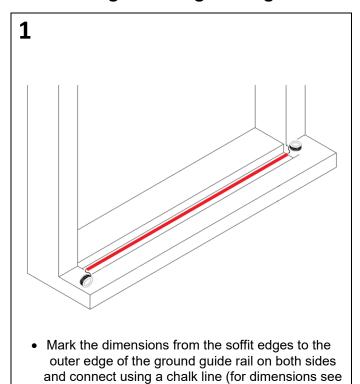




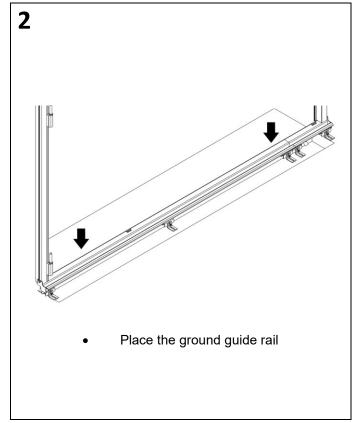
Note: see 4.8 for RC2/WK2 version

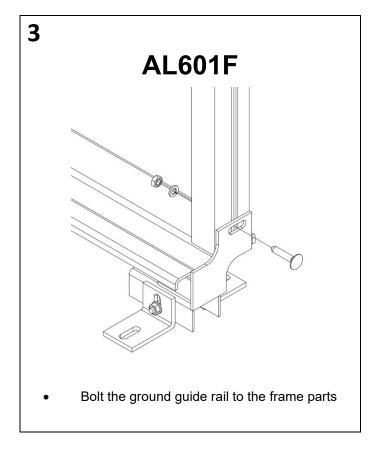
4.4 Ground guide rails

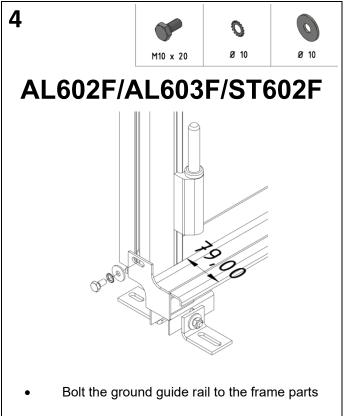
4.4.1 BF-light NIRO ground guide

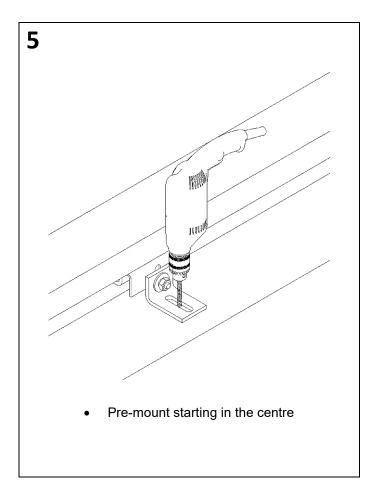


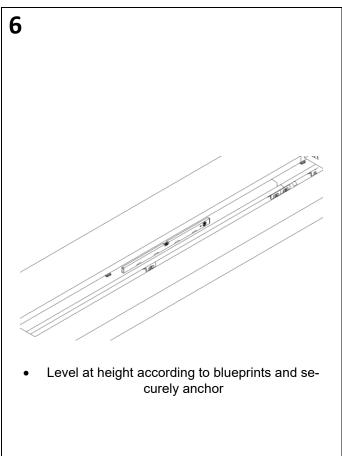
blueprints)





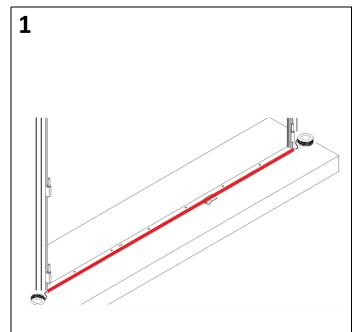




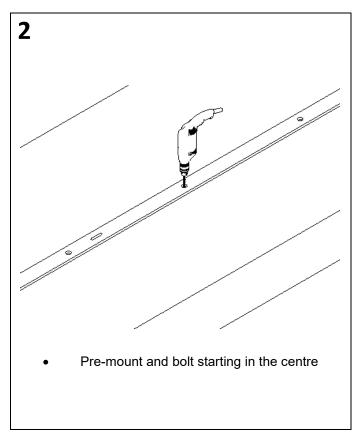


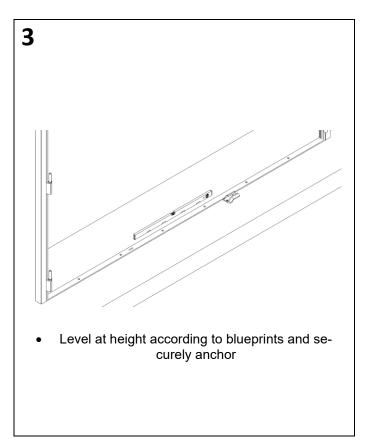
Note: see 4.8 for RC2/WK2 version

4.4.2 20D threshold / 10D threshold



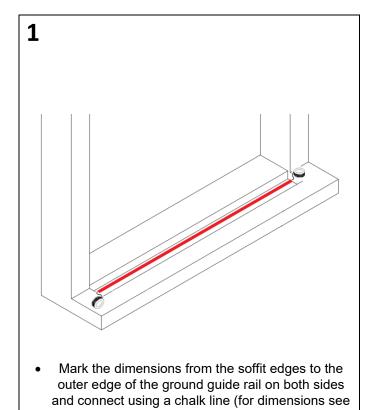
 Mark the dimensions from the soffit edges to the outer edge of the ground guide rail on both sides and connect using a chalk line (for dimensions see blueprints)

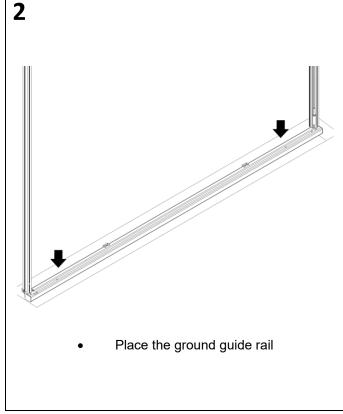


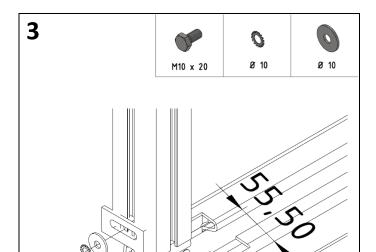


Note: see 4.8 for RC2/WK2 version

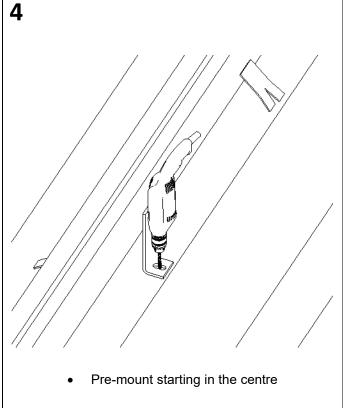
4.4.3 BF ground guide



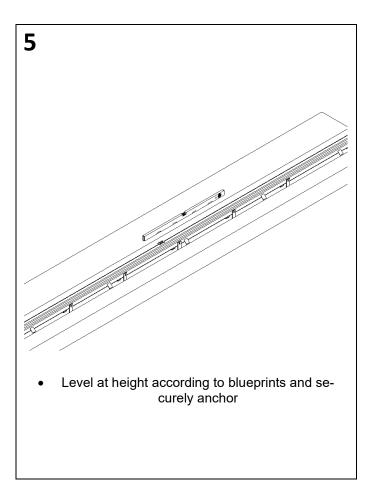




blueprints)

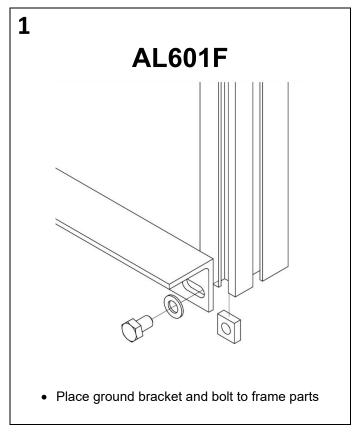


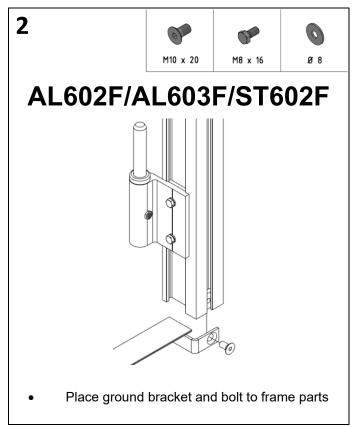
Bolt the ground guide rail to the frame parts

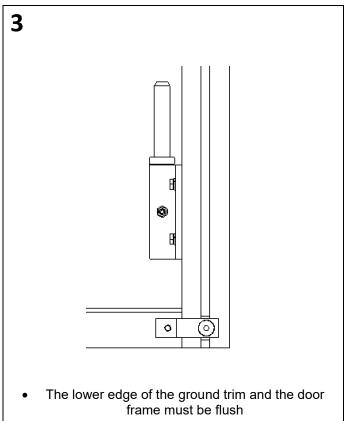


Note: see 4.8 for RC2/WK2 version

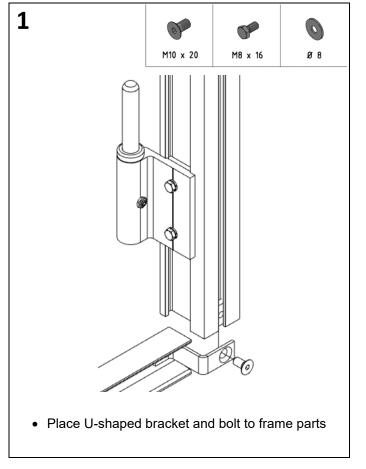
4.4.4 L50D threshold

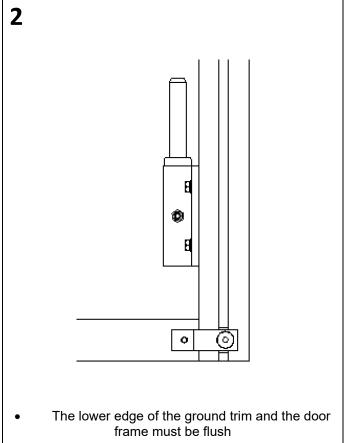




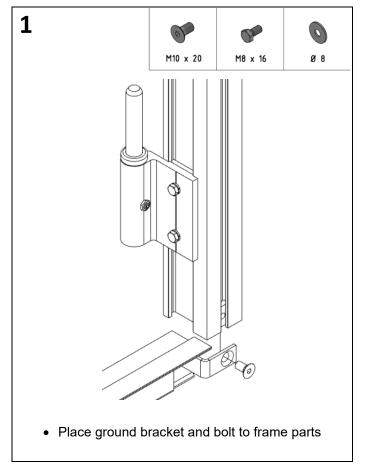


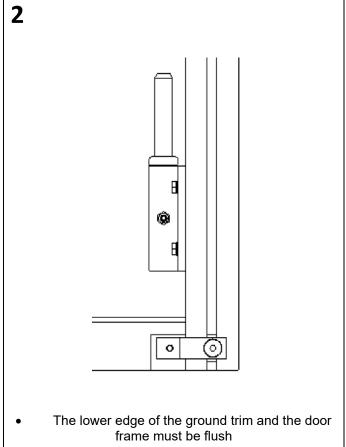
4.4.5 U50D threshold



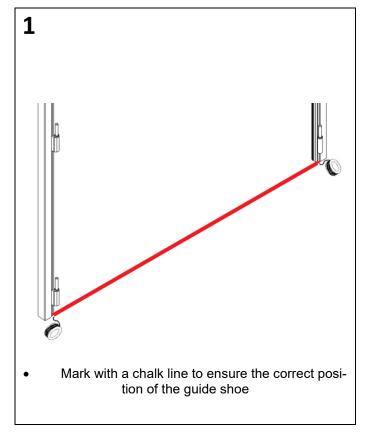


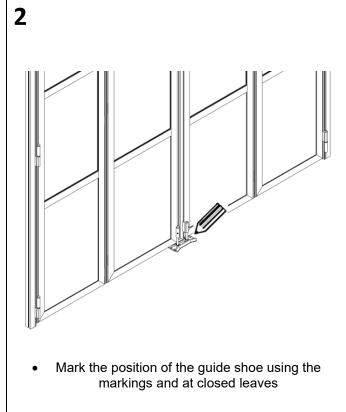
4.4.6 DA threshold

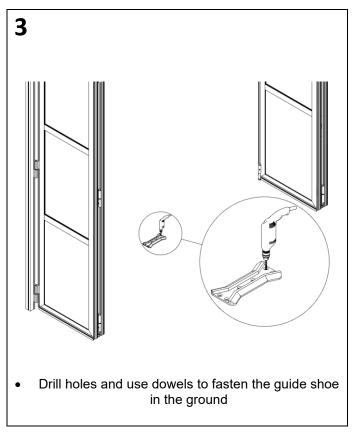


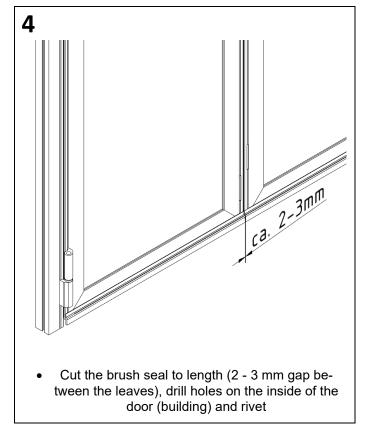


4.4.7 No threshold

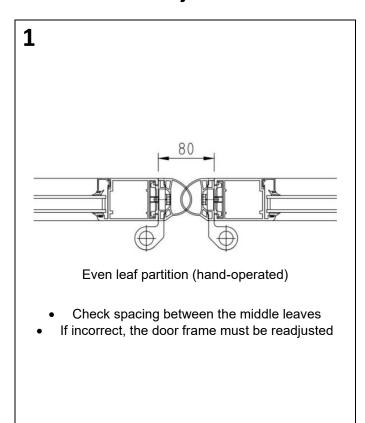


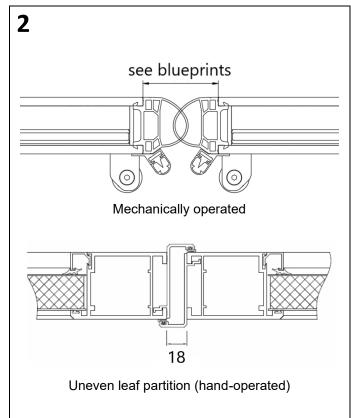


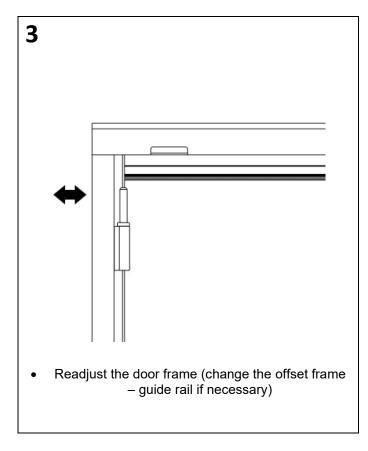


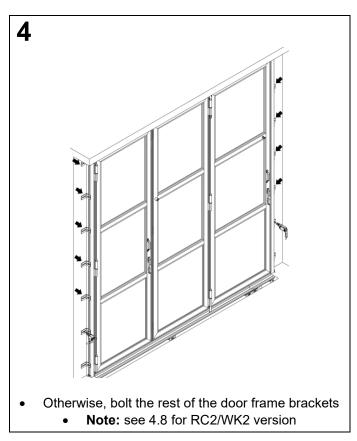


4.5 Frame fine adjustment



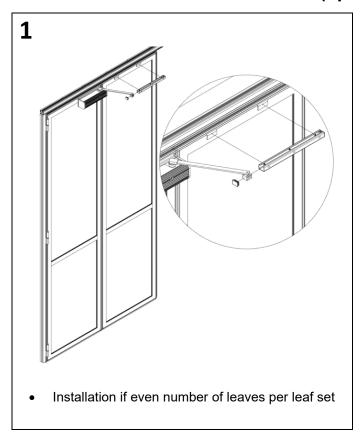




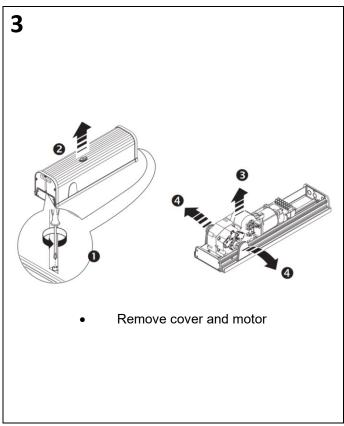


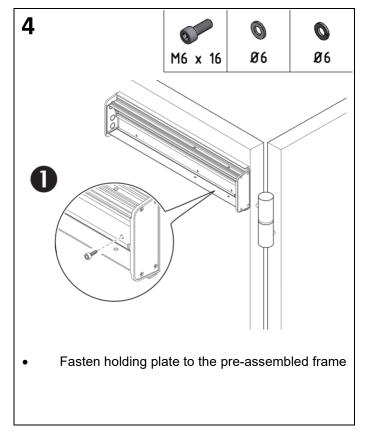
4.6 Drive system installation

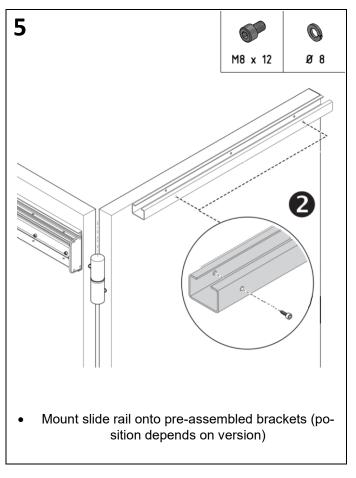
4.6.1 BASIC drive on the first leaf (opening inwards)

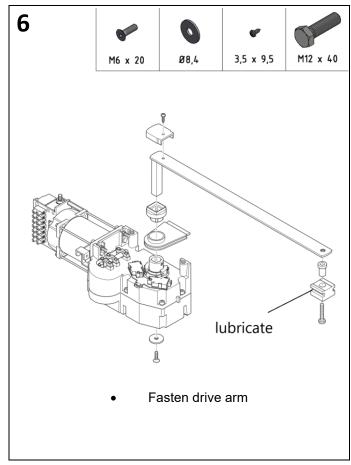


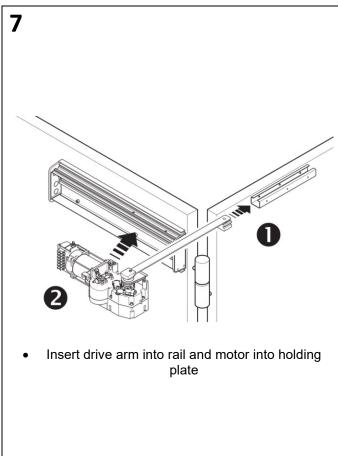


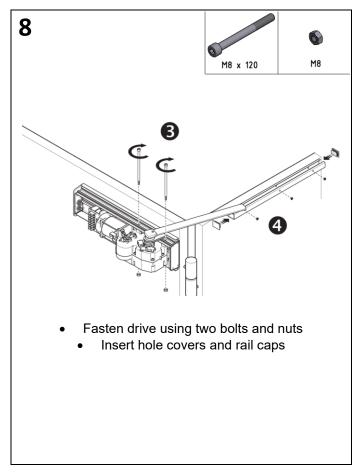


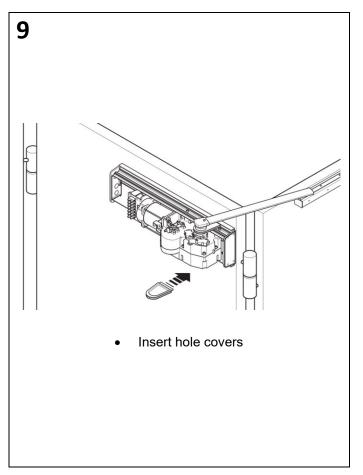


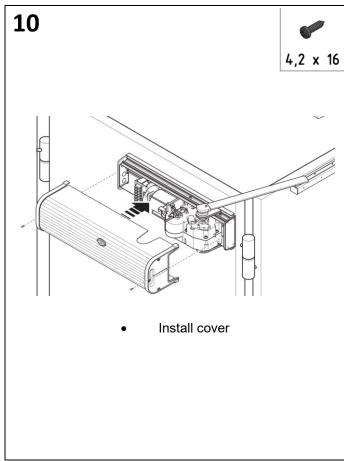


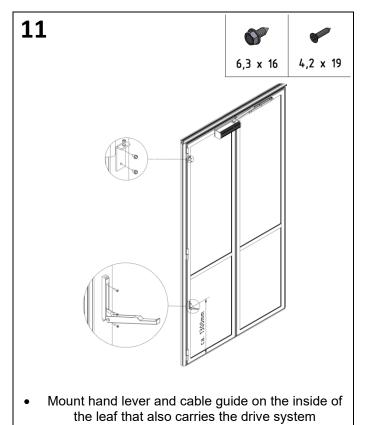




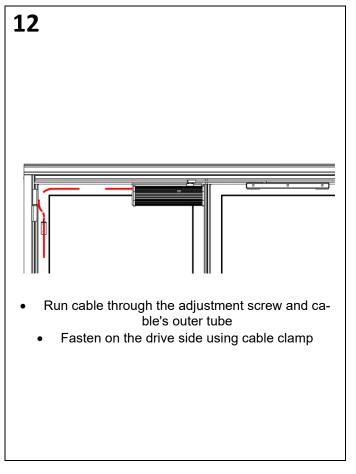




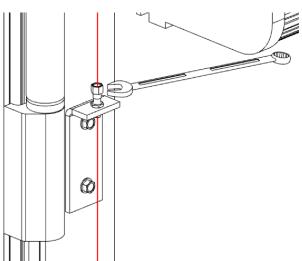




Note: see 4.8 for RC2/WK2 version

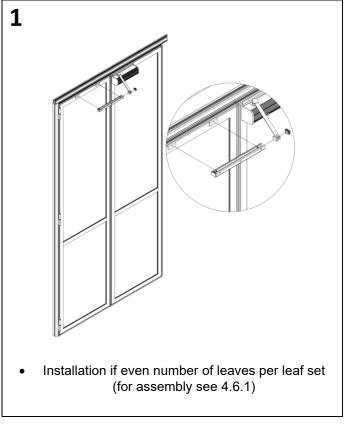


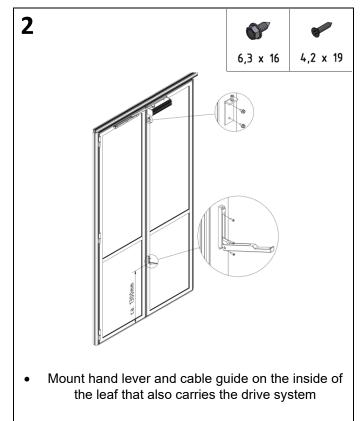


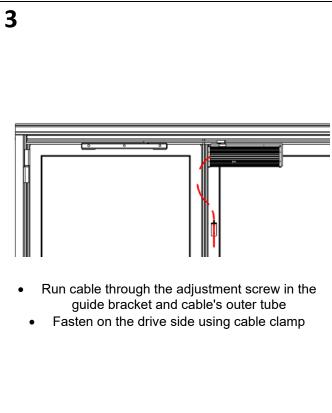


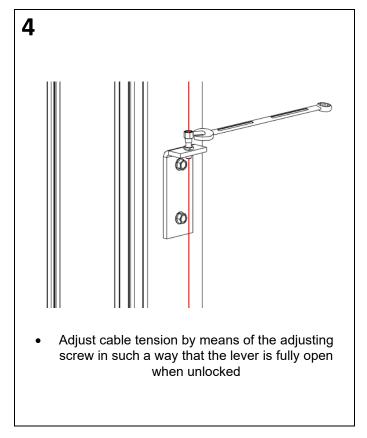
 Adjust cable tension by means of the adjusting screw in such a way that the lever is fully open when unlocked

4.6.2 BASIC drive on the second leaf (opening inwards)

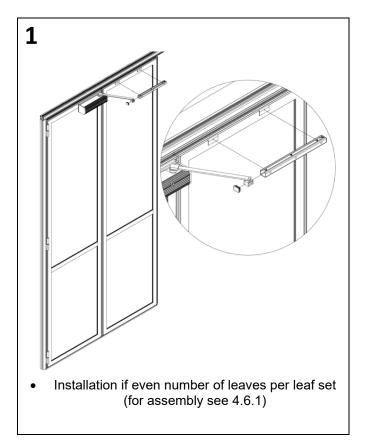


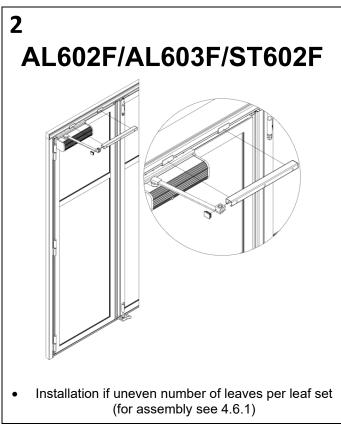


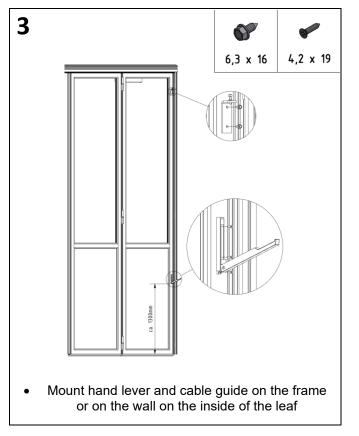


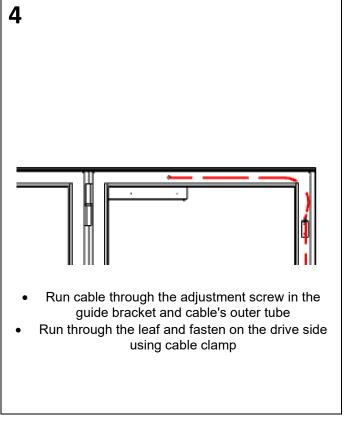


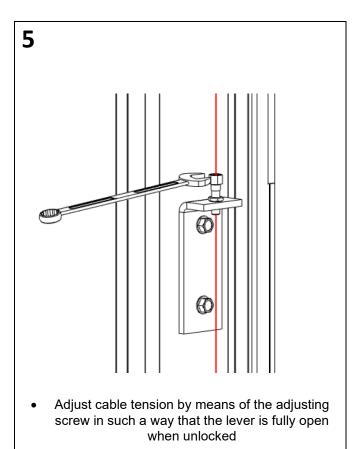
4.6.3 BASIC drive on the first leaf (opening outwards)



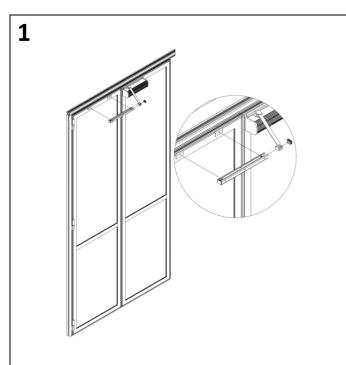




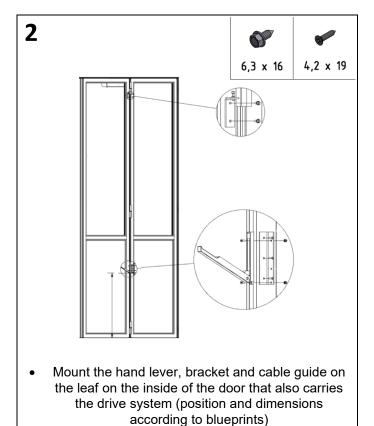


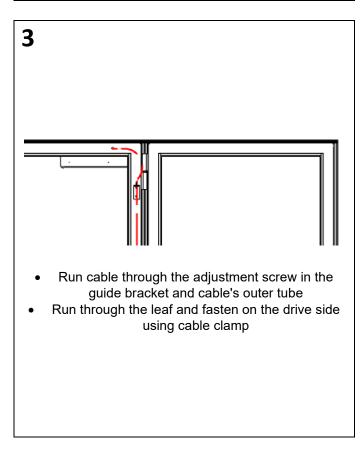


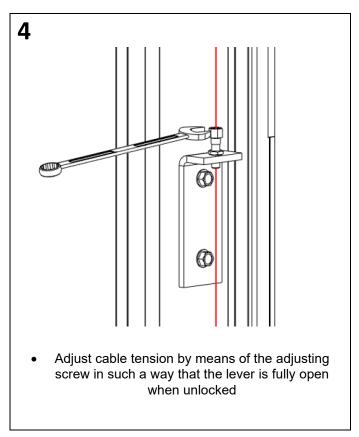
4.6.4 BASIC drive on the second leaf (opening outwards)



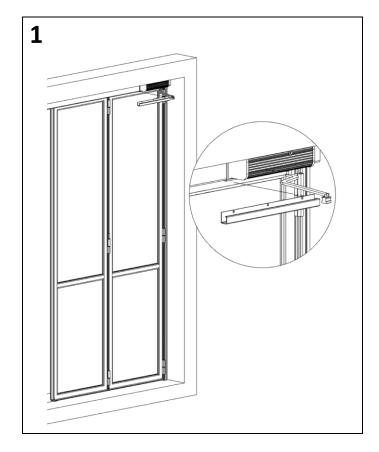
- Installation if even number of leaves per leaf set (for assembly see 4.6.1)
- Mount the hand lever and cable guide for 2 or 4 leaf sets according to 4.9

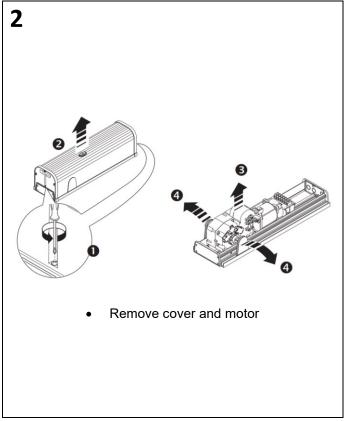


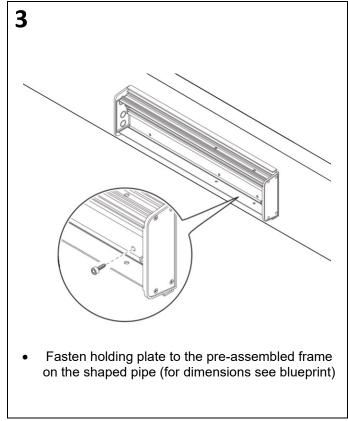


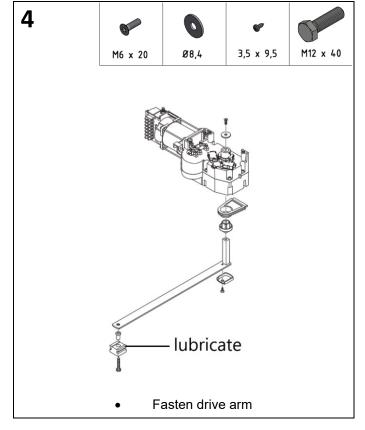


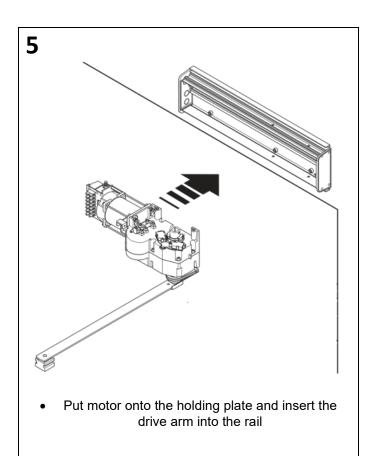
4.6.5 BASIC drive, internal (opening outwards)

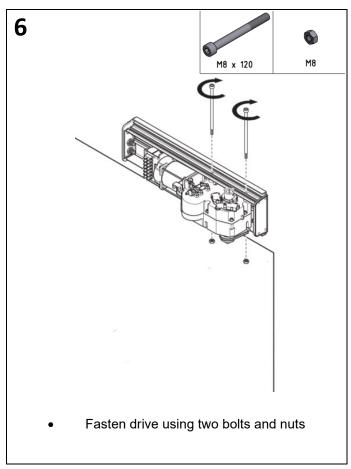


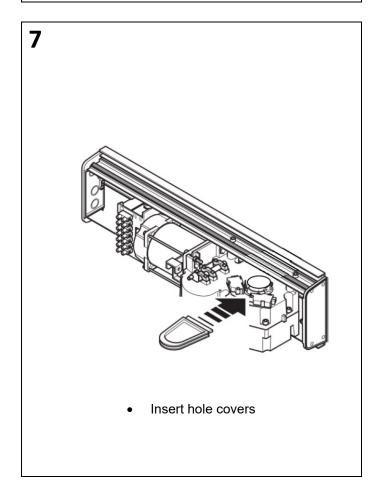


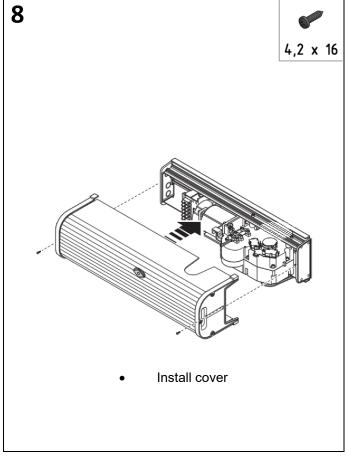


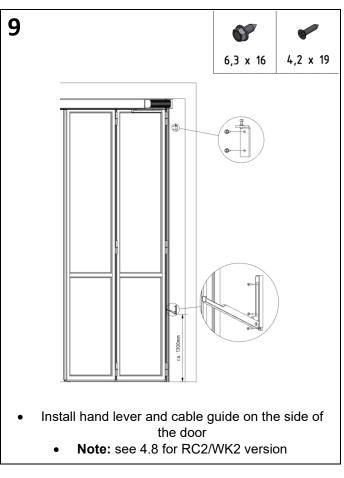


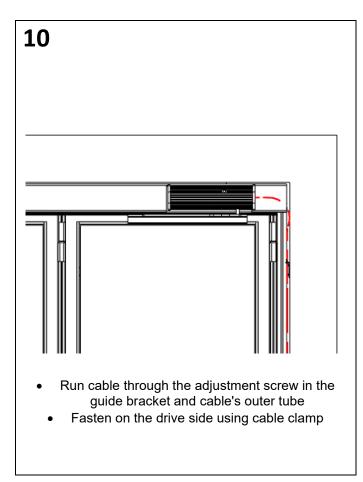


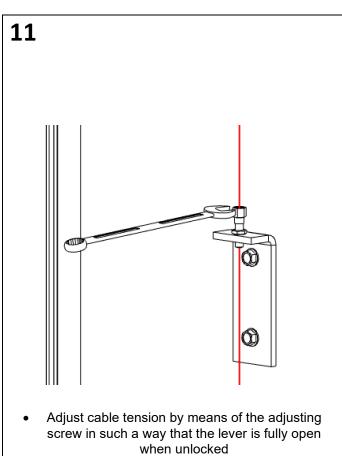




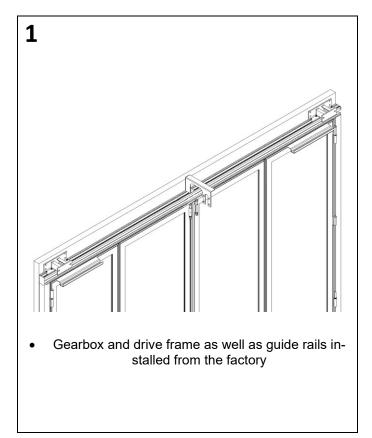


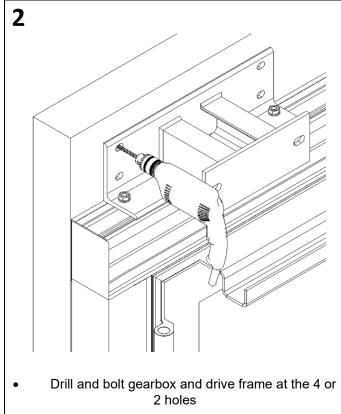


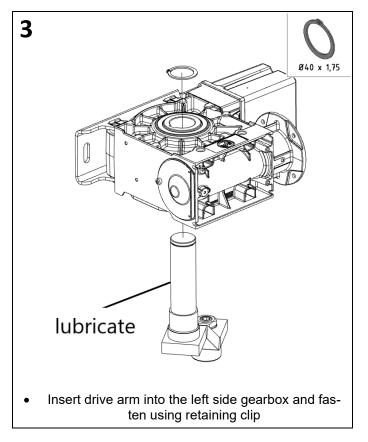


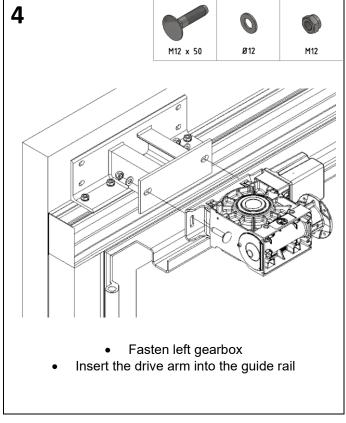


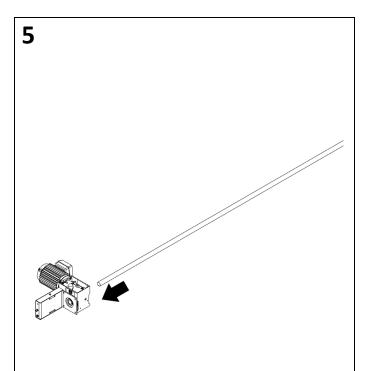
4.6.6 POWER drive



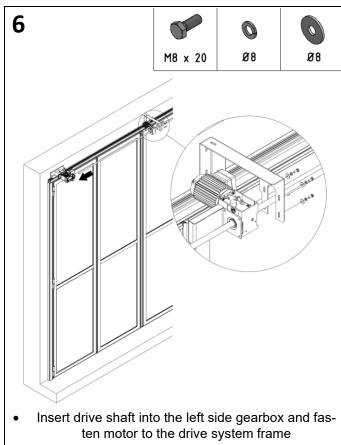


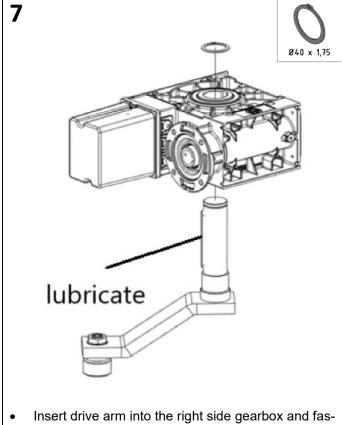




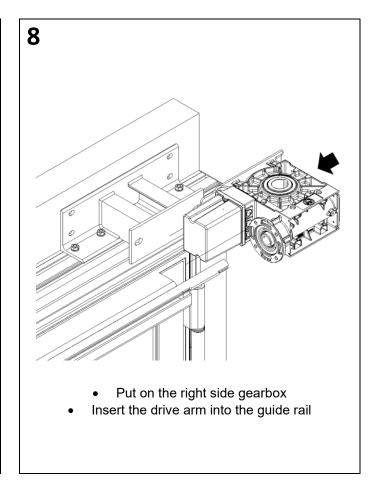


Slide drive shaft through the drive motor with preassembled emergency release frame

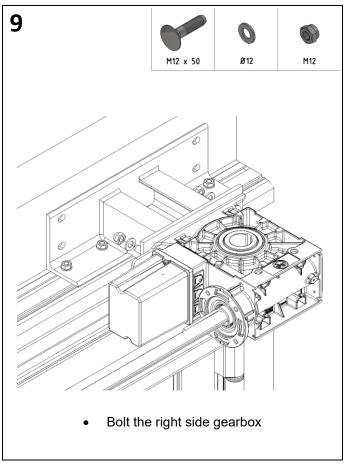


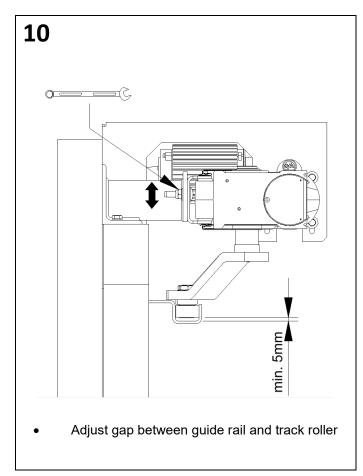


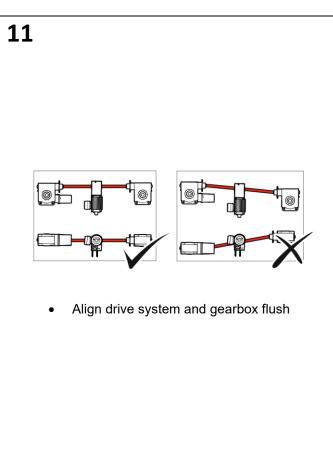
ten using retaining clip and key

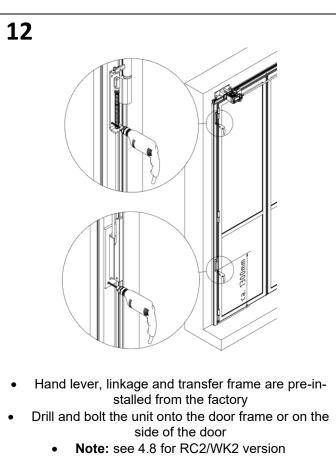


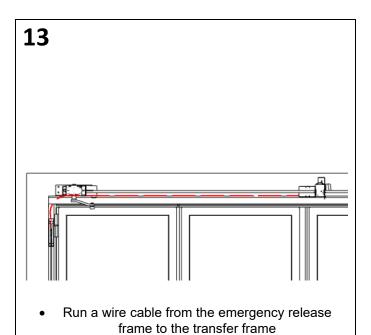
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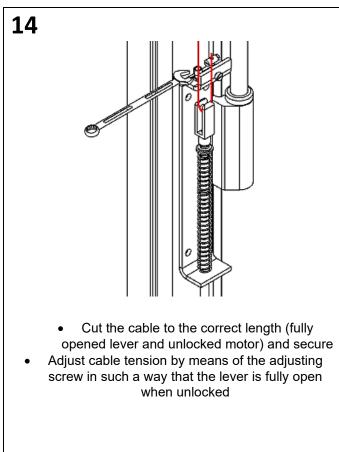


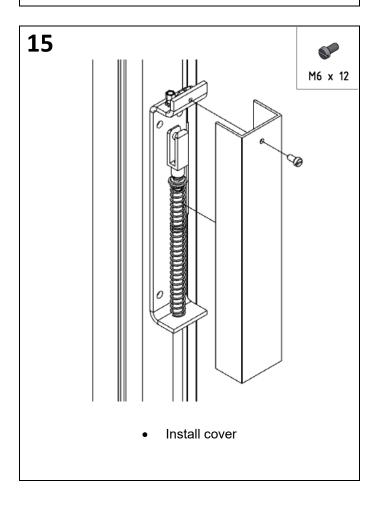




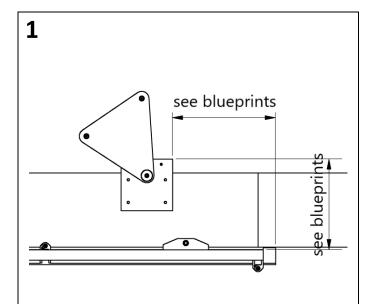




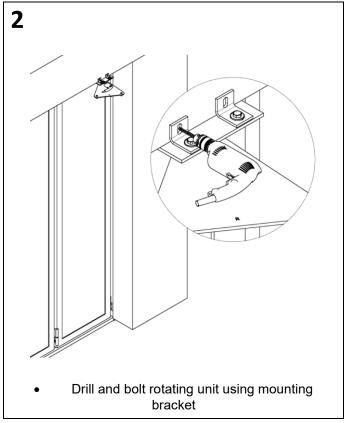


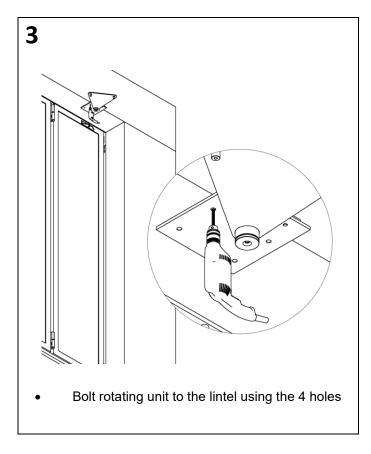


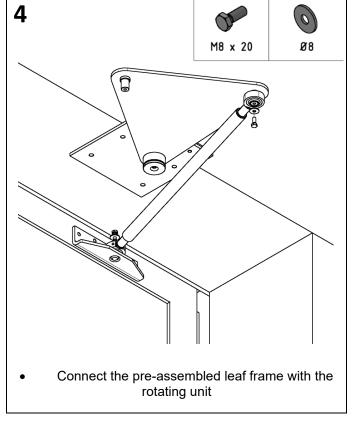
4.6.7 POWER drive, internal (opening outwards)

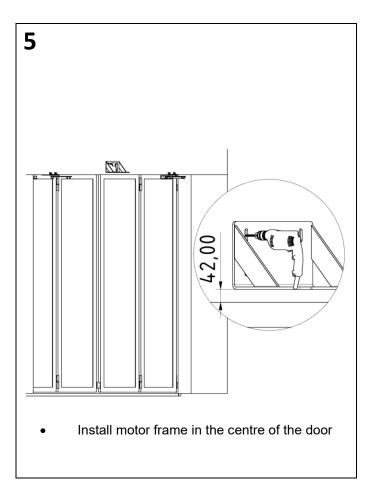


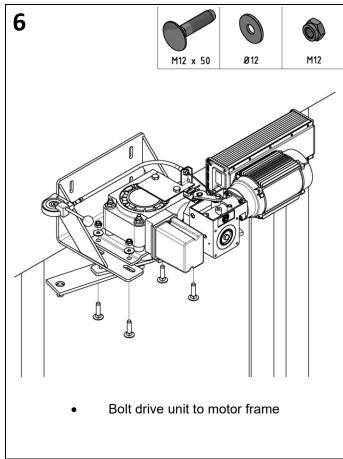
- Fasten rotating unit incl. rotating disc on the masonry according to blueprints
- Important: Note the markings on the left and right (seen from the side of the drive)

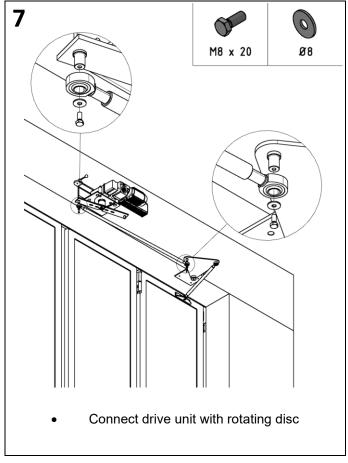


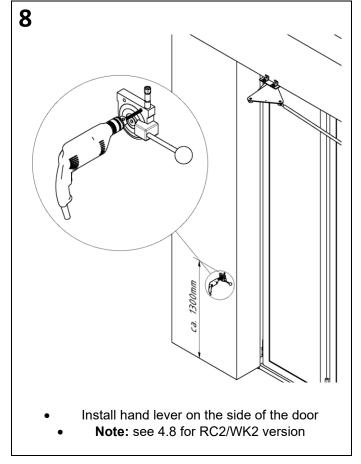


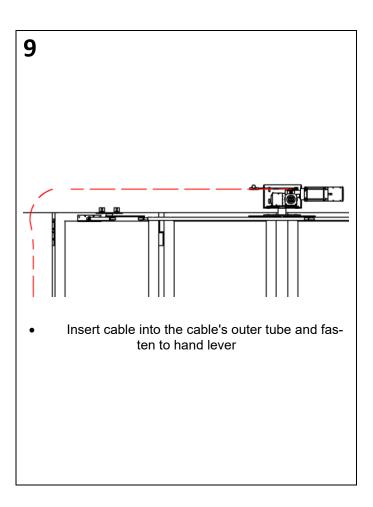




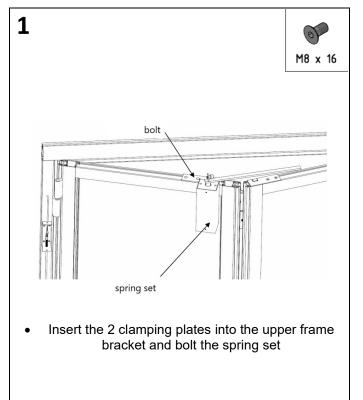


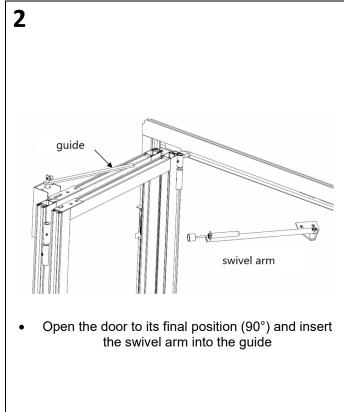


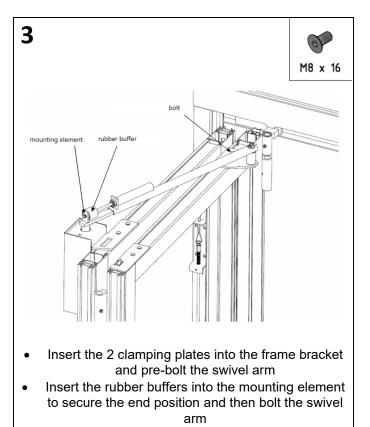


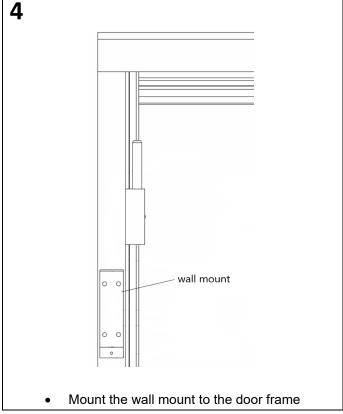


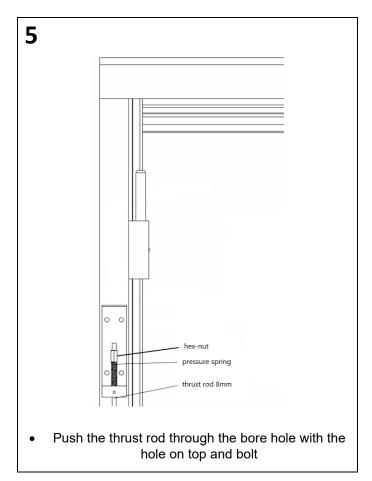
4.6.8 Automatic opening function

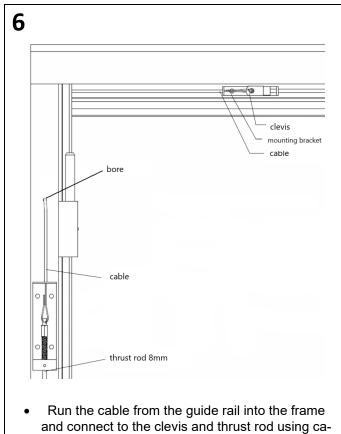




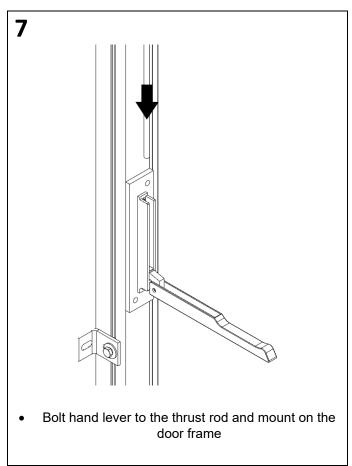


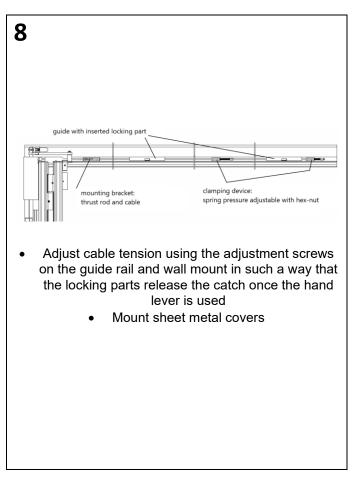


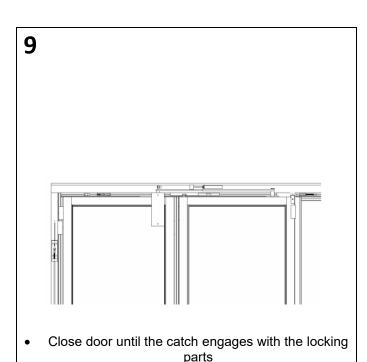


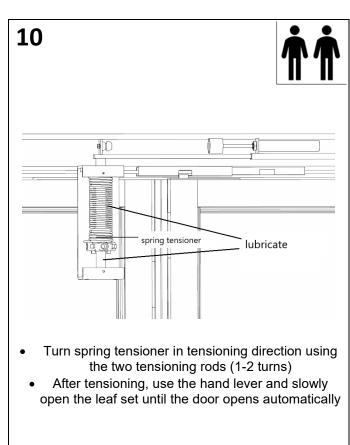


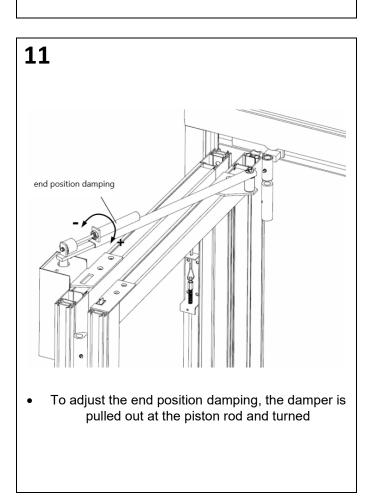
ble clamp





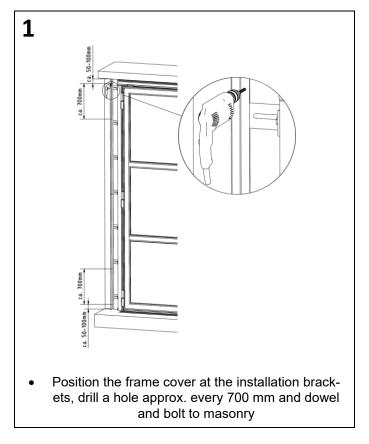


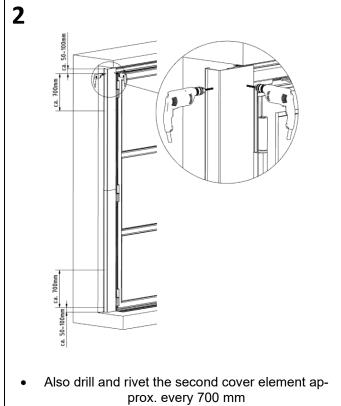




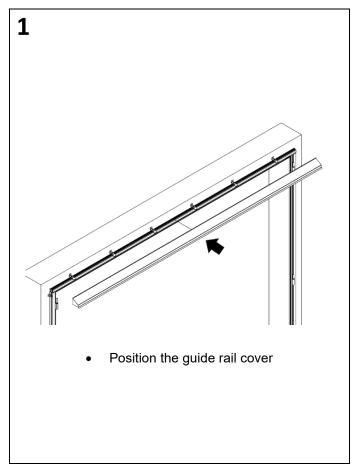
4.7 Sheet metal cover installation

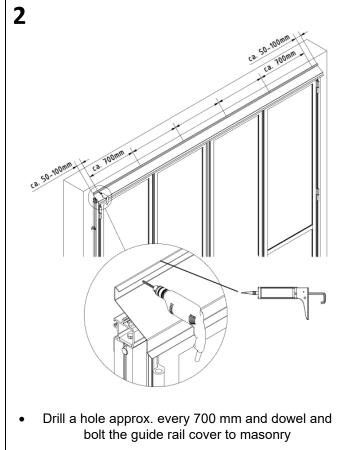
4.7.1 Frame covers



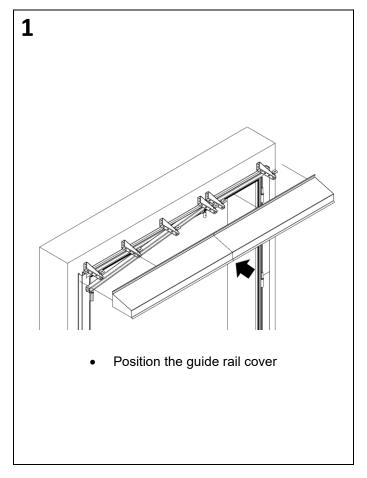


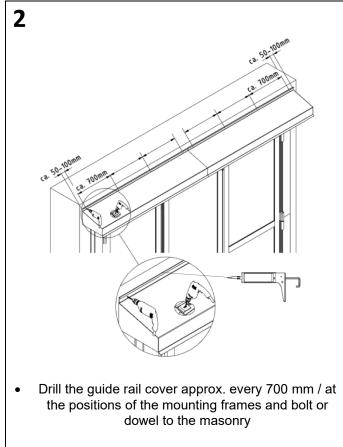
4.7.2 90° guide rail cover



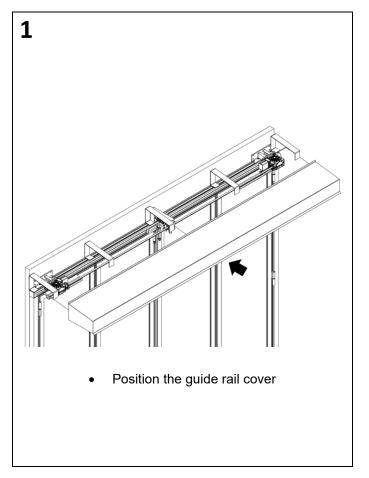


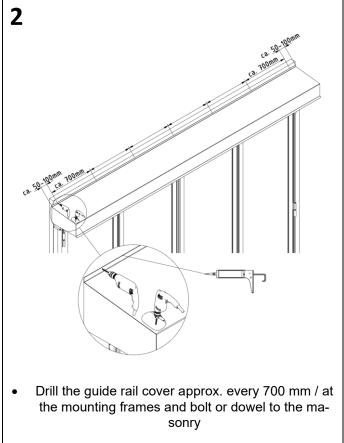
4.7.3 180° guide rail cover



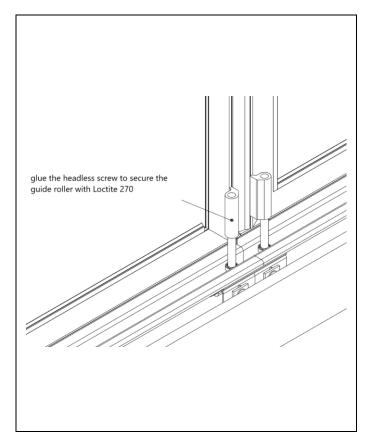


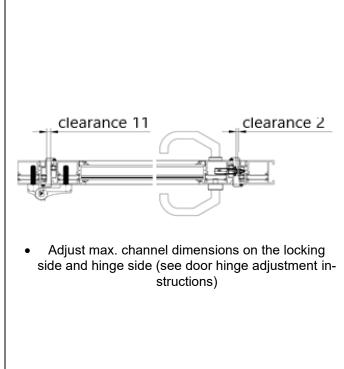
4.7.4 Power drive system guide rail cover

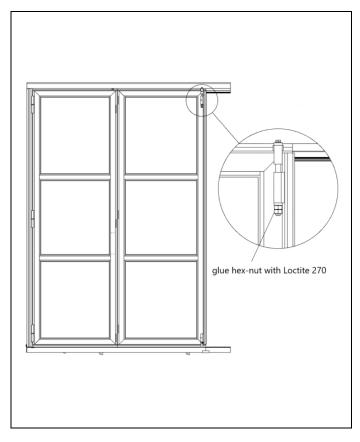


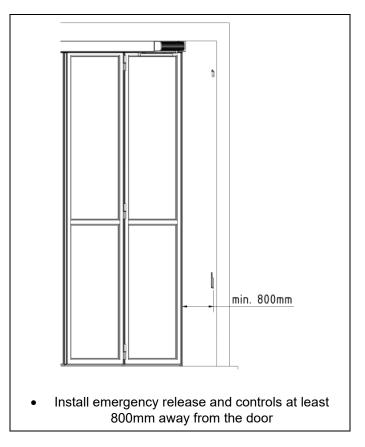


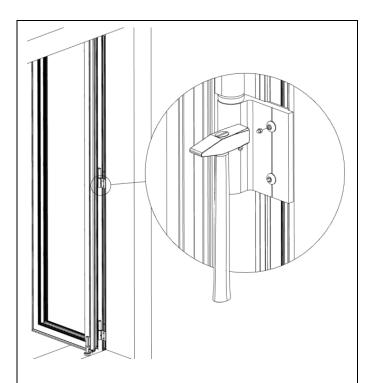
4.8 Additional hinge for RC2/WK2 version





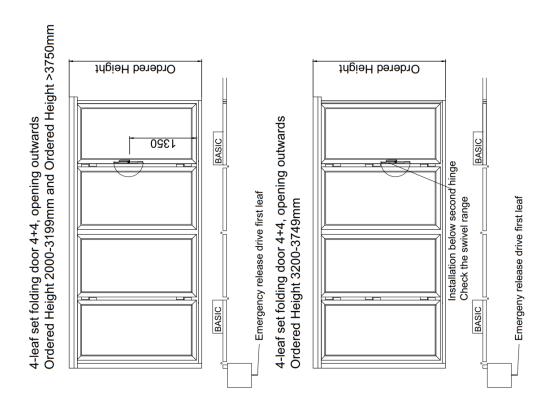


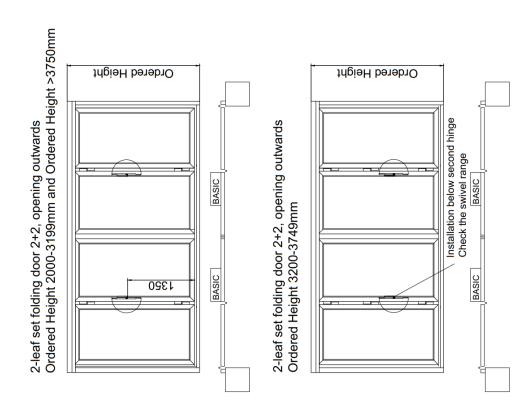




 After complete assembly, secure the bolts of all hinge flaps with drive-in plugs (loosen the leaf seal locally)

4.9 Additional hinge for installation of emergency release





5 Disassembly and disposal

5.1 Disassembly

Disassembling the folding door must be performed by a specialist company and two specialist fitters.

The door must be disassembled in the following order:

- 1. Close the door
- 2. Remove drive (if installed)
- 3. Remove running gear bolt
- 4. Disassemble leaves applying the reverse order of installing them
- 5. Remove door frame



Don't let any parts fall down!

5.2 Disposal

If disposal is chosen, the individual components must be separated by their material type and recycled.

Customer service address

SCHNEIDER Torsysteme Gesellschaft m. b. H. Kalzitstrasse 1, A-4611 Buchkirchen (Austria)

Tel.: +43 (7243) 54588-0

E-Mail: office@schneider.co.at

Web: http://www.schneider.co.at