



LAMILUX Glass Skylight F100 Circular

Assembly instruction

General comments

The content of this assembly instruction manual has been established to the best of our knowledge. All notes, technical and visual information reflect the current state of technology and are based on our experiences.

Legal claims cannot be derived from the content of this installation manual. LAMILUX reserves the right to change technical specifications.

Every work has to be done in accordance with the current state of technology, the regulations and guidelines of authorities, trade associations, accident prevention regulations and professional associations of the Federal Republic of Germany, the European Union and the country of destination. As far as standards, technical regulations or guidelines (e.g. EN or equal standards) exist, the work has to be done in compliance with those directives.

Revision index:

This version replaces previous editions completely.



The assembly instruction manual must be read before installation
Particularly the safety and operating instructions



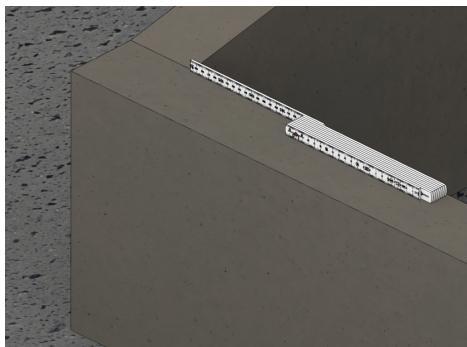
Do not step on glass - RISK OF BREAKING THROUGH



Always use fall arrest equipment and follow national regulations for fall-through protection



Check all materials are complete on delivery



Check and prepare for installation

In general, the building tolerances apply which can be given on request.

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Transport | Assembly

Skylights of the F100 series will be delivered already completely pre-assembled onto its GRP upstand. The skylights will be therefore packed on a wooden crate. The bottom of the wooden crate is designed with square timbers and can be transported with a forklift truck. Lifting up the skylights to the roof should be done including the wooden crate. For safety reasons, the skylights should be kept inside the wooden crate for as long as possible.

Do NOT lift up the skylights on the frame (risk of breakage). Skylights can be carefully lifted from the bottom flange to carry it to the roof opening.



ATTENTION

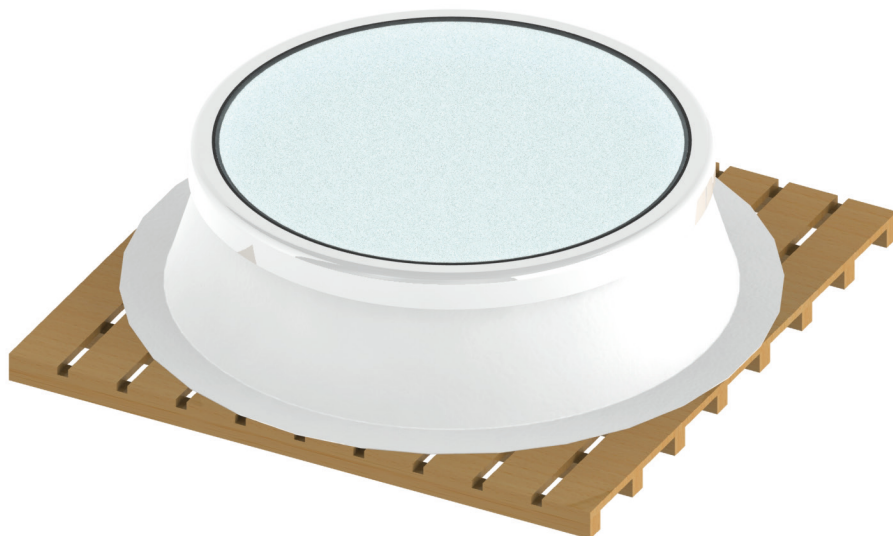
Always store aerated

NEVER lift upper part of the glass as well as the entire element with a glass sucker.

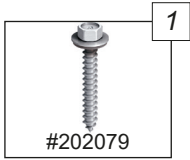


Avoid overheating!

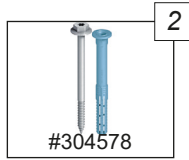
Risk of glass breakage



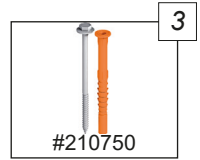
Structural attachment



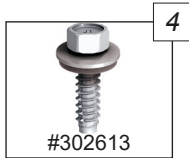
Wood screw
JA3-6,5x50-E16/2



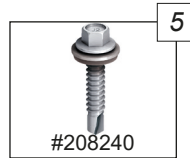
Screw-in wall plug
SDF-KB-10Vx50-V



Screw-in wall plug
SDP-KB-10Gx80-V



Sealing screw
JA3-6,5x32-E16/2



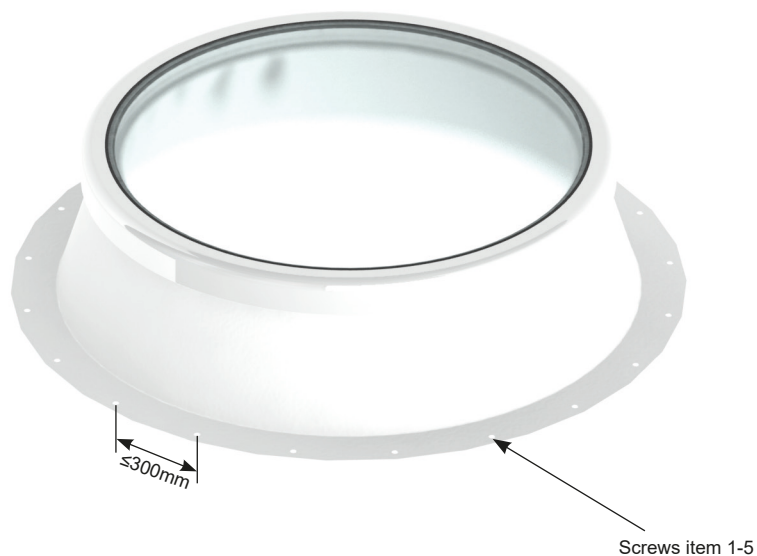
Drilling screw
JT3-6-5,5x30 E16/2

Substructure	Item number	Drill hole in upstand
Wood	1	Ø 7mm
Reinforced concrete	2	Ø 10,5mm
Aerated concrete	3	Ø 10,5mm
Steel 0,63 - 1,5mm	4	Ø 7mm
Steel 1,5 - 3mm	5	Ø 6mm

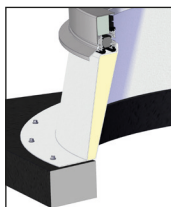


Fixings are not included in scope of delivery. Please contact our sales office if you wish to add these to your order.
Equivalent screws and plugs with technical approval can be procured from most DIY stores or your local builders merchants and can also be used.

Starting at one point, evenly space your fixings at 300mm centres.
Please refer to fixing details table (page 6) depending on substructure.



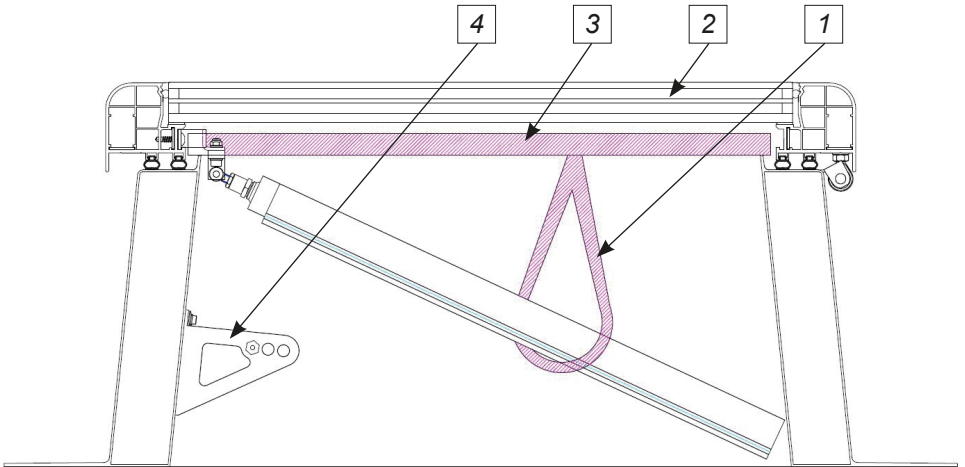
Note:
We recommend a roof pitch of $>5^\circ$ or a corresponding wedge to prevent water ponding on the Glass Skylight F100 Circular.



Please note!
Waterproofing is to be carried out by an approved roofer after installation.

Removal of transport protection

1. Cut the cable connector
2. Raise the upper part
3. Remove the wood truss
4. Hinge the driver in the motor console (see assembly instruction below)



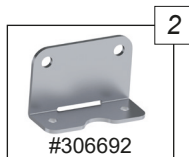
Glass fixing option A Rigid locked – inside

In the event of upstand and upper part being separated

Components:



drilling screw
JT3-FR-6 5,5x35

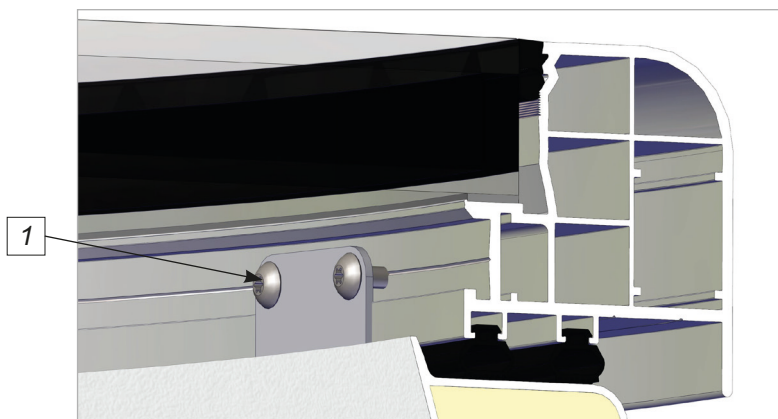
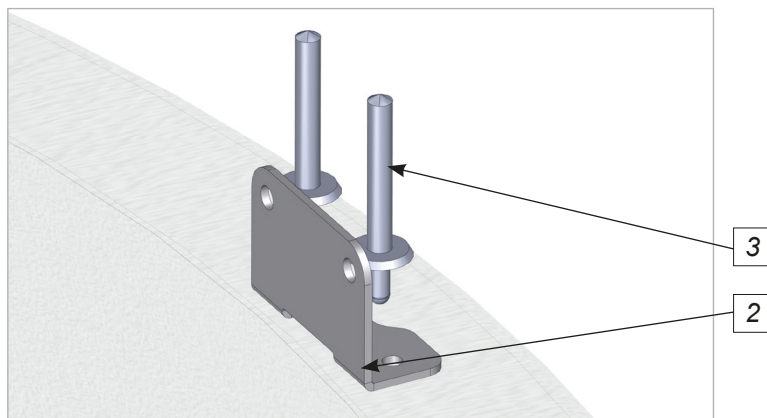


locking sheet



blind rivet $\varnothing 4,8 \times 16$

Assembly:

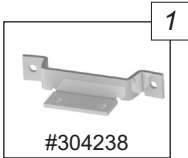


Glass fixing option B

Ventilated locked – solo

In the event of upstand and upper part being separated

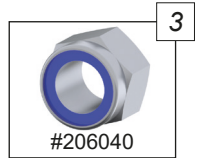
Components:



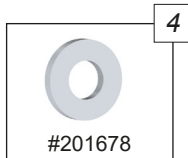
#304238
wing bent bracket



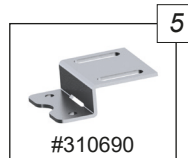
#209941
cylinder head screw
M6x16



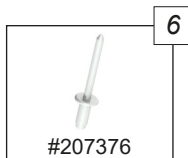
#206040
nut M6



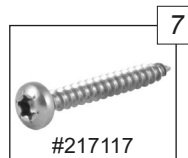
#201678
washer ø6,4



#310690
locking sheet
OKD 60-150

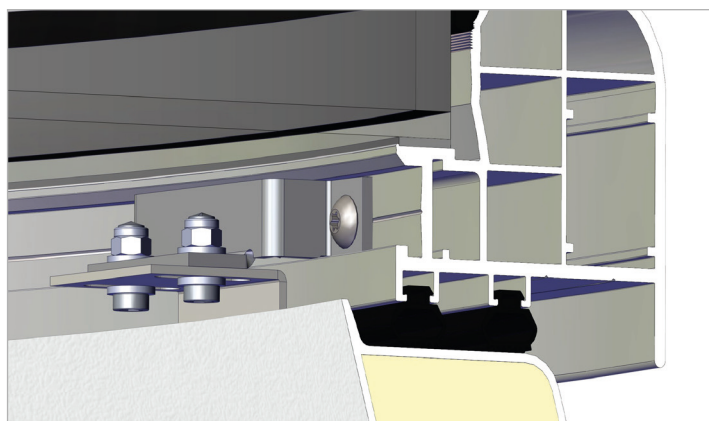
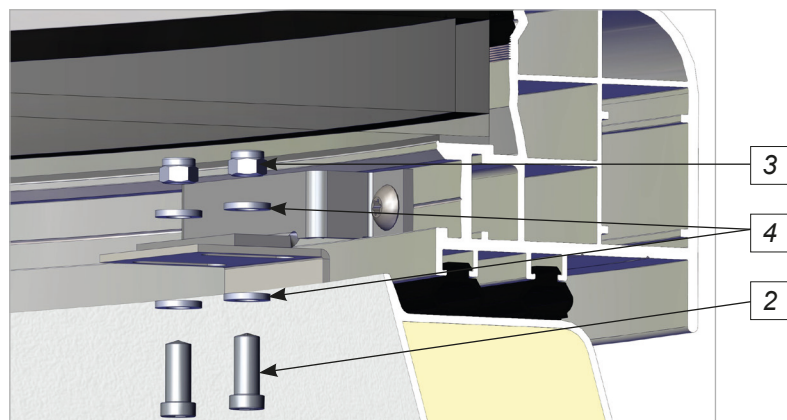
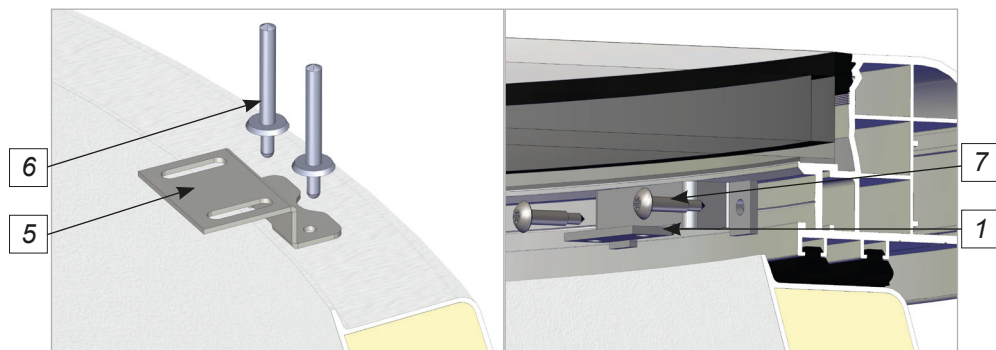


#207376
rivet 4,8x16



#217117
drilling screw
5,5x35

Assembly:

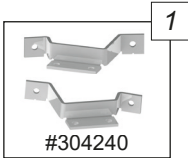


Glass fixing option C

Ventilated locked – tandem

In the event of upstand and upper part being separated

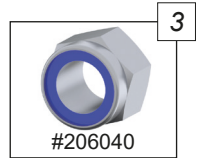
Components:



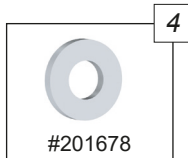
wing bent bracket
- pair



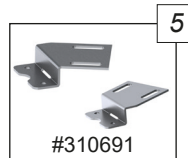
cylinder head screw
M6x16



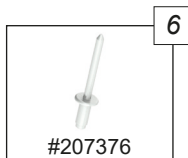
nut M6



washer $\varnothing 6,4$



locking sheet
OKD 180

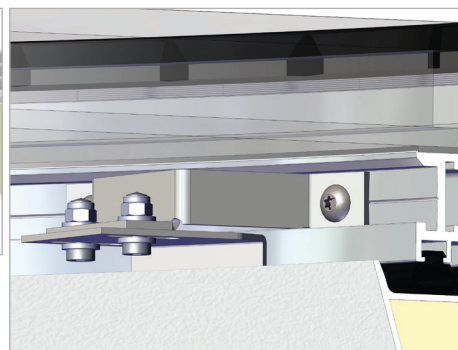
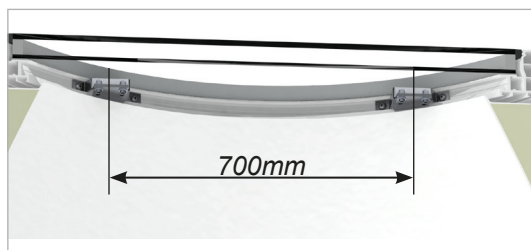
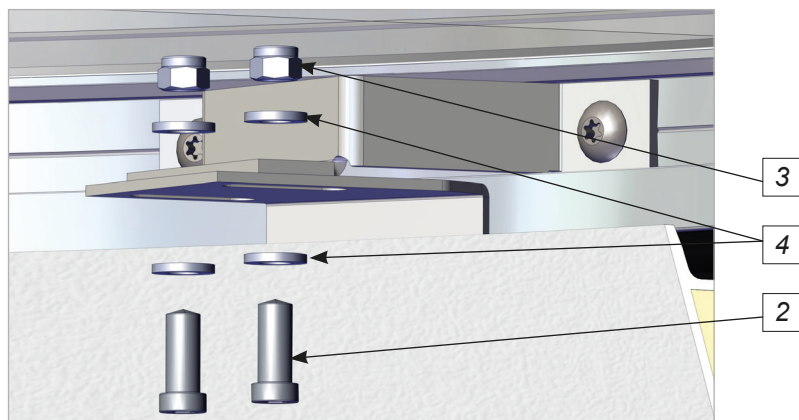
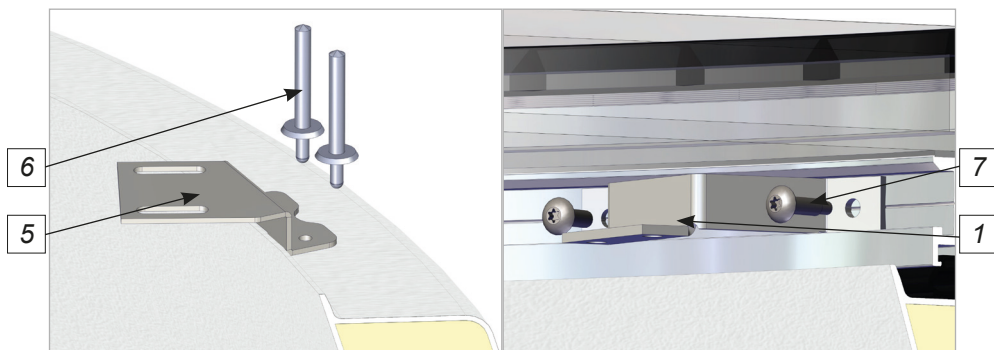


rivet 4,8x16



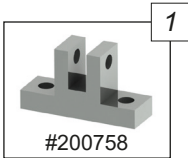
drilling screw
5,5x35

Assembly:

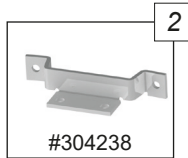


Components and fixing detail for 24V/230V solo drive "Type JM-DC"

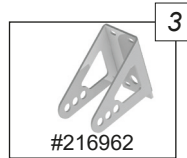
Components:



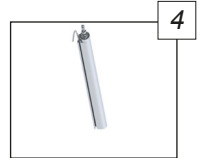
wing bent



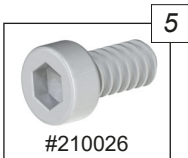
wing bent bracket



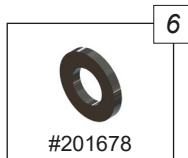
motor bracket



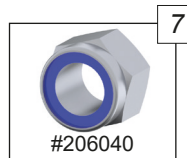
motor 24V/230V



cylinder head screw
DIN 912 M6x20



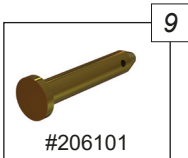
washer
DIN 125 6,4



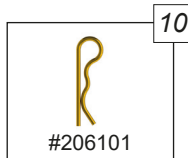
nut M6



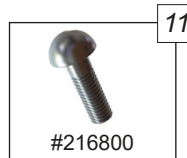
drilling screw
5,5x35



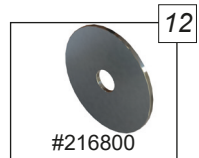
locating bolt



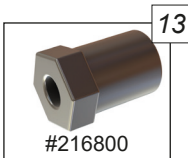
lock splint



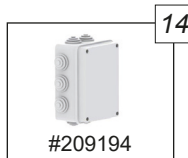
stud screw JM-DC



washer 5,2

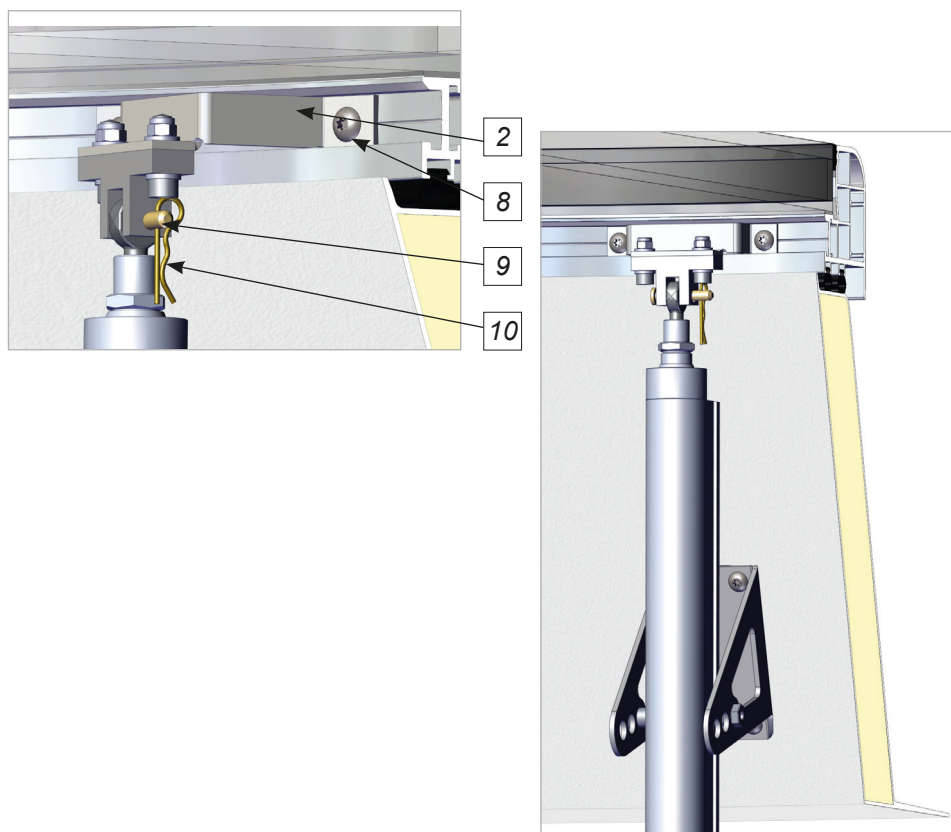
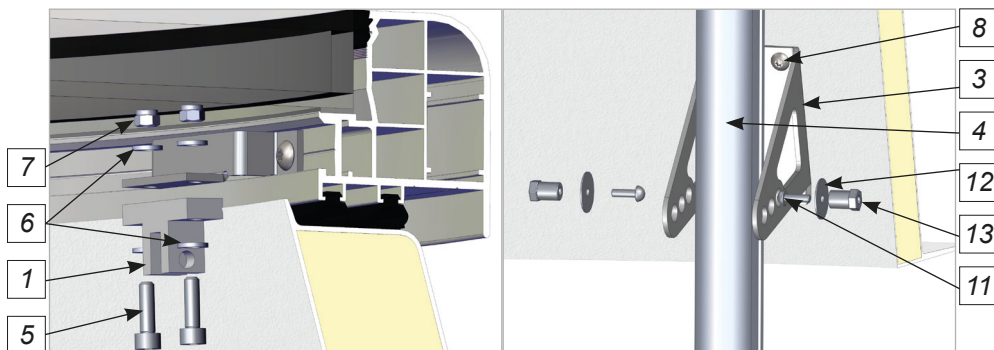


threaded bush M5



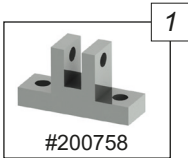
power pack for ventilation only for 230V version

Assembly:

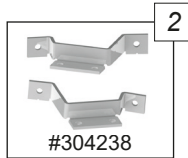


Components and fixing details for 24V/230V tandem drive "Type JM-DC"

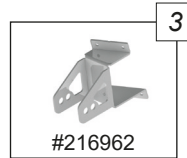
Components:



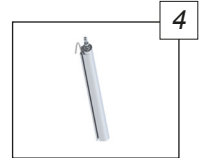
wing bent



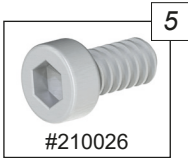
wing bent bracket



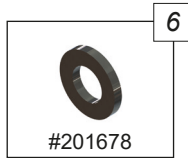
motor bracket



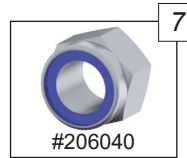
motor 24V/230V



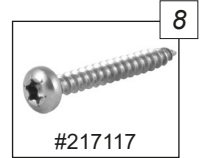
cylinder head screw
DIN 912 M6x20



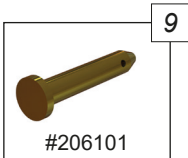
washer
DIN 125 6,4



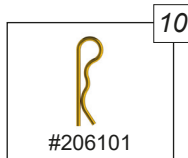
nut M6



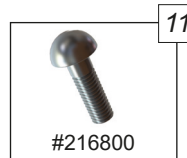
drilling screw
5,5x35



locating bolt



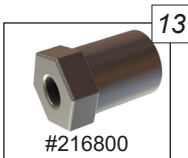
lock splint



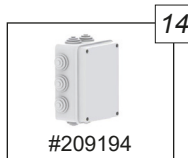
stud screw JM-DC



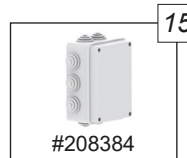
washer 5,2



threaded bush M5

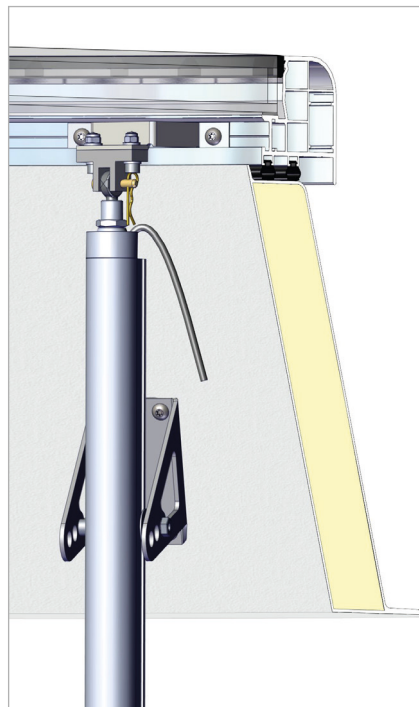
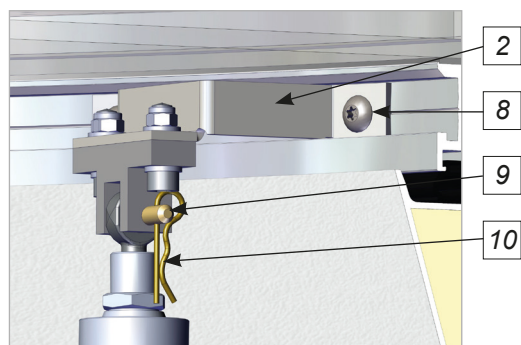


power pack for ventilation only for 230V version



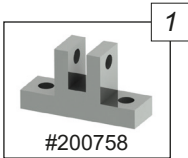
synchronous-speed control LA-GL/2

Assembly:

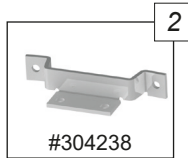


Components and fixing details for 230V solo drive "Type SP8"

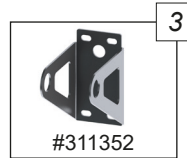
Components:



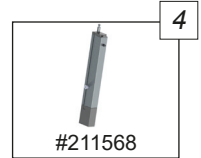
wing bent



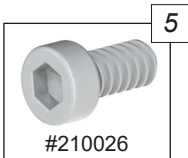
wing bent bracket



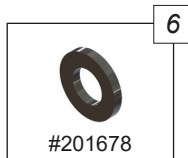
motor bracket



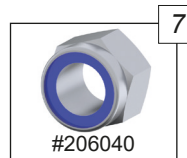
motor 230V



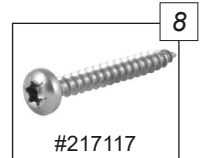
cylinder head screw
DIN 912 M6x20



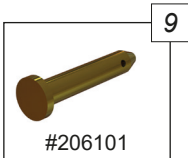
washer
DIN 125 6,4



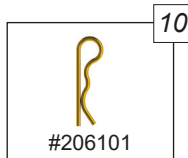
nut M6



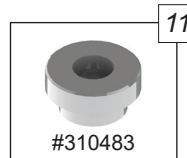
drilling screw
5,5x35



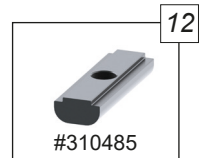
locating bolt



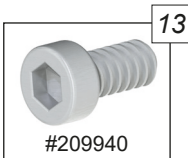
lock splint



liner \varnothing 25mm

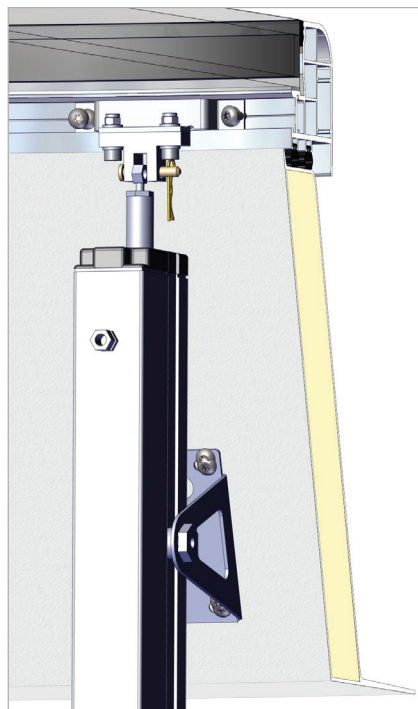
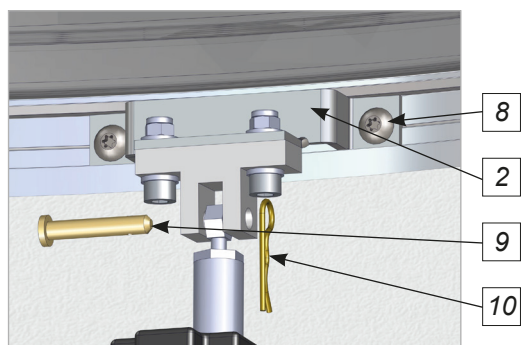
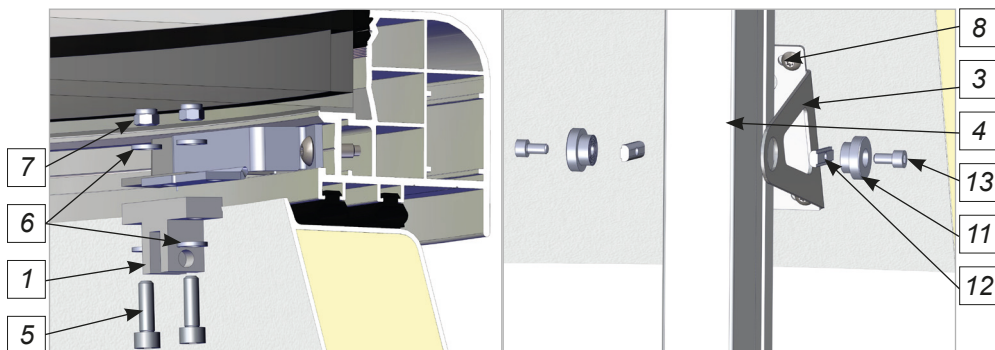


nut for T furrow



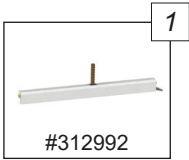
cylinder head screw
DIN 912 M6x12

Assembly:

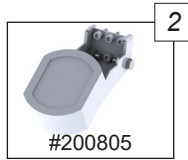


Concealed chain drive

Components:



concealed chain drive



rain detector

Assembly:

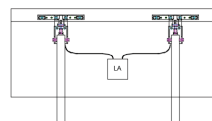


Wiring diagrams of electric drives

Ventilation electric 24V/230V type "JM-DC"

technical details	Jo65	Jo100
driving force	spindle drive	
maintenance	24V DC, +4/-2V	
rated current	0,8A / 19,2W	
nominal force	650N	1000N
run-time	ca. 375mm/min	ca. 200mm/min
case	aluminium	
safety class	IP65	
load breaking	integrated	
cable length	1,7m - 2,4m	

Solo / Tandem 24V

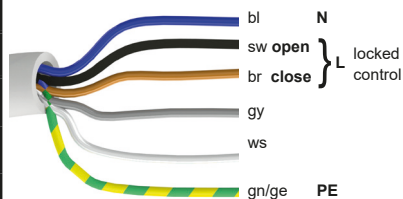


To ensure a smooth operation, the motors need to be synchronised via an external control panel!!

Ventilation electric 230V type "SP8"

technical details	SP8
driving force	spindle drive
maintenance	230V AC, 0,2A
nominal force	800N
run-time	ca. 420 mm/min
case	aluminium
safety class	IP54
load breaking	integrated
cable length	1m

Solo 230V



Concealed chain drive

technical details	230V
driving force	chain drive
maintenance	230V AC, 50Hz
rated current	0,2A
nominal force	ca. 800N
run-time	ca. 8mm/s
safety class	IP32
load breaking	integrated
cable length	3m

Tandem 230V





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The technical data listed in this brochure correspond to the current status at the time of printing and are subject to change. Our technical specifications are based on calculations and supplier specifications, or have been determined by independent testing authorities within the scope of applicable standards. Thermal transmission coefficients for our plastic glazing were calculated using the finite element method with reference values in accordance with DIN EN 673 for insulated glass. Taking into account practical experience and the specific characteristics of plastic, the temperature difference between the outer surfaces of the material was defined as 15 K. Functional values refer to test specimens and the dimensions used in testing only. We cannot provide any further guarantees of technical values. This particularly applies to changed installation conditions or if dimensions are re-measured on site.



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