



Revo.Pure Revolving Doors

Installation Instructions

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Introduction

Symbols and illustrations

Warning notices

In these instructions, warning notices are used to warn against material damage and injuries.

- ▶ Always read and observe these warning notices.
- ▶ Observe all measures marked with the warning symbol and warning word.

Warning symbol	Warning word	Meaning
	WARNING	Danger to persons. Non-compliance can result in death or serious injuries.
	CAUTION	Danger to persons. Non-compliance can result in minor injuries.

Further symbols and illustrations

Important information and technical notes are highlighted to explain correct operation.

Symbol	Meaning
	means "important information"; Information on avoiding material damage, understanding a concept or optimising the operation sequences
	means "additional information"
	Symbol for an action: This means you have to do something. ▶ If there are several actions to be taken, keep to the given order.

Product liability

In compliance with the liability of the manufacturer for his products as defined in the German "Product Liability Act", compliance with the information contained in this brochure (product information and intended use, misuse, product performance, product maintenance, obligations to provide information and instructions) must be ensured. Failure to comply releases the manufacturer from his statutory liability.

Security

To ensure personal safety, it is important to follow these safety instructions.
These instructions must be kept.

Fundamental safety notes

To ensure personal safety, it is important to follow these safety instructions. These instructions must be kept.

Intended use

- The revolving door is only suitable for use in entrance and interior areas of pedestrian traffic in commercial plants and public areas.
- The Revo.PRIME revolving door must not be used as a fire or smoke protection door.
- The variant of the Revo.PRIME revolving door with break-out leaves is suitable for use on escape and rescue routes.

Safety notes

- In compliance with Machinery Directive (2006/42/EC), a risk analysis must be performed and the door system identified in accordance with CE Marking Directive 93/68/EEC before the door system is commissioned.
- The mandatory installation, maintenance and repair work must be performed by properly trained personnel authorised by GEZE.
- The country-specific laws and regulations are to be observed during safety-related tests.
- GEZE is not liable for any injuries or damage whatsoever resulting from unauthorised changes to the system.
- GEZE does not accept any warranty for combinations with third-party products.
- Furthermore, only original GEZE parts may be used for repair and maintenance work.
- The connection to the mains voltage must be carried out by a qualified electrician. Perform the power connection and protective earth connection test in accordance with VDE 0100 Part 610.
- Before connecting the on-site power supply circuit, a ground connection must be completed (connect to equipotential bonding).
- Use an on-site miniature circuit breaker with locking option as the line-side disconnecting device, the dimensioning of which is matched to the type, cross-section, type of routing and ambient conditions of the on-site power supply circuit (all-pole disconnection).
GEZE recommends separate fuse protection for the door drive.
- Protect the keypad programme switch against unauthorised access.
- Observe the latest versions of guidelines, standards and country-specific regulations, in particular:
 - ASR A1.7 "Doors and gates"
 - EN 16005: 2012 "Power operated pedestrian doorsets – Safety in use – Requirements and test methods"
 - VDE 0100- 600 "Installation of low-voltage systems - Part 6: Tests"
 - Accident-prevention regulations, especially DGUV A1 "General regulations" and BGV A2 "Electrical installations and equipment"
 - DIN EN 60335-2-103 "Household and similar electrical appliances - Safety; Particular requirements for drives for gates, doors and windows"
- Use lifting tools adapted to the weights of the system parts.
- Check the weight distribution in the ceiling construction before lifting.
- Observe the Load Handling Regulation (LasthandhabV).

Safety-conscious working

- Secure workplace against unauthorised entry.
- Watch the swivelling range of long system parts.
- Never carry out work with a high safety risk (e.g. installing the drive, cover or door leaf) while alone.
- Secure the cover/drive panels against falling.
- Use only the cables specified on the cable plan provided. Cables must be shielded in compliance with the wiring diagram.
- Secure loose, internal drive cables with cable ties.
- Before working on the electrical system:
 - Disconnect the drive from the 230 V mains and check to ensure that it is not supplied with power.
 - Disconnect the control unit from the 24 V rechargeable battery.
 - Note that if an uninterruptible power supply (UPS) is used, the system will still be supplied with voltage despite the fact that the power supply is disconnected.
- Always use insulated wire-end ferrules for wire cores.
- Danger of injury with opened drive. Hair, clothing, cables, etc. can be drawn in by rotating parts!
- Danger of injury caused by unsecured crushing, impact, drawing-in or shearing spots!
- Danger of injury due to glass breakage!
- Danger of injury due to sharp edges in the drive!
- Danger of injury during installation through freely moving parts!
- Use ladders or suitable protective equipment when working at height.

Working on the air curtain

- Use suitable lifting tools when installing the air curtain.
- The air curtain must be connected by a specialist company.
- When working on the air curtain, watch out for sharp edges and elevated temperatures. Observe and comply with the manufacturer's specifications.

Inspection of the installed system

Measures for protection and prevention of pinching, impact, shearing or drawing-in spots:

- ▶ Check the function of safety sensors and movement detectors.
- ▶ Check protective earth connection to all metal parts that can be touched.

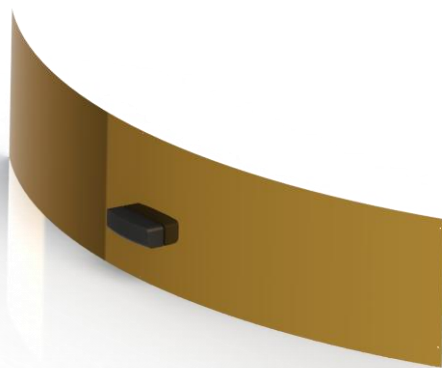
Environmentally conscious working

- When disposing of the door system, separate the different materials and have them recycled.
- Do not dispose of batteries and rechargeable batteries with household waste.
- Comply with the statutory regulations when disposing of the door system and the batteries/rechargeable batteries.
- Dispose of silicone residue according to local official regulations.

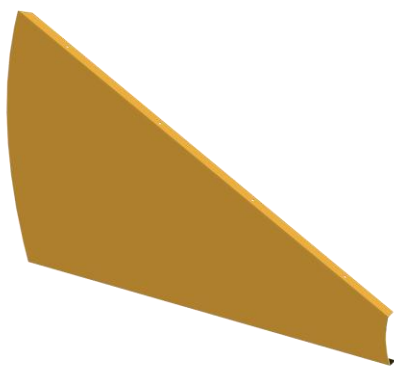
MATERIAL LIST



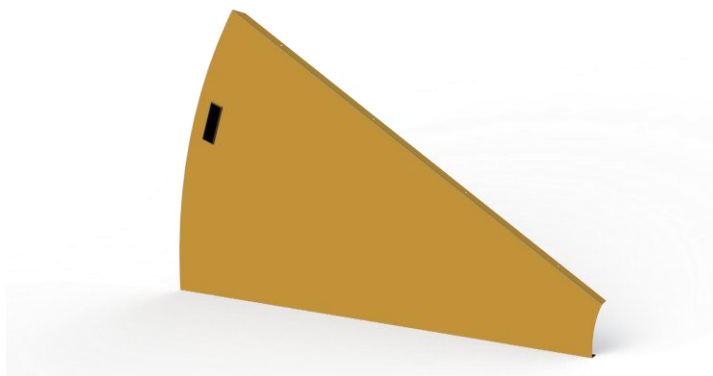
1.5 mm FRONTAL PLATE STRAIGHT



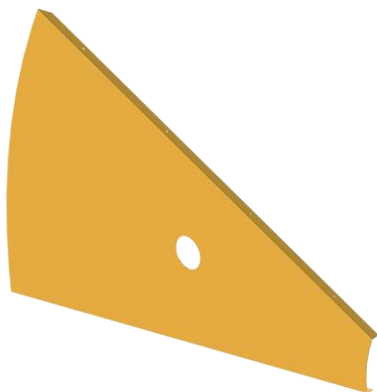
1.5 mm FRONTAL PLATE WITH RADAR



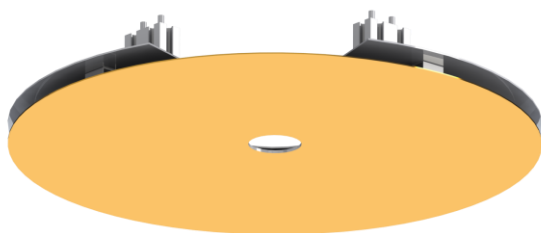
SECTIONAL PLATE - STRAIGHT



SECTIONAL PLATE - WITH PRESENCE SENSOR

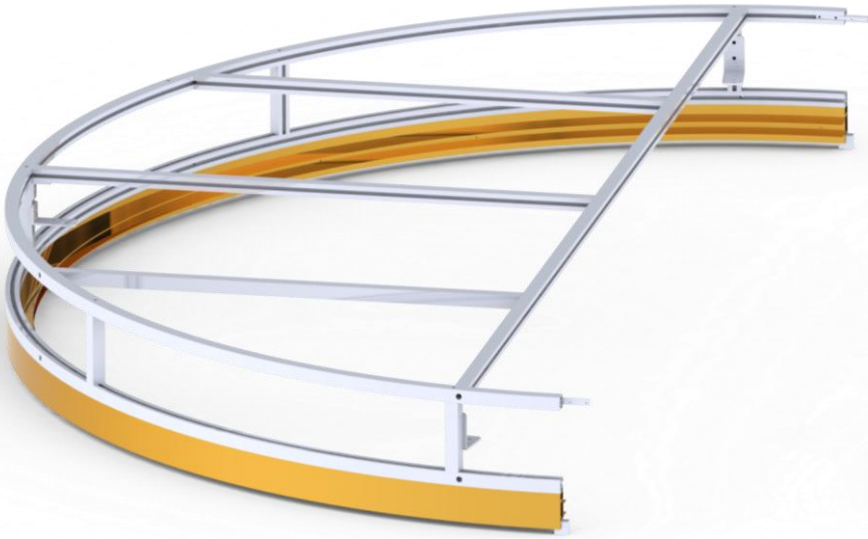


SECTIONAL PLATE - WITH SPOT HOLE



Ø60 cm CORE STEEL SHEET COMPLEX

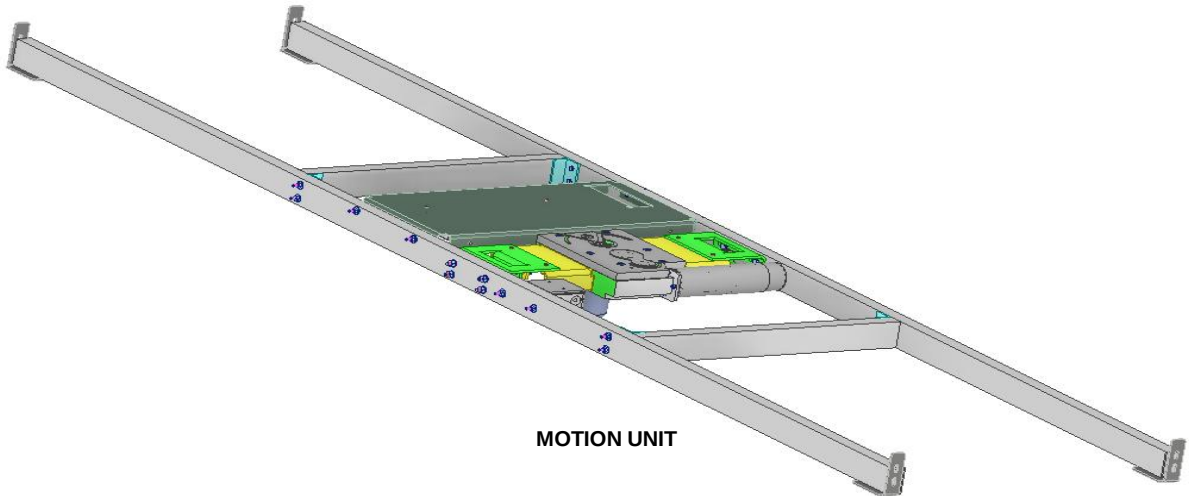
MATERIAL LIST



CANOPY HALF



30x60 SIGMA PROFILE



MOTION UNIT



TOP ROOF STEEL SHEET

MATERIAL LIST



ENTRANCE PILLAR PROFILE



INTERMEDIATE BAR PROFILE



HAND GASKET WITH SENSOR



BASE PROFILE

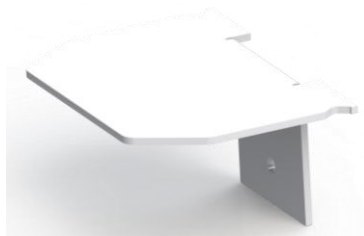
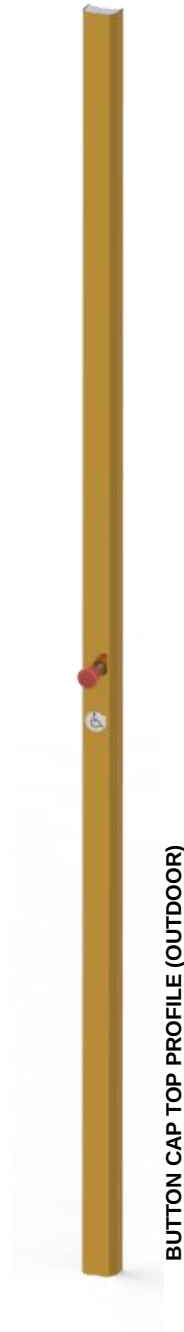


Adapter Axis Shaft



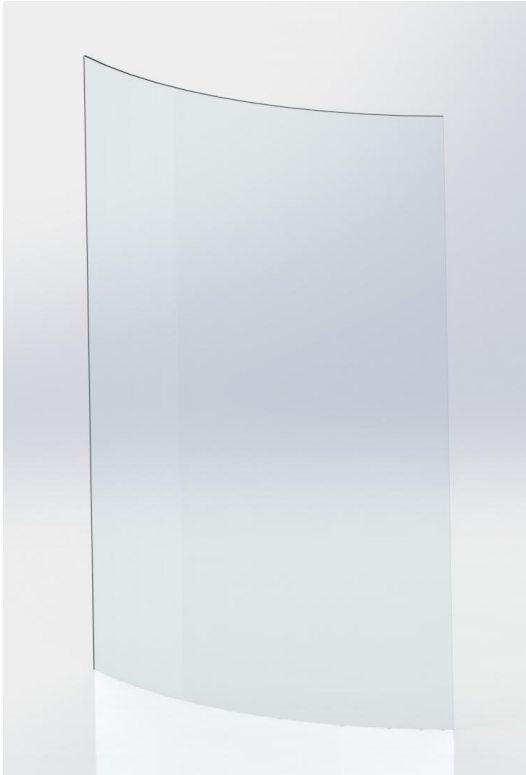
Ø50 SHAFT CONCEALER

MATERIAL LIST

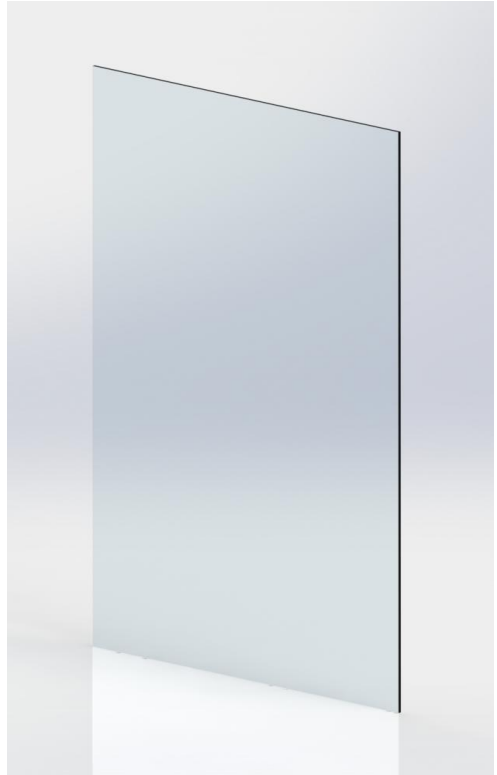


BUTTON CAP TOP CLOSING PROFILE

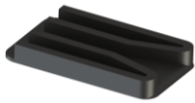
MATERIAL LIST



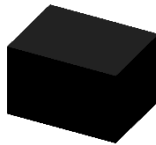
CURVED GLASS



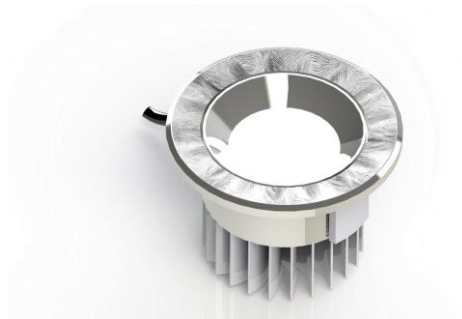
FLAT GLASS



GLASS WEDGE



COMPRESSION WICK



LED SPOT

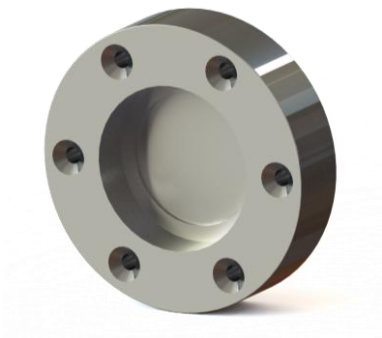


TOP ENTRANCE PROFILE

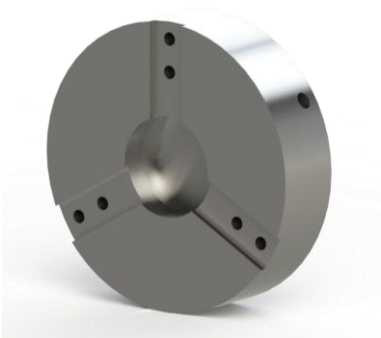


GLASS SEAL

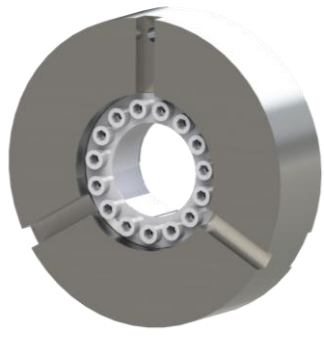
MATERIALS LIST



BOTTOM CORE SET



CENTER CORE SET



TOP CORE SET



WING FRONT BRUSH STRIP



WING FRONT PROFILE



WING REAR PROFILE



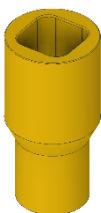
WING BOTTOM-TOP BRUSH STRIP



WING BOTTOM-TOP PROFILE



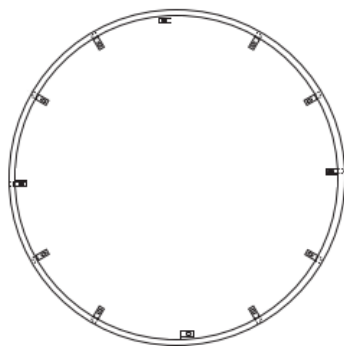
WING STUD



Adapter Axis Shaft

1. MOUNTING THE FLOOR RING

PRE-ASSEMBLY VIEW



DETAIL A

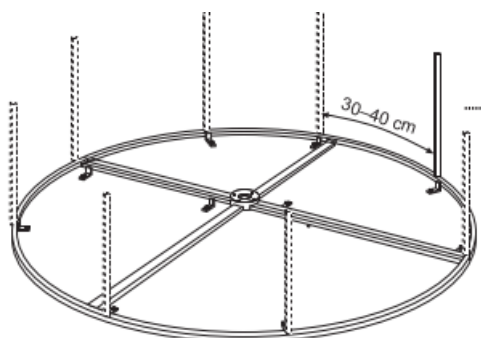
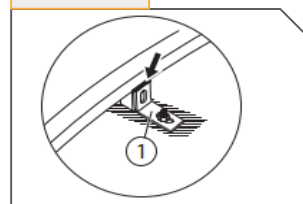


FIGURE A

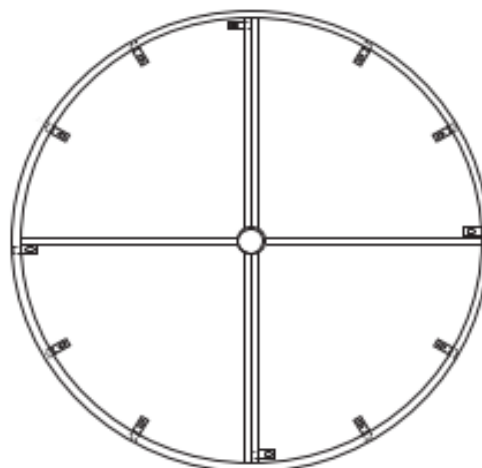
Material List

- Floor Ring x2
- M8x10 mm Nut x8
- L Profile x8

Assembly Stages

1. Align the floor ring every 30–40 cm using a levelling device and underlay it. **As shown in Figure A.**
1. Align the bracket to the floor ring and screw it to the subsurface. **As shown in Detail A**
2. Align the height of the floor ring once more at these points.

POST-ASSEMBLY VIEW



1.1. INSTALLATION WITHOUT FLOOR RING

PRE-ASSEMBLY VIEW

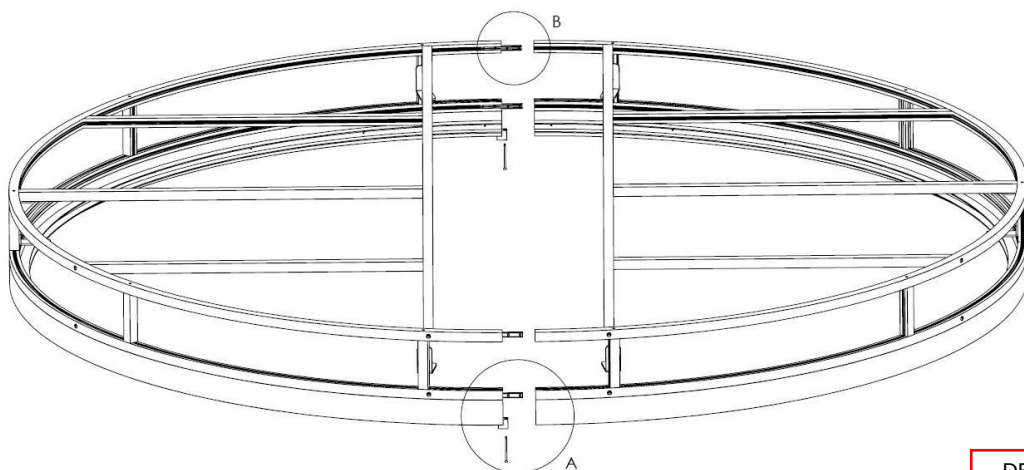


FIGURE - A

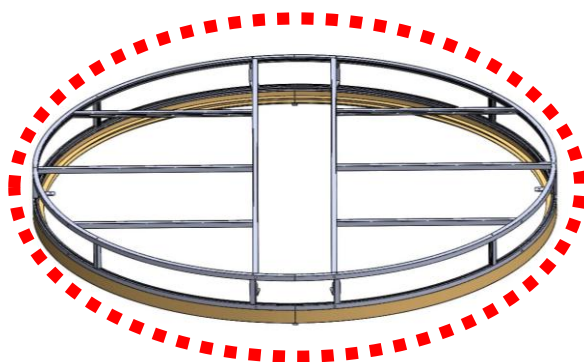
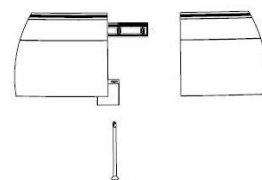
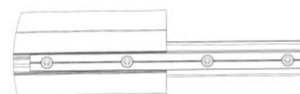


FIGURE - B

DETAIL A



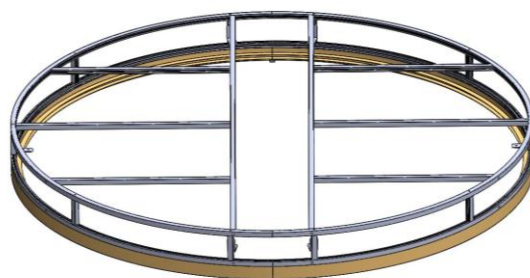
DETAIL B



Assembly Stages

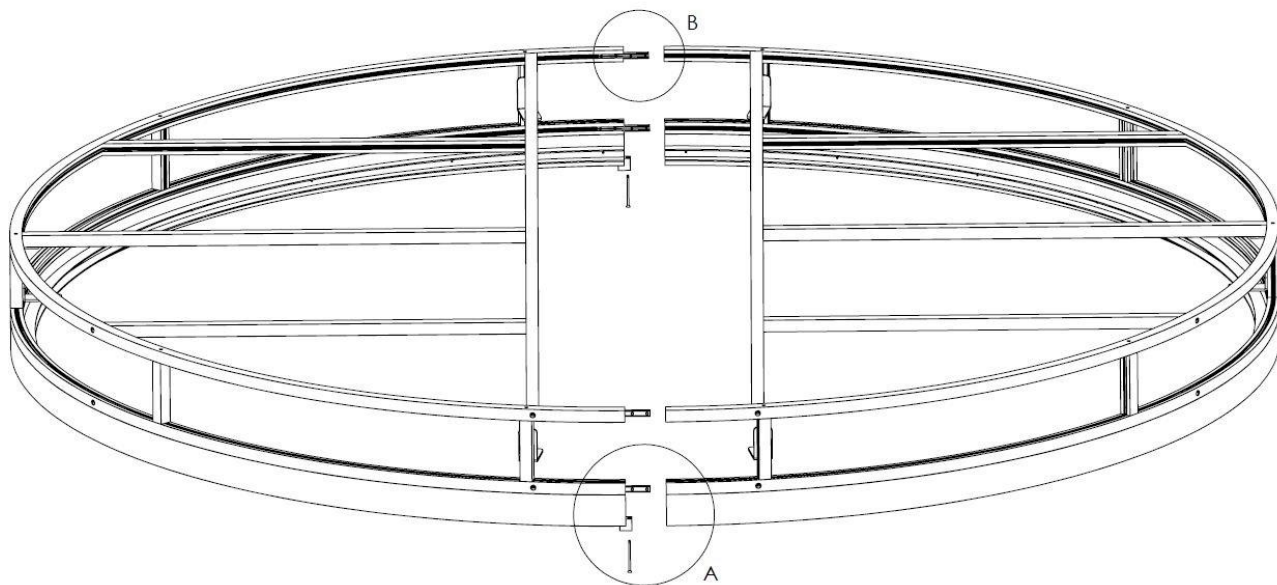
1. If there is no Floor Ring, it must be bring canopy to the position **as shown in FIGURE A**.
2. The Canopy that connected must be drawn using boardmarker onto floor from outer diameter. **As shown in FIGURE B**.
3. Then, other installation steps' need to be followed.

POST-ASSEMBLY VIEW

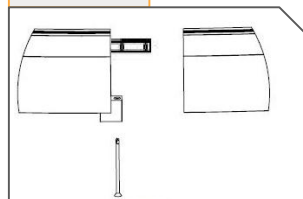


2. CONNECTING THE CANOPY

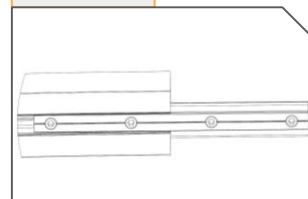
PRE-ASSEMBLY VIEW



DETAIL A



DETAIL B



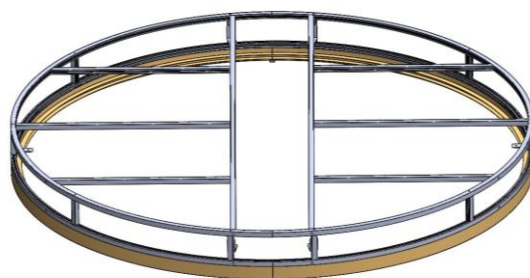
Material List

- Canopy Half x2
- 4,8x80 mm Self-Drilling Screw x2 (S80)

Assembly Stages

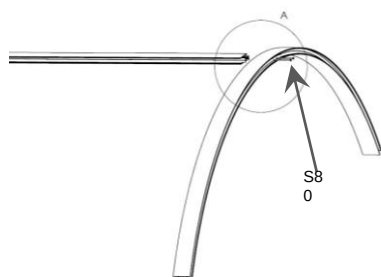
1. Bring canopies to the position as shown in the Figure.
2. Connect the canopies and tighten the 30x30 sigma nuts. **As shown in DETAIL B**
3. Fix the grooves with 4,8x80 self-drilling screws (**S80**). **As shown in DETAIL A.**

POST-ASSEMBLY VIEW

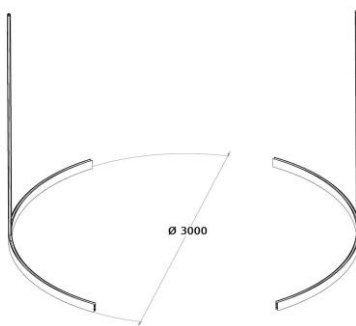


3. CONNECTING THE BASE & INTERMEDIATE BAR PROFILES

PRE-ASSEMBLY VIEW

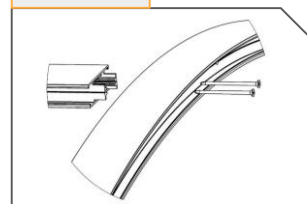


1. STEP



2. STEP

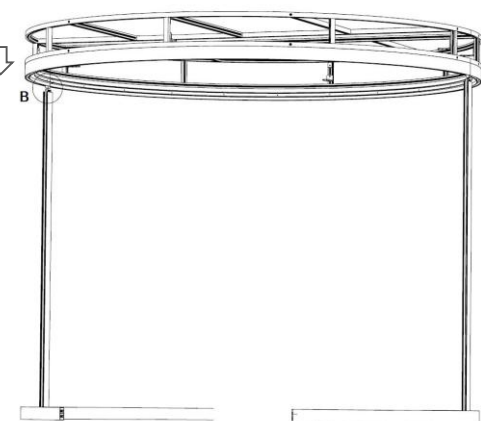
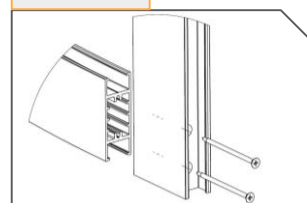
DETAIL A



DETAIL B



DETAIL C



3. STEP



4. STEP

S80

Materials List

- Base Profile x2
- Intermediate Bar Profile x2
- Canopy x1
- Entrance Pillar Profile x4
- 4,8x80 mm Self-Drilling Screw x12 (S80)

Assembly Stages

- 1. STEP:** Fix the intermediate bar profiles to the Base profiles by 4,8x80 self-drilling screws (**S80**). As shown in **DETAIL A**.
- 2. STEP:** Open the base profiles from the outside equivalent to revolving door diameter, and position reciprocally.
- 3. STEP:** Position the grooves on the canopy so as to correspond to their places above the intermediate bar profiles. Use lifting device for canopy. As shown in **DETAIL B**.
- 4. STEP:** In order to support the canopy, fix the entrance pillars to the bases with 4,8x80 self-drilling screws (**S80**). As shown in **DETAIL C**.

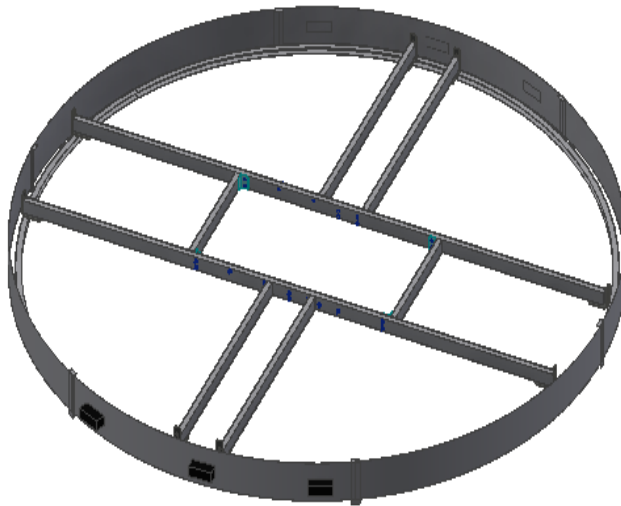
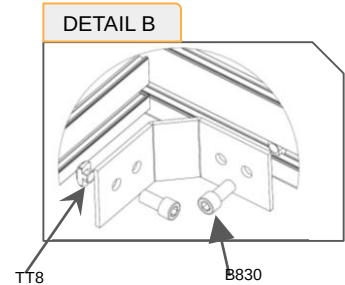
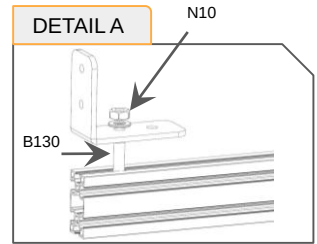
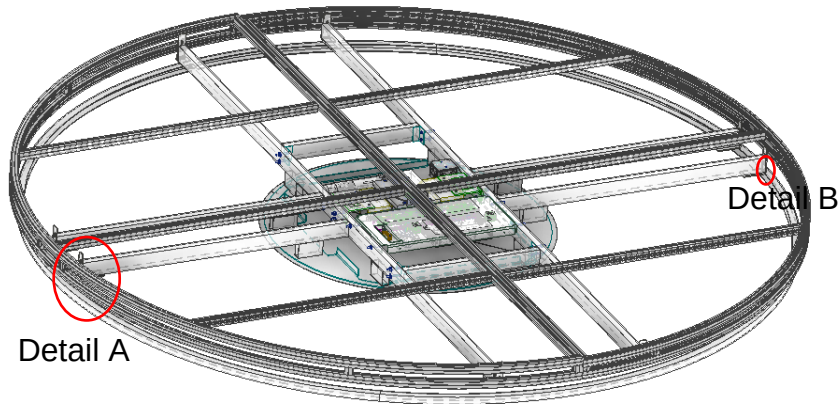
POST-ASSEMBLY VIEW



4.

CONNECTING THE CANOPY & MOTION UNIT

PRE-ASSEMBLY VIEW



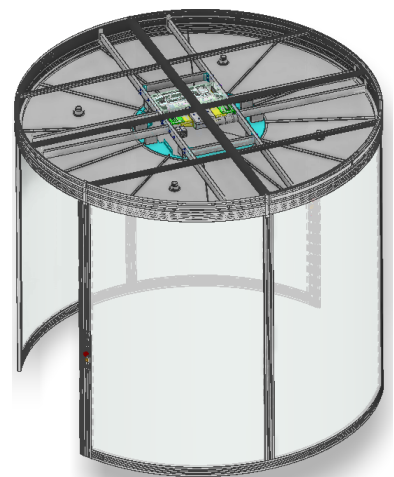
Materials List

- Canopy x1
- Motion Unit x1
- 30x60 Sigma Profile x2
- M8x30 Imbus Screw x12 (B830)
- M8 Nut x2 (N8)
- M10x30 mm Spanner head bolt x4 (B130)
- M10 Nut x4 (N10)
- M8 Knurled Nut x8 (TT8)
- 45° L Connection Steel Sheet x4

Assembly Stages

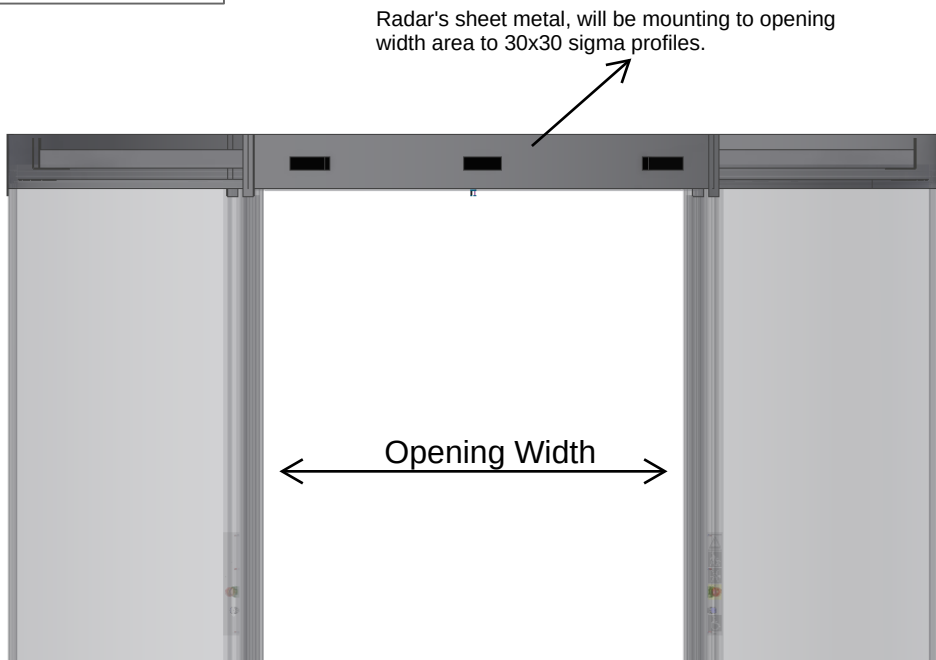
1. As shown in **DETAIL A**, insert the M10x30 spanner head bolts (**B130**) 45x90 to the bottom compartments of the sigma profiles and lift the motion unit in a balanced manner, center the motion unit depending on door diameter and tighten the screws with M10 nuts (**N10**).
2. After the motion unit has been assembled, fix the 30x60 sigma profiles as shown in **DETAIL B** to the 45x90 sigma profile, perpendicularly at the center point, using L connection steel sheet, M8x30 imbus screws (**B830**) and M8 knurled nuts (**TT8**).

POST-ASSEMBLY VIEW

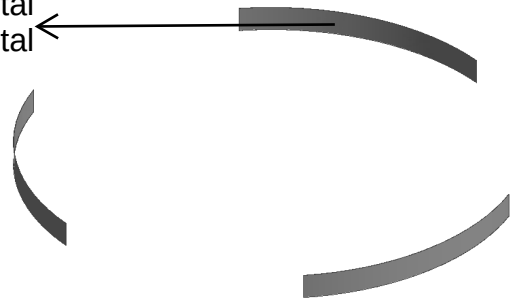


5. FIXING THE REVOLVING DOOR TO STATIONARY JOINERY

PRE-ASSEMBLY VIEW



3 Wings 6 Sheet metal
4 Wings 4 Sheet Metal



Material List

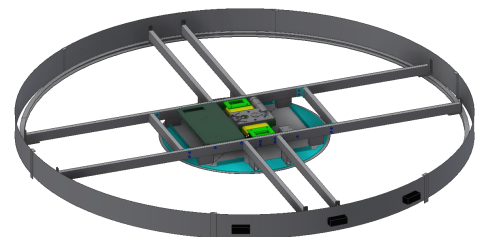
- Frontal Plate
for 3 Wings x4
for 4 Wings x2
- 3.9x19 mm Self-Drilling Screw
for 3 Wings x16 (S319)
for 4 Wings x8 (S319)

Assembly Stages

1. If the revolving door will be fixed to any stationary joinery, install the 4 frontal plates, other than the frontal plates with radar, after the gurney is assembled, to the canopy be 3.9x19 mm self-drilling screws (**S319**).
2. Pull the revolving door in a balanced way towards the joinery it will be fixed and position it.
3. Balance at the Intermediate bars and fixe the door to the joinery.

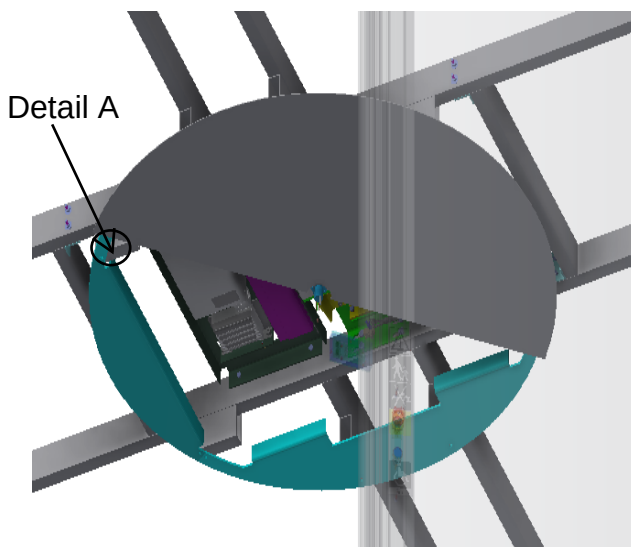
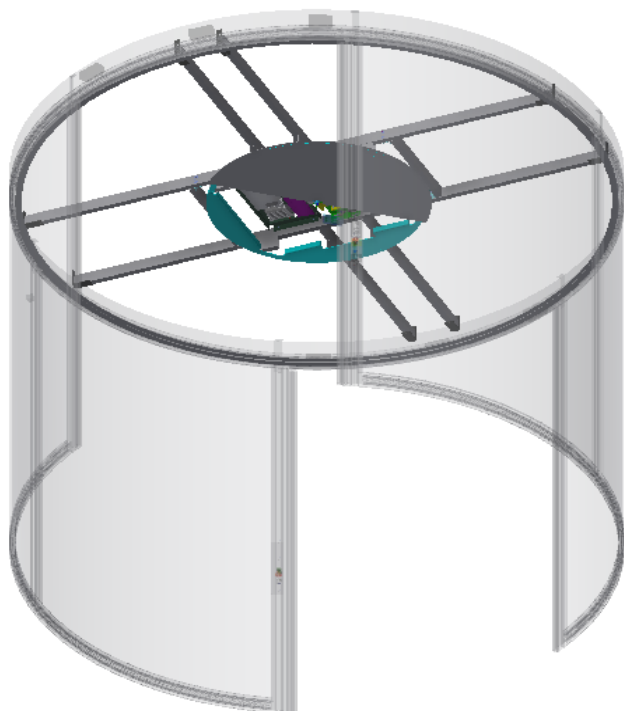
NOTE: This page is applicable if the revolving door will be fixed to a stationary joinery. Otherwise, continue with page 5.

POST-ASSEMBLY VIEW



6. CONNECTING THE CORE STEEL SHEET

PRE-ASSEMBLY VIEW



DETAIL A



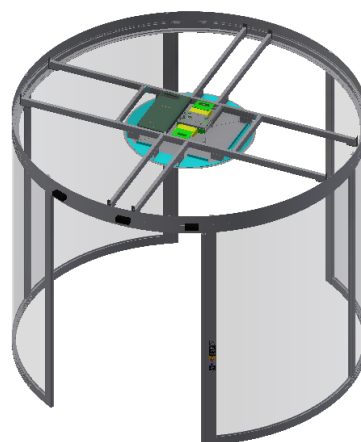
Material List

- Ø56 cm Core Steel Sheet Complex x2
- M8 Nut x8 (N8)

POST-ASSEMBLY VIEW

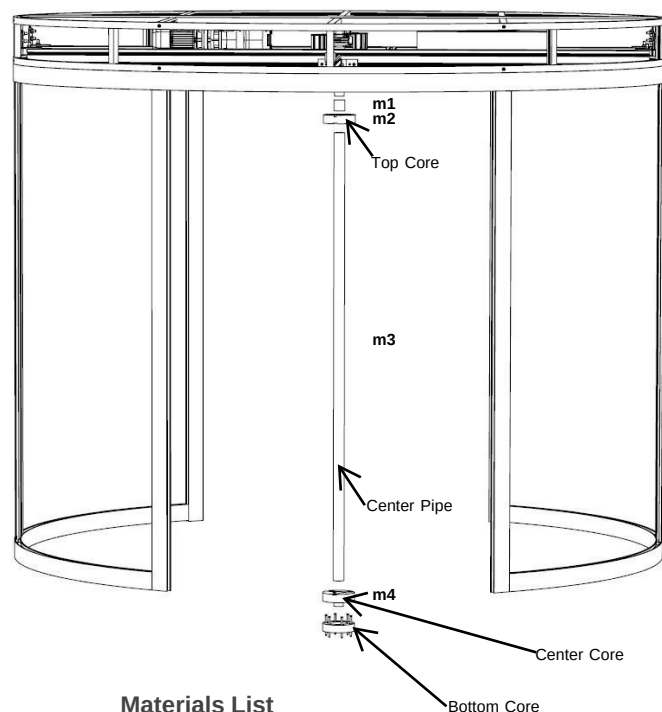
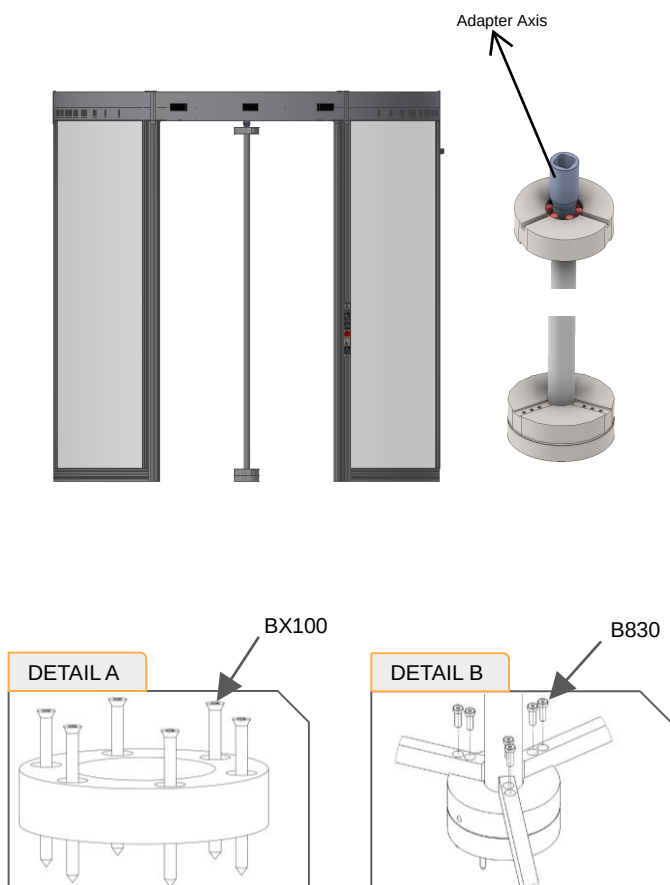
Assembly Stages

1. Pass the Ø56 cm Core sheet metal through the gear wheel shaft.
2. Insert 8 x M8 screws to the slots in the motor tray 30x60 sigma profiles of the Ø56 cm Core steel sheet complex and tighten with M8 nuts (**N8**). **As shown in DETAIL A.**



7. CONNECTING THE CORE SET

PRE-ASSEMBLY VIEW



Materials List

- Bottom Core Set x1
- Center Core Set x1
- Top Core Set x1
- Ø50 Shaft Concealer x1
- Ø50 Center Pipe x1
- 7.5x100 mm Buldex Screw x6 (BX100)
- Wing Stud for **3 wings** x6
for **4 wings** x8
- M8x30 mm Imbus Screw x12 (B830)
- Adapter Axis

Assembly Stages

1. Bases are adjusted according to door diameter.
2. Intermediate pillars are leveled. Door diameter is checked.
3. The bottom core set is centered and fixed to the floor by 7.5x100 mm buldex (**BX100**) screws. **DETAIL A**
4. Ø50 shaft concealer is inserted. m1
5. Top core set is assembled. m2
6. Ø50 center pipe is assembled. m3
7. Center core set is assembled. m4
8. Studs are assembled on the both side core set by M8x30 mm hexagen (**B830**) screws. **DETAIL B**

POST-ASSEMBLY VIEW



8. WING INSTALLATION & FIXING THE REVOLVING DOOR TO THE DOOR

PRE-ASSEMBLY VIEW

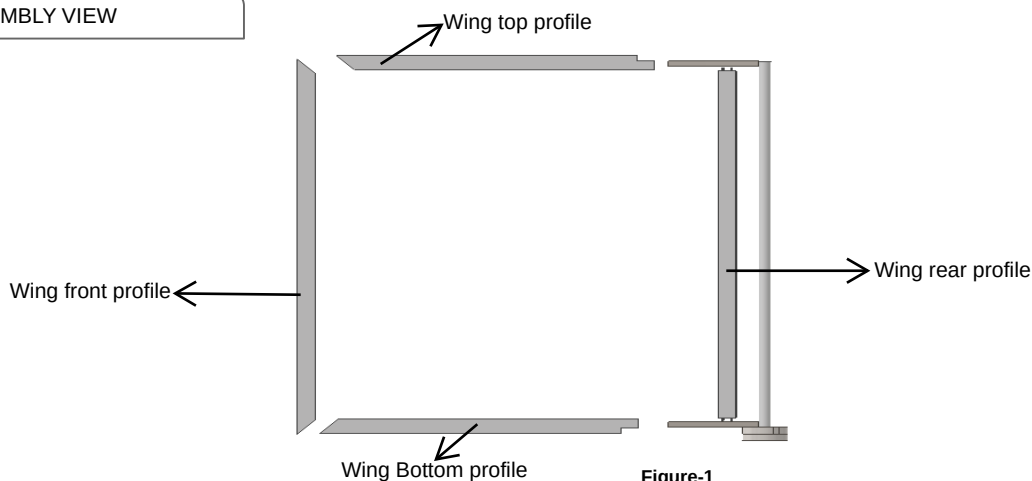


Figure-1

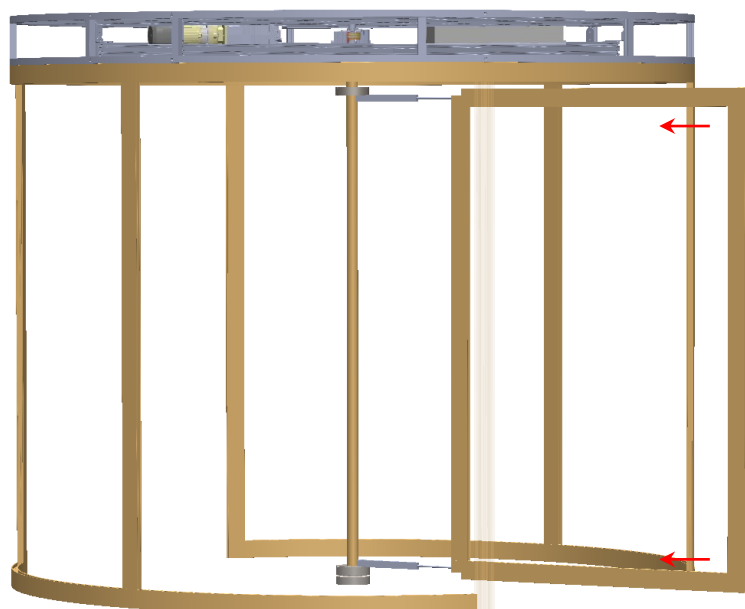


Figure-2

Material List

- Wing Rear Profile x(number of wings)
- Wing Front Profile x(x(number of wings)
- Wing Bottom Profile x(x(number of wings)
- Wing Top Profile x(x(number of wings)
- 4.8x50 mm Self-Drilling Screw x4 (S50) (single wing)
- 4.8x80 x2 (S80) (single wing)
- M10 Nut x2 (N10) (single wing)
- 7.5x100 mm Buldex Screw x12 (BX100)

Assembly Stages

1. Put the 45° angle wing front profile on the ground, place the wing top and wing bottom profiles on the connection corner bracket on the wing front profile. **Figure-1**

ATTENTION! If heel sensor is available in the system, assemble the wing back profile with hollows to wings bottom part.

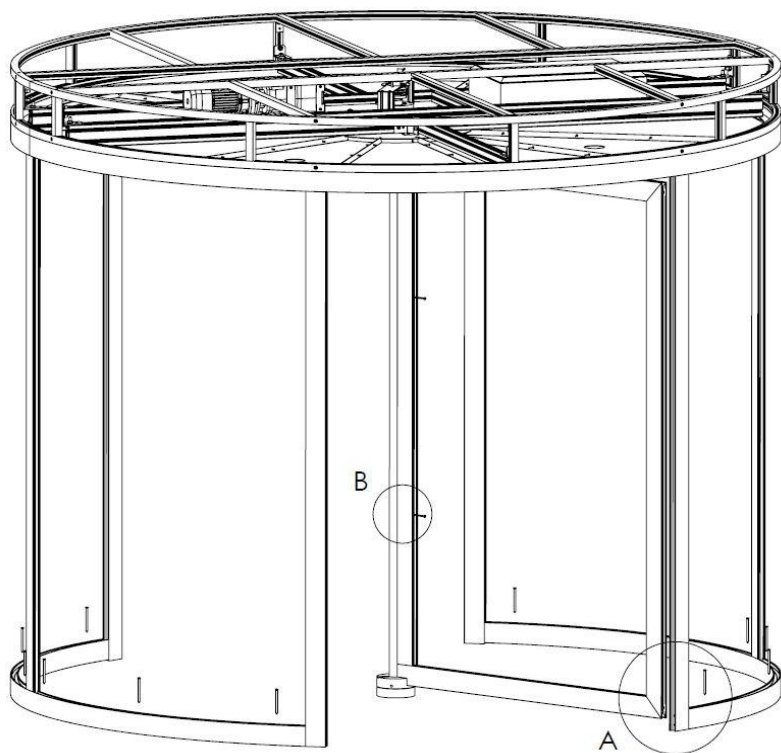
2. Connect the wing rear profile with the wing top and wing bottom profiles, using 4,8x50 mm self-drilling screws (**S50**). **Figure-1**
3. Slide the wing in through the rods on the core set. **Figure-2**

POST-ASSEMBLY VIEW

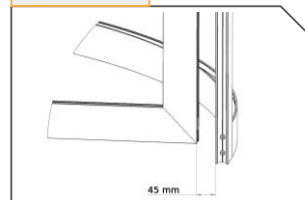


9. WING INSTALLATION & FIXING THE REVOLVING DOOR TO THE FLOOR

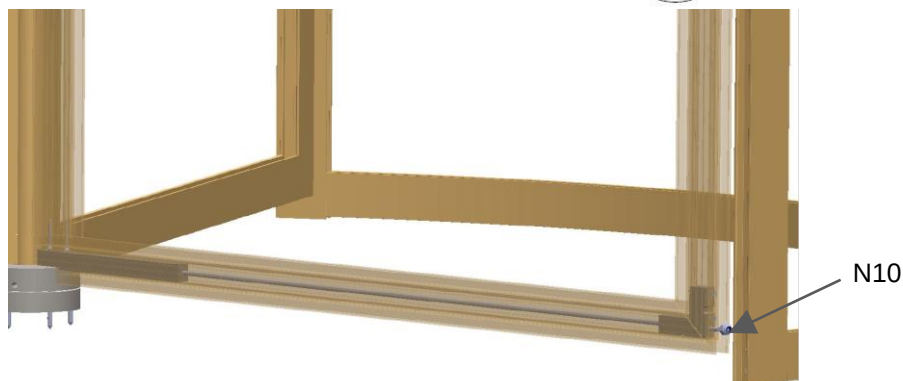
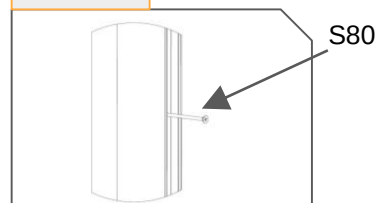
PRE-ASSEMBLY VIEW



DETAIL A



DETAIL B



Assembly Stages

1. Fix the wing front profile and tighten the rods with M10 nut (**N10**).
2. Fix the rear profile, using two 4.8x80 mm self-drilling screws (**S80**), to the Ø50 center pipe. **As shown in DETAIL B.**

ATTENTION! If heel sensor is available in the system, when inserting the wings to stems, pass the cables that are in the aluminum pipes bottom part hollows through hollows of back profile. Assemble this cable with the heel sensor cable located on the wing bottom profile.
3. After one wing is assembled, level the base and pillar profiles by rotating the door so that the distance between the wing and base profile is **45 mm. DETAIL A**
4. Fix the base to the floor using 7.5x100 mm bulldox screws (**BX100**).
5. Assemble the other wings in the same way.

POST-ASSEMBLY VIEW



10. POSITIONING & FIXING THE WINGS

PRE-ASSEMBLY VIEW

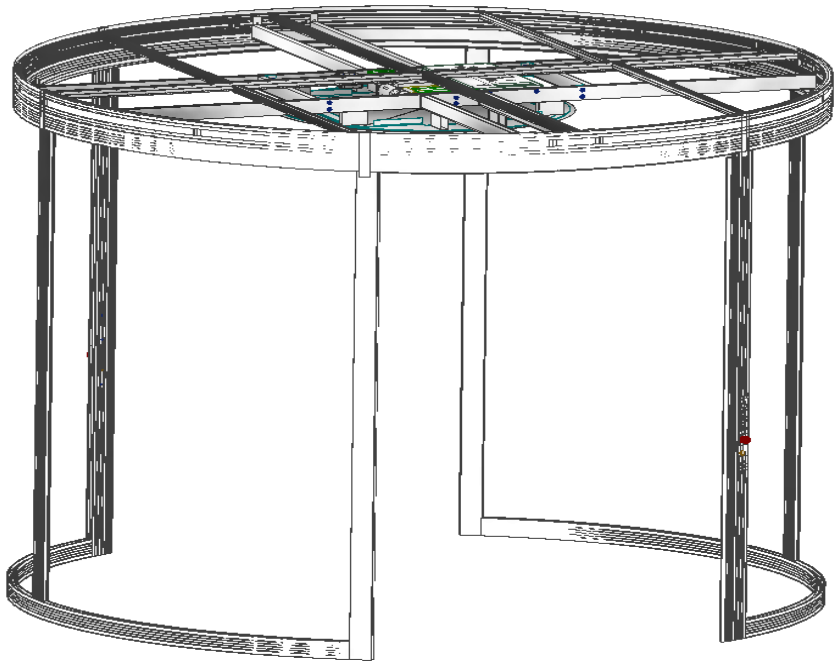
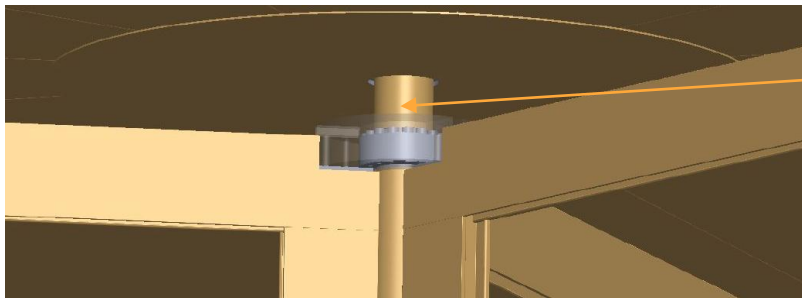


Figure-1



Adapter Axis Shaft

Figure-2

Assembly Stages

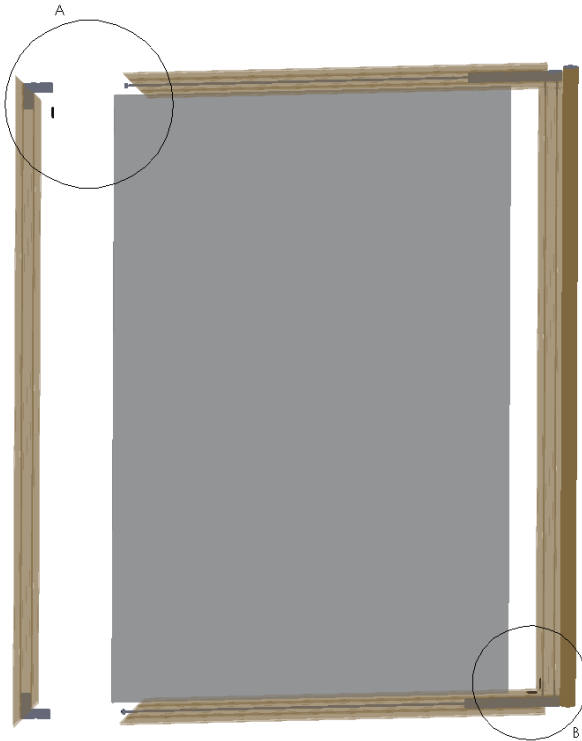
1. Center one of the wings to the left entrance pillar and keep it fixed. **Figure-1.**
1. Fix to the Ø50 center pipe by tightening the lock bearing in the top core set. **Figure-2.**

POST-ASSEMBLY VIEW

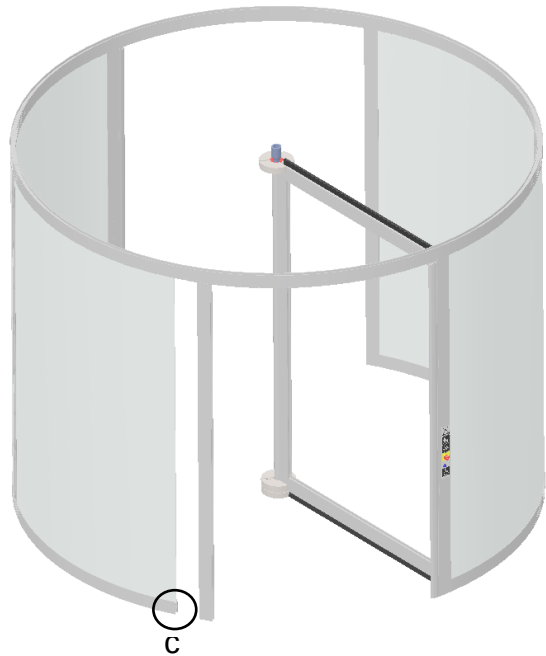


PRE-ASSEMBLY VIEW

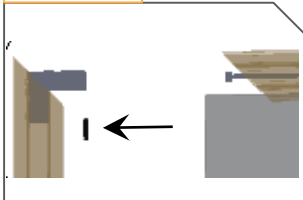
ASSEMBLING FLAT GLASSES



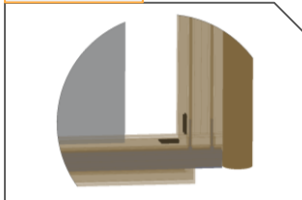
ASSEMBLING CURVED GLASSES



DETAIL A



DETAIL B



DETAIL C



Materials List

- Flat Glass x(number of wings)
- Curved Glass
 - x4(<Ø3200)
 - x8(>Ø3200)
- Glass Wedge x33
- Glass Gaset

Assembly Stages

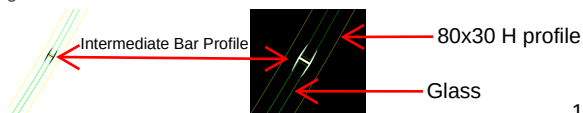
Flat Glasses;

1. Loosen and remove the M10 nuts of the 45° angle wing front profiles.
2. Slide the flat glasses into the profiles by inserting glass wedges as in **DETAIL A** and the crossed to corner. **DETAIL B**
CAUTION! Wedge the glass so that the weight of the glass will be exerted at the center of gravity.
3. Replace and tighten the 45° degree wing front profiles.
4. Tighten the glasses in the profiles using glass seals.

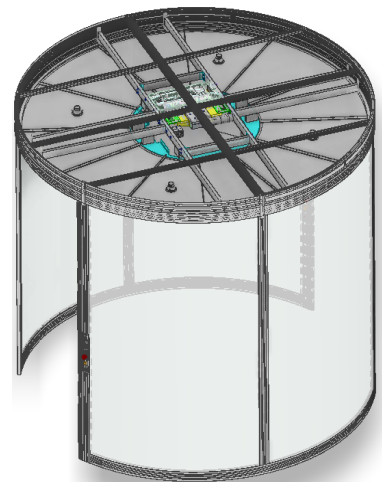
Curved Glasses;

1. Loosen and remove the entrance pillar profiles.
2. Slide the curved glasses into the profiles by placing glass wedges at the bottom side. **DETAIL C**
3. Replace and tighten the entrance pillar profiles.
4. Tighten the glasses in the profiles using glass seals.

NOTE: In case the revolving door diameter is larger than 3200 mm, the number of curved glasses will be 8 and the intermediate bar profiles will be 6. One intermediate bar profile will be placed between each curved glass.



POST-ASSEMBLY VIEW



12. ASSEMBLY INSERTING BUTTON CAPS

PRE-ASSEMBLY VIEW

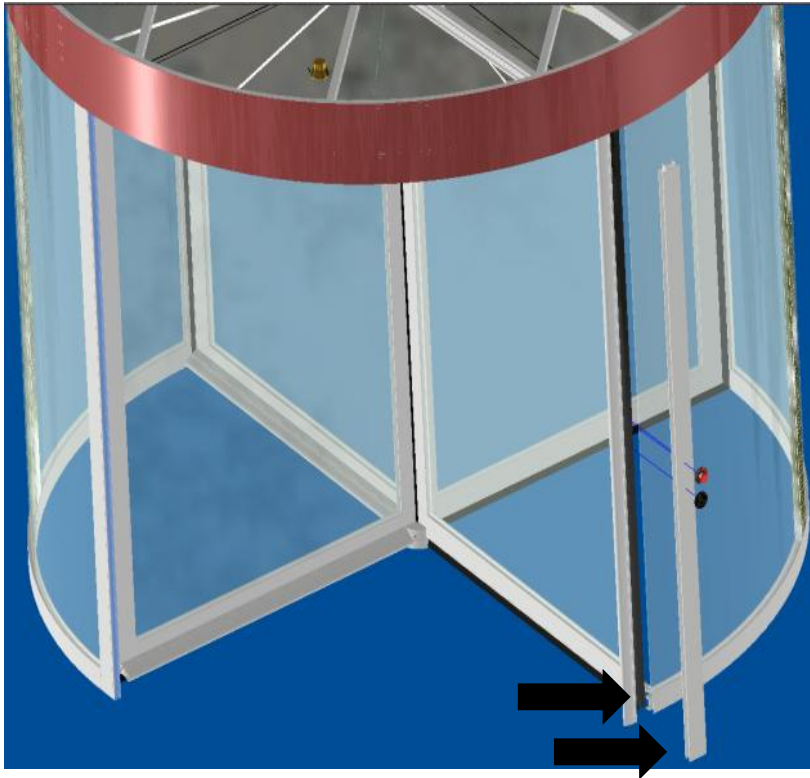


Figure - 1

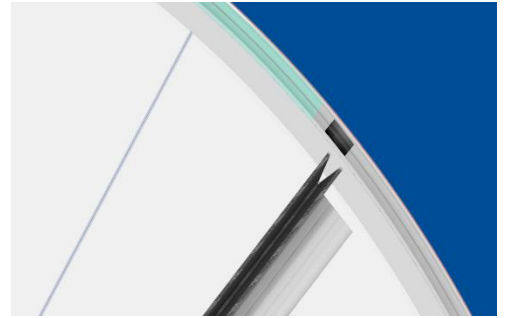


Figure - 2

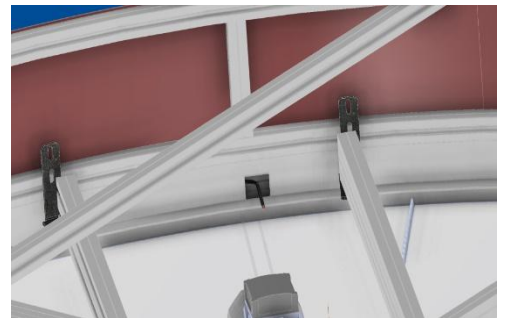
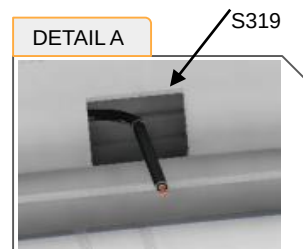


Figure - 3

Material List

- Entrance Pillar Profile with Button x2
- Entrance Pillar Profile Straight x2
- 4.8x100 mm Self-Drilling Screw x2



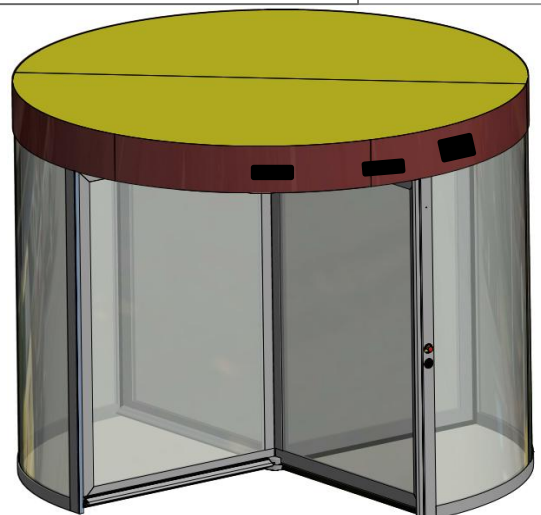
Assembly Stages

1. Fixed the Entrance Pillar Profile(with Button) using 4.8x100 mm self drilling screws. **As shown in FIGURE – 1.**
2. Repeat same procedure for Entrance Pillar Profile(Straight), too.

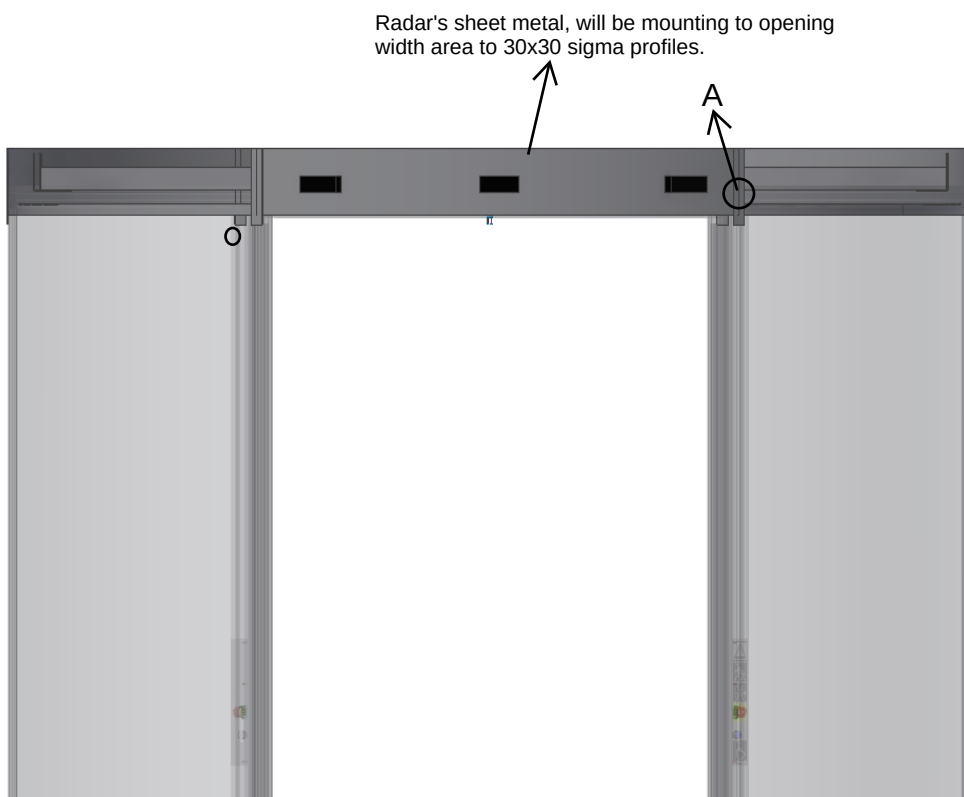
NOTE: The entrance pillar profile(with button) must be fixed to the notched side. **As shown in FIGURE – 2.**

3. Pass the cables through of the notch. **As shown in DETAIL A.**

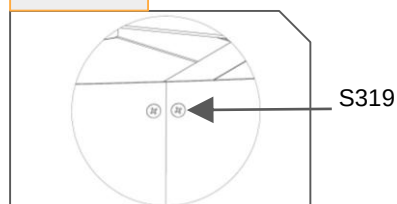
POST-ASSEMBLY VIEW



PRE-ASSEMBLY VIEW



DETAIL A



POST-ASSEMBLY VIEW



Material List

- 1.5 mm Frontal Plate with Radar x2
- 1.5 mm Frontal Plate Straight
for **3 Wings** x4
for **4 Wings** x2
- 3.9x19 mm Self-Drilling Screw
for **3 Wings** x24 (S319)
for **4 Wings** x16 (S319)

Assembly Stages

1. Place the frontal plate with radar so that the corners will be centered to the entrance pillars and the bottom side will be zeroed with the bottom part of the canopy.
2. Fix through the holes on the frontal plates using 3.9x19 mm self-drilling screws (**S319**). **As Shown in DETAIL A.**
3. Respectively, install the other frontal plates.

14. MANUAL NIGHT TIME CLOSER (EXTERNAL)

PRE-ASSEMBLY VIEW

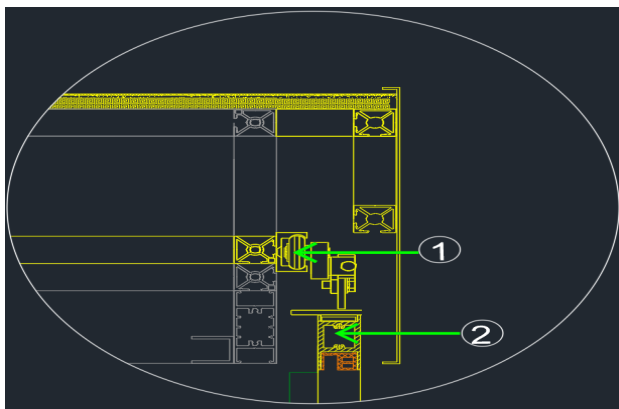


FIGURE - A



Assembly Stages

1. Hang the door leaf (2). Use the adjusting screw (1) to adjust the door leaf to the correct height.
2. Align the height on the basis of the brush height. Check whether the door leaf moves smoothly.
3. Adjust the spaces between the night-time closer and the side element. Align both door leaves in the closed position at the top and bottom so that the spaces at the top and bottom is the same.
4. Screw the leaf tight and close the doors correctly. It must be as shown in **FIGURE A**.

NOTE:

- The floor guide for the night-time closer depends on the size. Observe the drawing.
- Emergency stop button and lock are ready fixed on Night Time Closer Leaf.

Material List

- Night Time Closer Leaf x2

POST-ASSEMBLY VIEW



PRE-ASSEMBLY VIEW

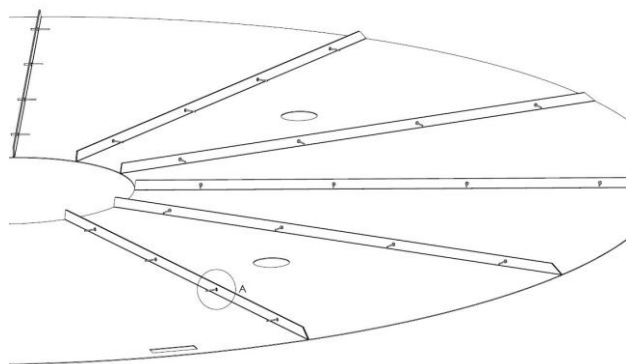


Figure-1

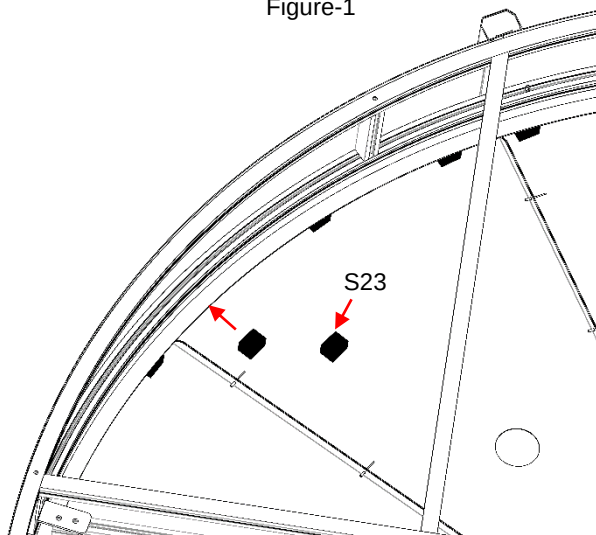
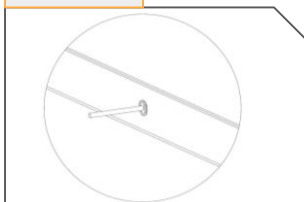


Figure-2

DETAIL A



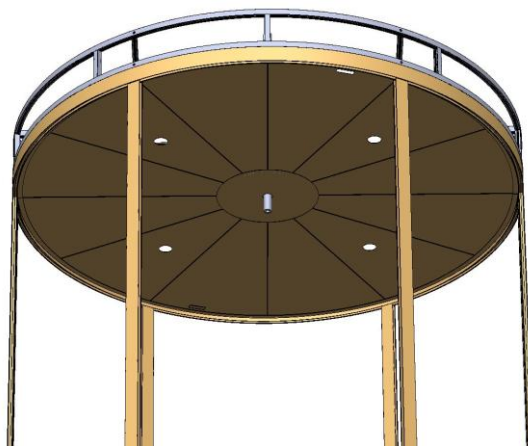
Material List

- Sectional Plate – with Presence Sensor x2
- Sectional Plate – with Spot Hole x4
- Sectional Plate – Straight x6
- Rivet x48
- Compression Wick x50

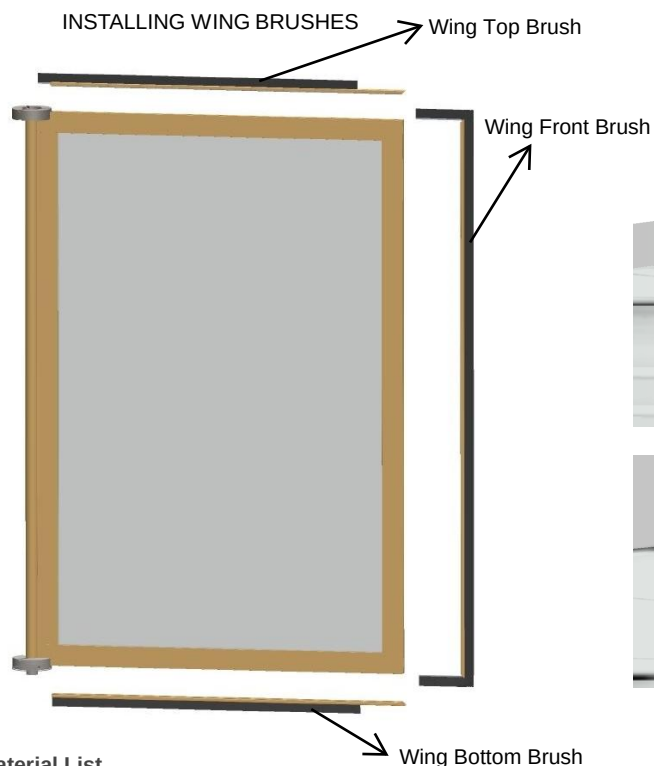
Assembly Stages

1. Rivet and line up the sectional plates to each other respectively, starting with the sectional plate with presence center, using a rivet gun. **As shown in DETAIL A.**
2. Position the sectional plate with presence center by centering it to the right entrance pillar profile as shown in the Figure and tighten and fix into the U profile with seals. **(S23)**

POST-ASSEMBLY VIEW



PRE-ASSEMBLY VIEW



Material List

- Wing Top Brush x(number of wings)
- Wing Bottom Brush x(number of wings)
- Wing Front Brush x(number of wings)
- Left Entrance Seal x2
- Right Hand Seal with Sensor x2
- Entrance Top Seal x2



Sensor Seal



Entrance Seal

Assembly Stages

Assembling Wing Brushes;

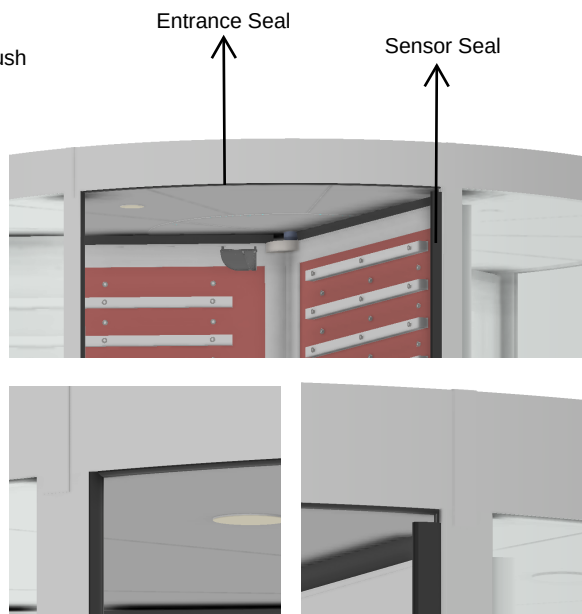
1. Insert the wing bottom and top brushes first.
2. Insert the wing front brush into the wing profiles by passing the end points from inside the wing bottom and wing top brush strips.

CAUTION! Make sure that the brush stripes are fully inserted in place.

Assembling entrance seals;

1. First insert and tighten the entrance top profile into the twisted top base profiles.
2. Insert the left entrance seal into the left entrance pillar profile.
3. Pass the connection cable of the hand seal with sensor through the hole on the twisted top base and seal strip into the right entrance pillar. **DETAIL-A**

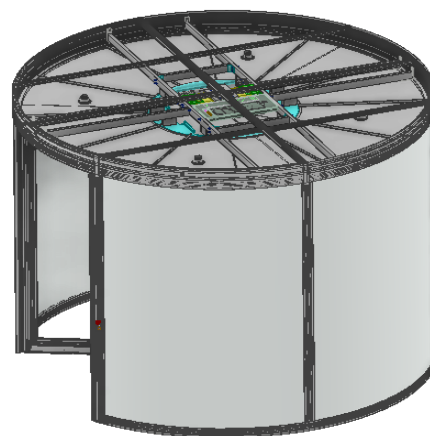
INSTALLING ENTRANCE GASKETS



DETAIL A



POST-ASSEMBLY VIEW



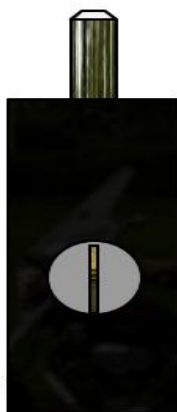
PRE-ASSEMBLY VIEW



FIGURE-A



STEP-1



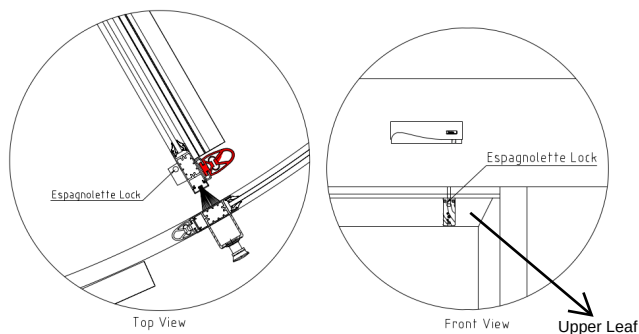
STEP-2



STEP-3



STEP-4



Position of Manual Lock

Once the leaf is positioned correctly, it will be mounted on upper leaf, at the same position switch will be mounted inside of the ceiling panels.

Assembly Stages

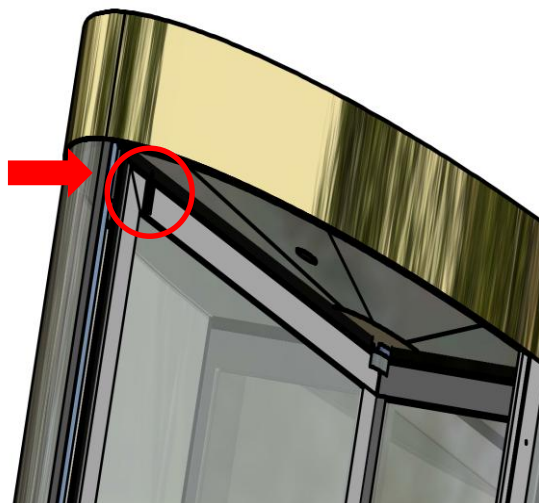
1. Cut the behind cylindrical profile. It must be **as shown in Step – 1.**
2. Align the the revolving door' wing.
3. Align the lock to top wing profile and fixed using 3.9x100 mm self-drilling screws. **As shown in Step – 2.**
4. Remove the nut. **As shown in Step – 3.** And open a hole to sectional plate.
5. Place the piece you removed to sectional plate. **As shown in Step – 4.**
6. Reassemble the parts you removed using nut.

NOTE: The cable coming from the Lock Sensor must be inserted into the "COM" and "NO" pins.

Material List

- Safety Lock x1

POST-ASSEMBLY VIEW



PRE-ASSEMBLY VIEW



FIGURE - 1



FIGURE - 2

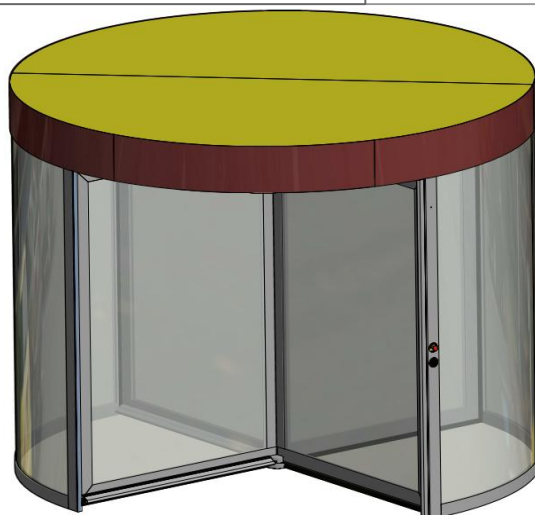
Material List

- Top Roof Steel Sheet x2

Assembly Stages

1. Ensure leak-tightness of the top roof steel sheet plate that remains outside, by applying silicon at an angle of 45° to the place of connection to the frontal plates.
2. Use silicone from corners.
3. Fix the top roof steel sheet place remaining in the indoor area by 3.9x19 mm self-drilling screws (**B319**)

POST-ASSEMBLY VIEW



Germany

GEZE Sonderkonstruktionen GmbH
Planken 1
97944 Boxberg-Schweigern
Tel. +49 (0) 7930-9294-0
Fax +49 (0) 7930-9294-10
E-Mail: sk.de@geze.com

GEZE GmbH
Niederlassung Süd-West
Tel. +49 (0) 7152-203-594
E-Mail: leonberg.de@geze.com

GEZE GmbH
Niederlassung Süd-Ost
Tel. +49 (0) 89-120 07 42-50
E-Mail: garching.de@geze.com

GEZE GmbH
Niederlassung Ost
Tel. +49 (0) 30-47 89 90-0
E-Mail: berlin.de@geze.com

GEZE GmbH
Niederlassung Mitte/Luxemburg
Tel. +49 (0) 6171-63610-0
E-Mail: frankfurt.de@geze.com

GEZE GmbH
Niederlassung West
Tel. +49 (0) 201-83082-0
E-Mail: essen.de@geze.com

GEZE GmbH
Niederlassung Nord
Tel. +49 (0) 40-2 19 07 16-13
E-Mail: hamburg.de@geze.com

GEZE Service GmbH
Tel. +49 (0) 18 02/92 33 92
E-Mail: service-info.de@geze.com

Austria

GEZE Austria
E-Mail: austria.at@geze.com
www.geze.at

Baltic States

GEZE GmbH Baltic States office
E-Mail: office-latvia@geze.com
www.geze.com

Benelux

GEZE Benelux B.V.
E-Mail: benelux.nl@geze.com
www.geze.be
www.geze.nl

Bulgaria

GEZE Bulgaria - Trade
E-Mail: office-bulgaria@geze.com
www.geze.bg

China

GEZE Industries (Tianjin) Co., Ltd.
E-Mail: Sales-info@geze.com.cn
www.geze.com.cn

GEZE Industries (Tianjin) Co., Ltd.
Branch Office Shanghai
E-Mail: chinasales@geze.com.cn
www.geze.com.cn

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Branch Office Beijing
E-Mail: chinasales@geze.com.cn
www.geze.com.cn

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GEZE France S.A.R.L.
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www.geze.fr

Hungary

GEZE Hungary Kft.
E-Mail: office-hungary@geze.com
www.geze.hu

Iberia

GEZE Iberia S.R.L.
E-Mail: info@geze.es
www.geze.es

India

GEZE India Private Ltd.
E-Mail: office-india@geze.com
www.geze.in

Italy

GEZE Italia S.r.l.
E-Mail: italia.it@geze.com
www.geze.it

GEZE Engineering Roma S.r.l.
E-Mail: roma@geze.biz
www.geze.it

Poland

GEZE Polska Sp.z o.o.
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GEZE Romania S.R.L.
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Russia

OOO GEZE RUS
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www.geze.se

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GEZE Scandinavia AB avd. Norge
E-Mail: norge.se@geze.com
www.geze.no

Scandinavia – Finland

Branch office of GEZE
Scandinavia AB
E-Mail: finland.se@geze.com
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Scandinavia – Denmark

GEZE Danmark
E-Mail: danmark.se@geze.com
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Switzerland

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GEZE Ukraine TOV
E-Mail: office-ukraine@geze.com
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United Arab Emirates

GEZE Middle East
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www.geze.ae

United Kingdom

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E-Mail: info.uk@geze.com
www.geze.com