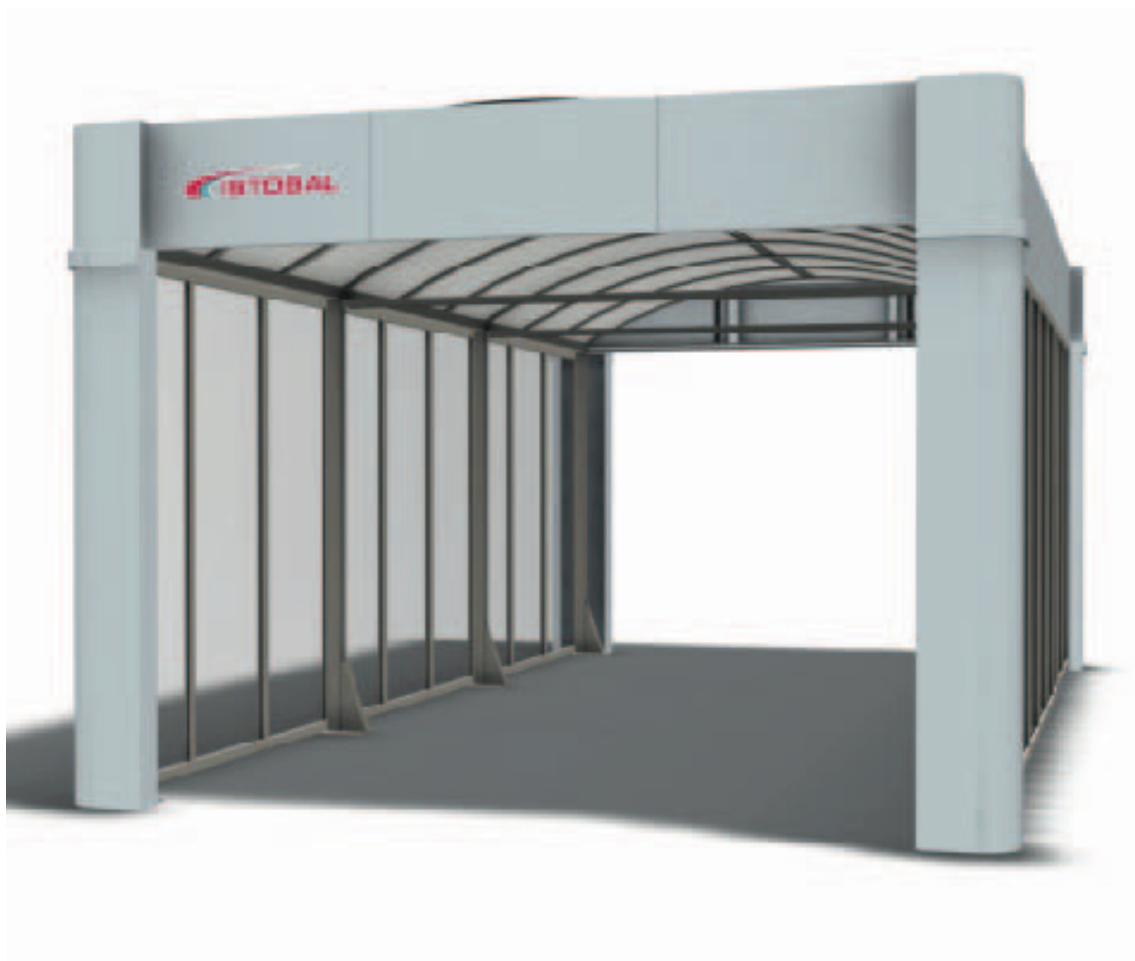


CLASSIC ENCLOSURE



Documentación I+D+i V_12_18

ISTOBAL

ORIGINAL MANUAL



ISTOBAL, S.A. • Avda. Conde del Serrallo, 10 • 46250 L'Alcúdia (Valencia - España)
Teléfono 96 299 79 40 • Fax 96 299 79 91 • E-mail: istobal@istobal.com • www.istobal.com

ASSEMBLY MANUAL

34UH200B

GB

CLASSIC ENCLOSURE ASSEMBLY MANUAL

ISTOBAL, S.A.

VAT no.: A46011276

Conde del Serrallo, 10

46250 L'Alcúdia (Valencia - Spain)



+34 962 997 940 .



+34 962 997 991

Email: istobal@istobal.com • www.istobal.com

1. SAFETY	4
1.1. SAFE PRACTICE AND SAFETY RULES	4
1.1.1. PREVENTIVE MEASURES	4
1.1.2. CONDUCT ON SITE	4
1.2. PROTECTION EQUIPMENT	5
2. BAY PREPARATION	8
2.1. CHECK CIVIL WORKS	8
2.2. POST DISTRIBUTION AND LEVELLING	9
2.3. INSTALLATION OF GUTTERS AND PROFILES	10
2.4. ARCHES AND POLYCARBONATE PLATES	11
2.5. ROOF AND FRONT REINFORCING BARS	11
3. ENCLOSURE STRUCTURE	12
3.1. DETAIL: POST ANCHORING	13
3.2. DETAIL: POST-GUTTER JOINT	13
3.3. DETAIL: ROOF FIXATION	14
3.4. DETAIL: ROOF FIXATION	14
3.5. DETAIL: GUTTER FIXATION	15
4. FASCIAS	16
4.1. DETAIL: FASCIA FIXATION	17
4.2. DETAIL: FASCIA FIXATION	17
4.3. DETAIL: CORNER FIXATION	18
5. SIDE PARTITIONS	19
5.1. PARTITION FIXATION, BOTTOM	20
5.2. PARTITION FIXATION, TOP	20

1. SAFETY

1.1. SAFE PRACTICE AND SAFETY RULES

To guarantee your safety, please cooperate with the company at all times and obey the safety rules detailed here to help ensure that accidents are avoided. The following list of obligations shall be respected by all workers carrying out work whether directly employed by ISTOBAL or subcontracted.

- Please make proper use of the personal protection equipment provided.
- Follow the instructions of your superiors, and any indications given by the person responsible for the facility.
- Keep tools and personal and collective protection equipment in good order. If you observe any deterioration in them, advise your superior immediately.
- Keep the work site clean and tidy.
- Advise your superiors and colleagues of any danger or risk that you perceive on the facility. In case of serious and imminent risk, do as indicated above while also ceasing to perform any activity which may add to such risk.

1.1.1. PREVENTIVE MEASURES

ISTOBAL personnel and workers subcontracted by the company are to take into account the following preventive measures while carrying out work:

- For work where use of a scaffold is not physically possible or where its use would be an added risk, a platform step ladder is to be used.
- If a certified scaffold is used, follow the manufacturer's assembly instructions closely. Make sure it is in perfect condition before use. Do not place it near power lines. If the scaffold is moveable, put the brakes on all the wheels and use securing bars to stop it moving unexpectedly. Do not move the scaffold with workers on it. Do not leave tools or materials lying around on the scaffold.
- All the parts that can be assembled on the floor should be assembled at ground level so as to avoid working at height, which is more difficult and more dangerous.
- If a platform step ladder is used, it must only be used by duly trained and authorised personnel. Make sure that it is used in accordance with the instructions supplied with it.
- All waste generated is to be collected and removed from the work area as and when it is generated. The work area should be kept as clean as possible at all times.
- Make sure the work area is organised - do not leave materials and tools lying around as these could cause accidents.
- When materials are being loaded and unloaded with winches / cranes; materials are being lifted; heavy parts are being mounted, etc., make sure there are no workers underneath. Check this before starting to move anything.
- During the installation and before drilling in the work area, make sure no damage is caused to the pipework under the slab.

1.1.2. CONDUCT ON SITE

- Station your vehicle in designated parking zones. Turn off the engine. Parking is not permitted in classified areas or where the vehicle would obstruct the passage of persons or vehicles.
- Inform the supervisor or person responsible for the facility of the presence of the vehicle and why it is there.
- Before starting work, put up signs and cordon off the areas where you will be setting up equipment such as winches, compressors, etc.
- After the work is completed, remove leftover waste from the work area, such as plastic, cardboard, wood, etc.
- Collect your tools and other equipment.
- Inform the Supervisor or person responsible for the facility that the work is completed and what the situation is now.

1.2. PROTECTION EQUIPMENT

Personal and collective protection equipment used should be appropriate to the task, certified with the **CE** marking, and display the corresponding inspection dates.

Personal protection equipment should give effective protection against the risks they are intended for. Such equipment should not constitute a risk in itself nor cause unnecessary inconvenience. The equipment should:

- Respond to the conditions existing in the workplace.
- Take into account the anatomy, physiology, and state of health of the operator.
- Fit the bearer properly after the pertinent adjustments.
- Where multiple risks are involved which require several types of personal protection equipment to be used together, they should be mutually compatible and maintain their level of efficiency in relation to the corresponding risk or risks.

PERSONAL PROTECTION EQUIPMENT

COMPULSORY PROTECTION

SAFETY FOOTWEAR.

Mechanical protection, waterproof and with a dielectric sole, anti-slip, and anti-perforation protection.



HIGH VISIBILITY REFLECTIVE VEST.



SAFETY HELMET.



SAFETY GLOVES.



OTHER PROTECTION DEPENDING ON THE WORK TO BE COMPLETED

TOOL BELT.



BACK SUPPORT BELT.

For tasks which require unusual positions to be adopted, or straining.



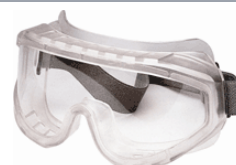
PERSONAL PROTECTION EQUIPMENT

SAFETY HARNESS.

For work at a height of 2 meters and above.

**HIGH IMPACT SAFETY GOGGLES.**

Use of drills, radial saws, etc.

**EAR PROTECTION.**

Use of drills, radial saws, etc.



COLLECTIVE PROTECTION EQUIPMENT

SAFETY TAPE AND CONES.

To indicate and cordon off the work area.

**NO ENTRY SIGN.**

To prevent unauthorized access, and sign indicating the need for PPE to be worn.

**PORTABLE FIRE EXTINGUISHER.****FIRE BLANKETS.**

For work generating heat (welding, radial saws, etc.).



	LIFTING LOADS WITH ANOTHER PERSON. Packages between 25 Kg and 50 Kg should be lifted by two operators. For tasks in which manual load handling cannot be avoided and mechanical aid is not possible, operators should not carry loads heavier than 25 Kg (1 operator) and 50 Kg (2 operators). People under 18 years and women shall not manually carry, transport or push loads over 15 kilos, or without mechanical aid. Pregnant women are not allowed to carry out these operations. These are maximum loads. Manual load handling shall be done in line with each individual operator's physical condition.
	WATCH THE CENTRE OF MASS WHEN LIFTING THE LOAD. The centre of mass should be as balanced as possible.
	USING A CRANE. Loads can be lifted using mechanical means (crane, forklift, etc.).
	USING A FORKLIFT. Loads can be lifted using a forklift.
	USING SCAFFOLDING. Using a scaffold is compulsory while working at height when a person's feet are at a level higher than 2 m.
	FALLING OBJECT HAZARD WHEN WORKING AT HEIGHT. Watch out for hanging parts or materials that may fall or crush.
	NO ENTRY. Inform people in the specific area that they are not allowed to enter the site to avoid accidents.
	DO NOT WORK WITH WINDS OVER 30 KM/H. This applies particularly when lifting loads.
	GENERAL DANGER. Beware of any possible risks during assembly tasks.



INFORMATION

- » Proceed with caution during assembly sequences. Warning signs are shown on the top right of the page.
- » All the parts that can be assembled on the floor should be assembled at ground level so as to avoid working at height, which is more difficult and more dangerous.



WARNING

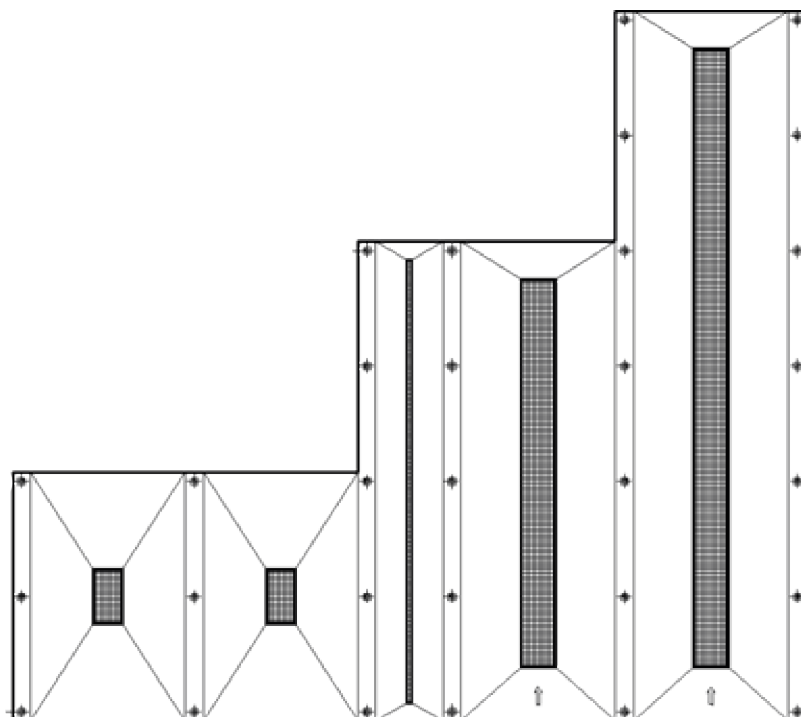
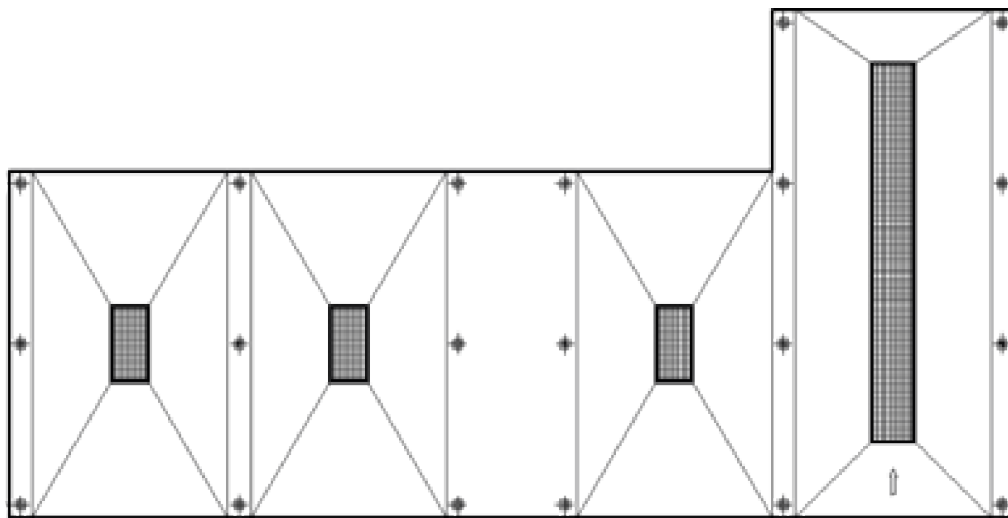
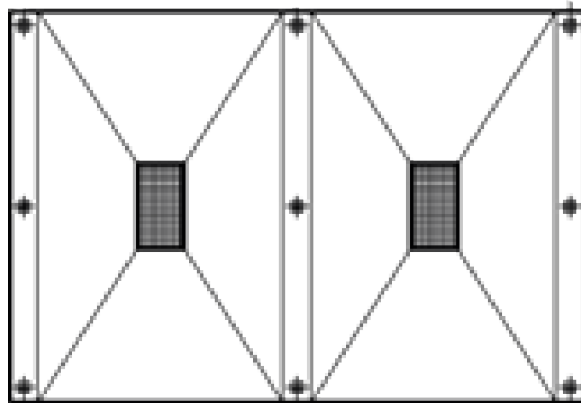
- » Assembly or disassembly must be performed solely by specialist technical engineers trained by ISTOBAL.

2. BAY PREPARATION

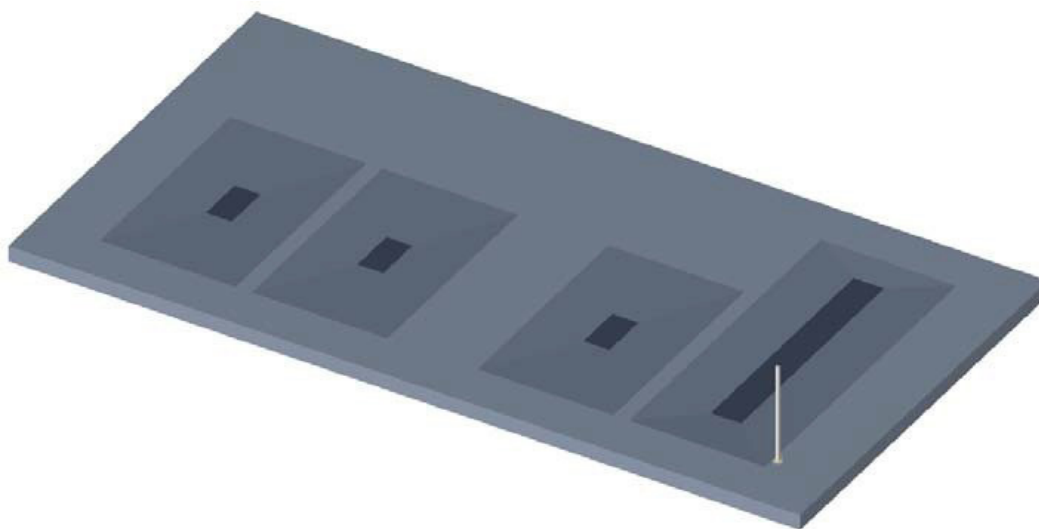
2.1. CHECK CIVIL WORKS

Check the civil works for the selected setup and the specific drawings.

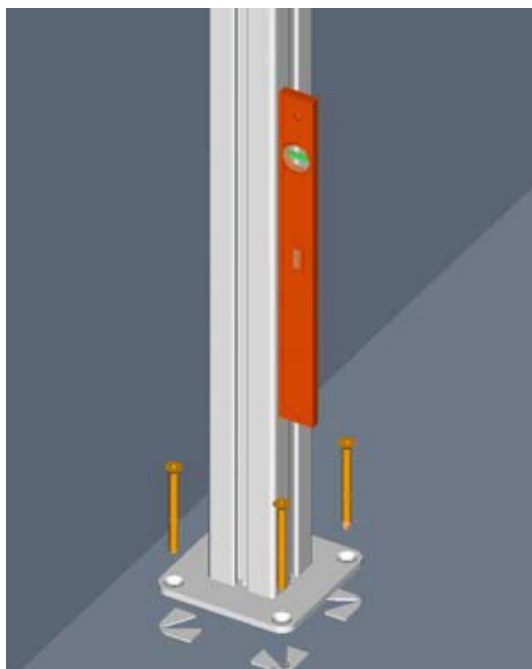
Setup examples: enclosures for jet wash stations and attached modules for rollovers and tunnels.



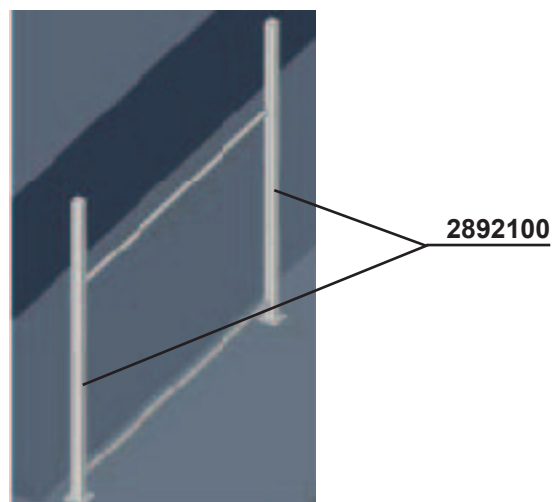
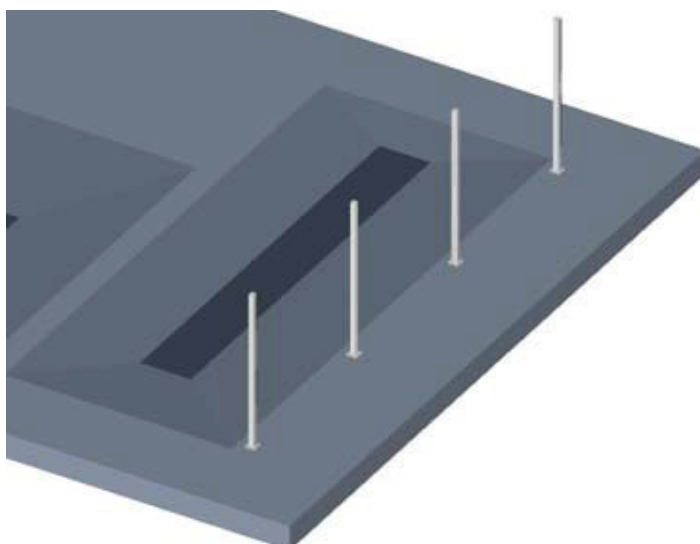
2.2. POST DISTRIBUTION AND LEVELLING



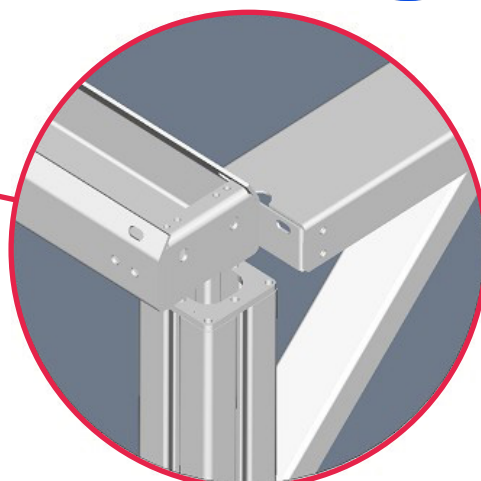
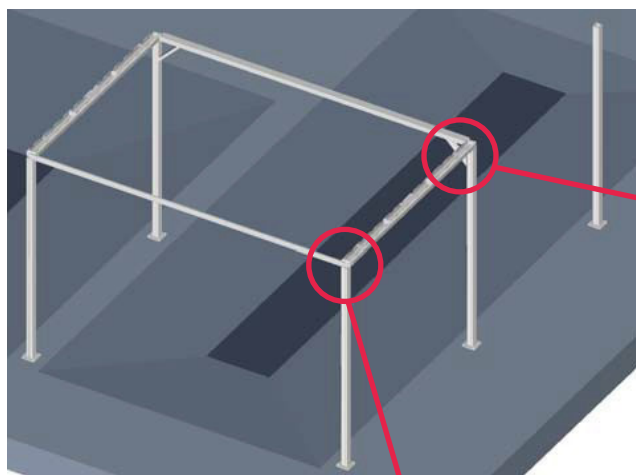
Install the first corner post. Secure it with the anchoring bolts and make sure it is levelled. If necessary, use levelling supplements 2747300 and 2747400.



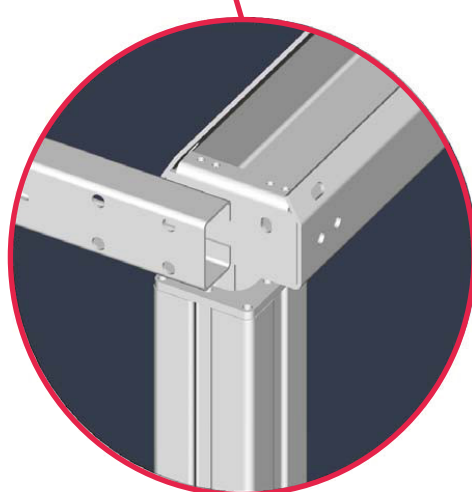
Arrange the next posts observing a 3200 mm distance between them. To confirm the distance, “Side profile - panels” ref. 2892100 can be used.



2.3. INSTALLATION OF GUTTERS AND PROFILES



Detail: assembly of supporting profile for tunnel/rollover enclosures

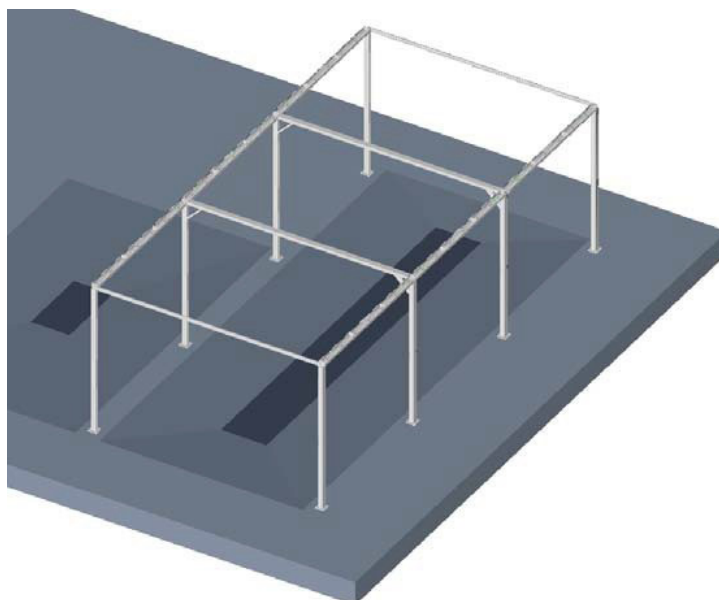


Detail: joining front profile with gutter and post

Lay out the remaining enclosure posts as per the distance specified in the civil works based on the width chosen (4800 mm or 4500 mm). Make sure the distance is right by assembling the front profile.

Mount the gutters and secure the supporting profiles between the posts.

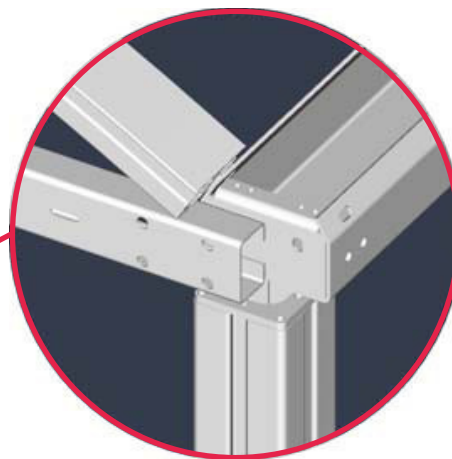
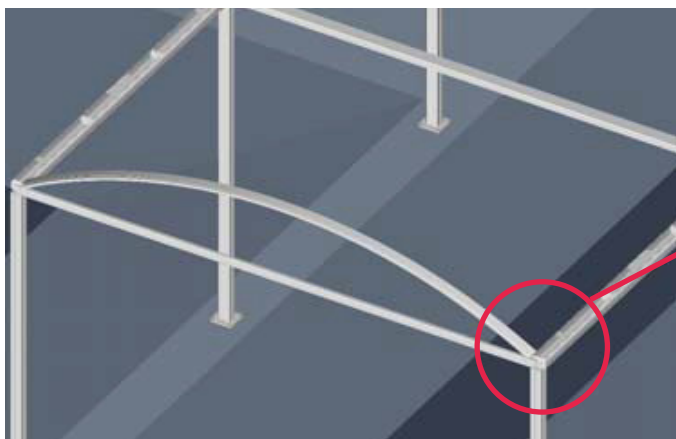
The brackets, ref.29210GL1, should only be fitted when optional extra ref.40098 (outer glazed partition) is also installed.



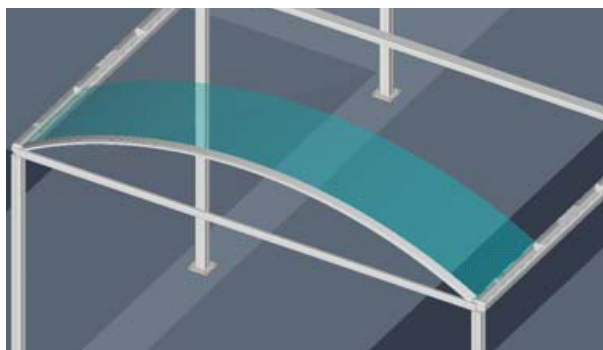
2.4. ARCHES AND POLYCARBONATE PLATES



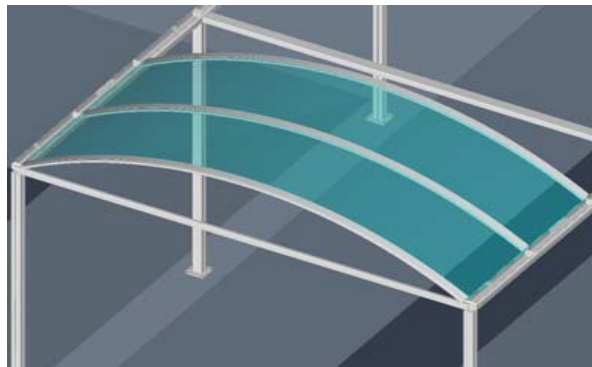
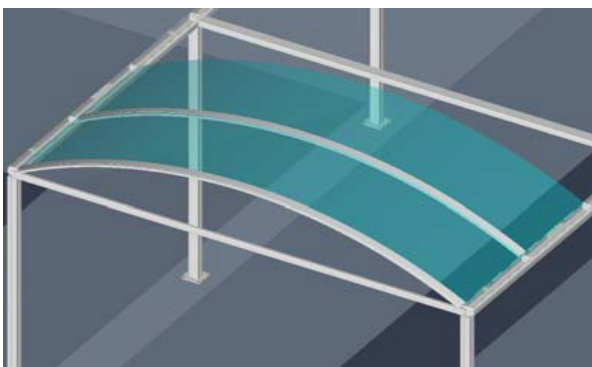
Mount the first arch.



Then mount the polycarbonate plate and fit the next arch.

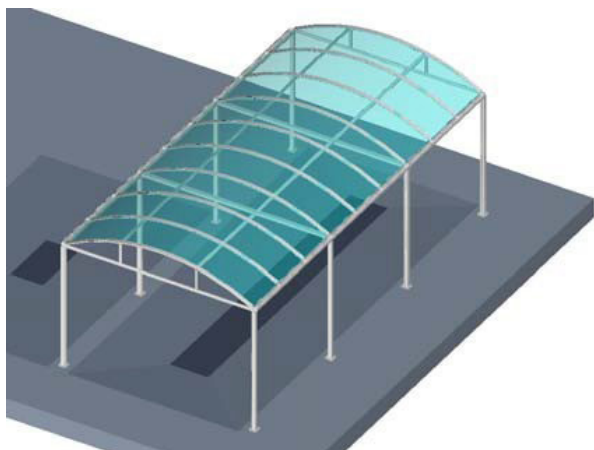


Continue adding arches and plates until you reach the enclosure end.



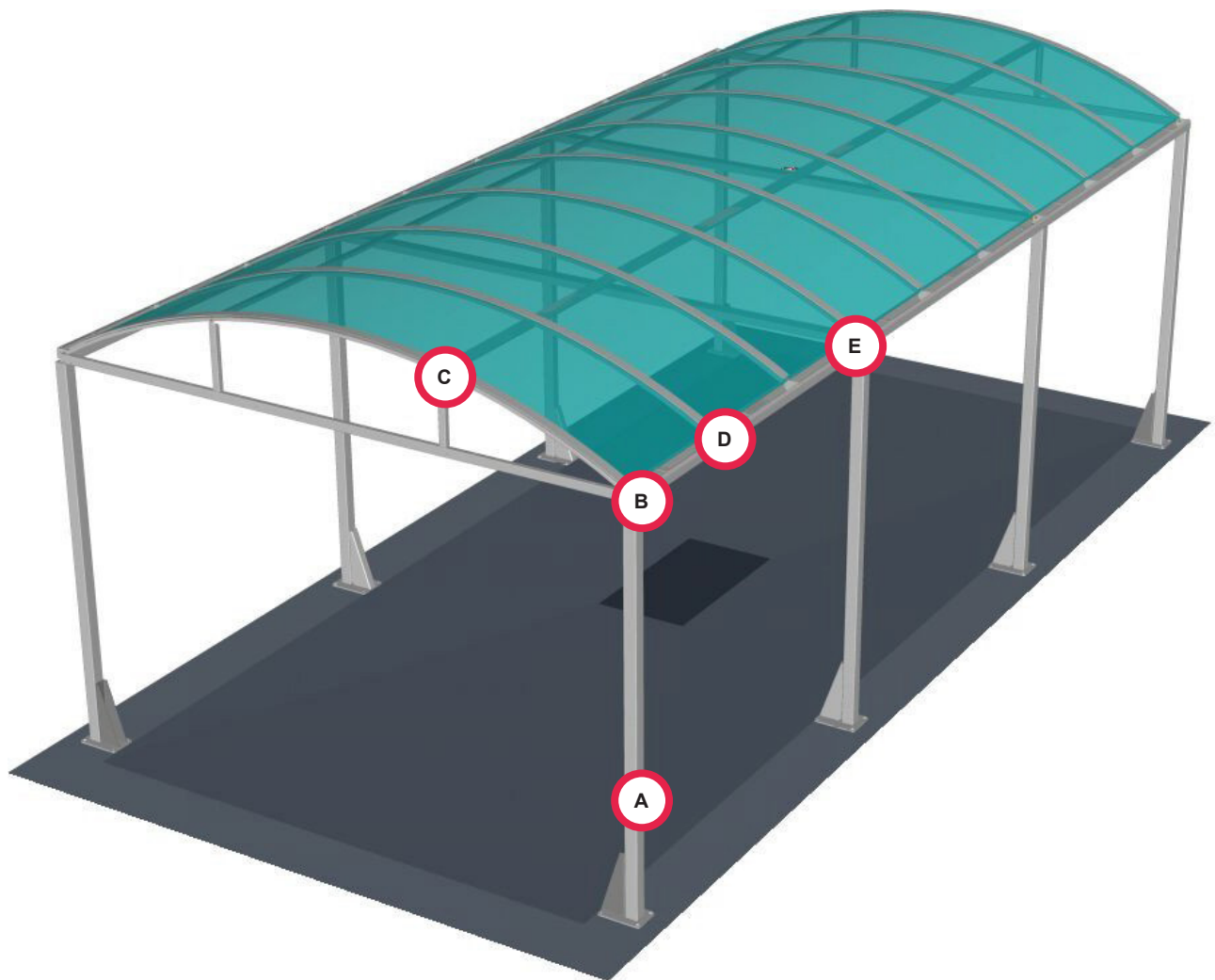
2.5. ROOF AND FRONT REINFORCING BARS

Next, mount the reinforcing bars.



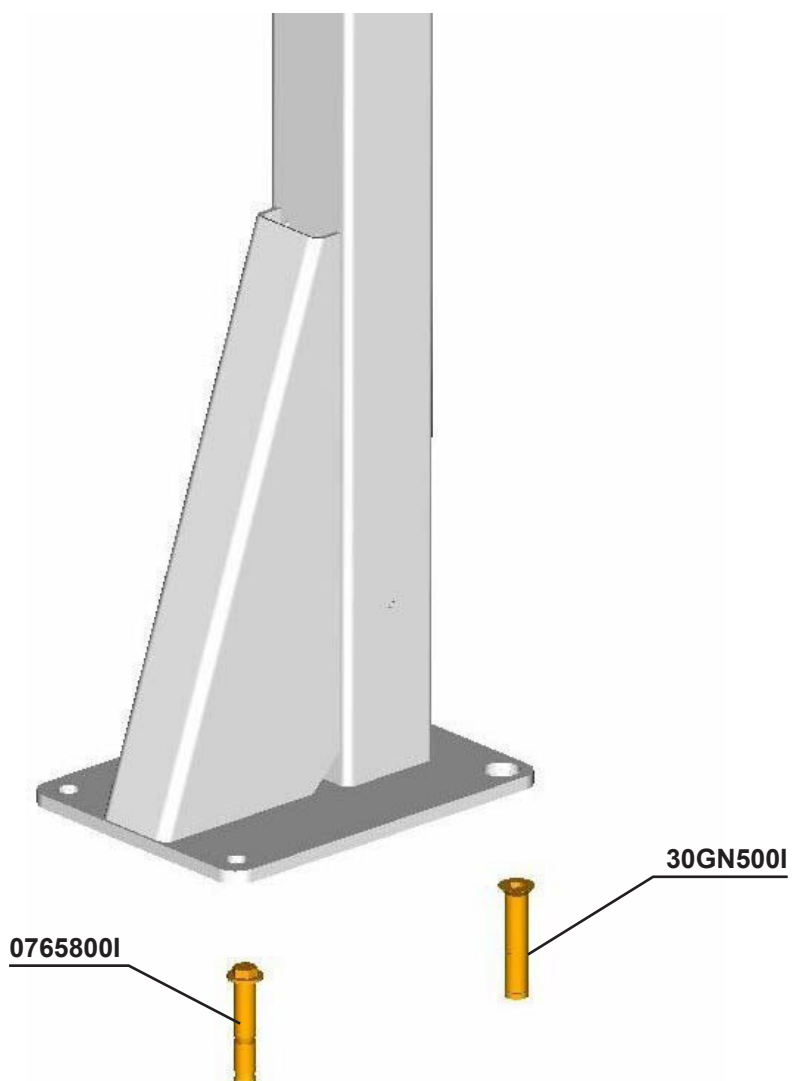
3. ENCLOSURE STRUCTURE

The enclosure structure is made of hot-dip galvanized steel, except for the roof arches -which are aluminium- and the roofing panels, made of cellular polycarbonate.

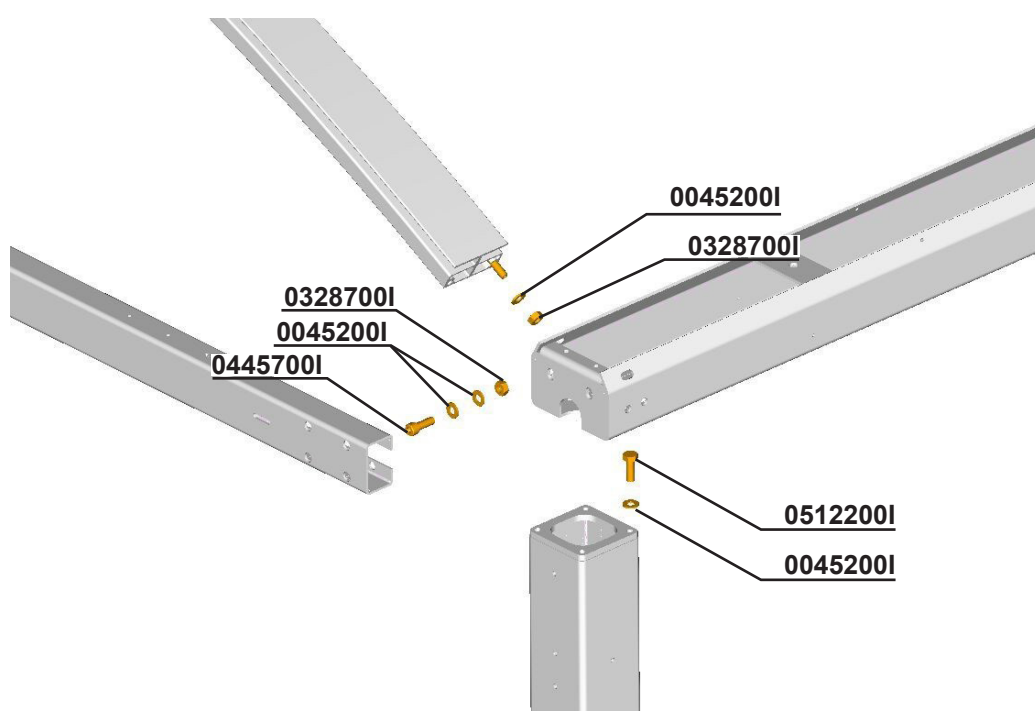


- A** Detail: post anchoring
- B** Detail: post-gutter joint
- C** Detail: roof fixation
- D** Detail: roof fixation
- E** Detail: gutter fixation

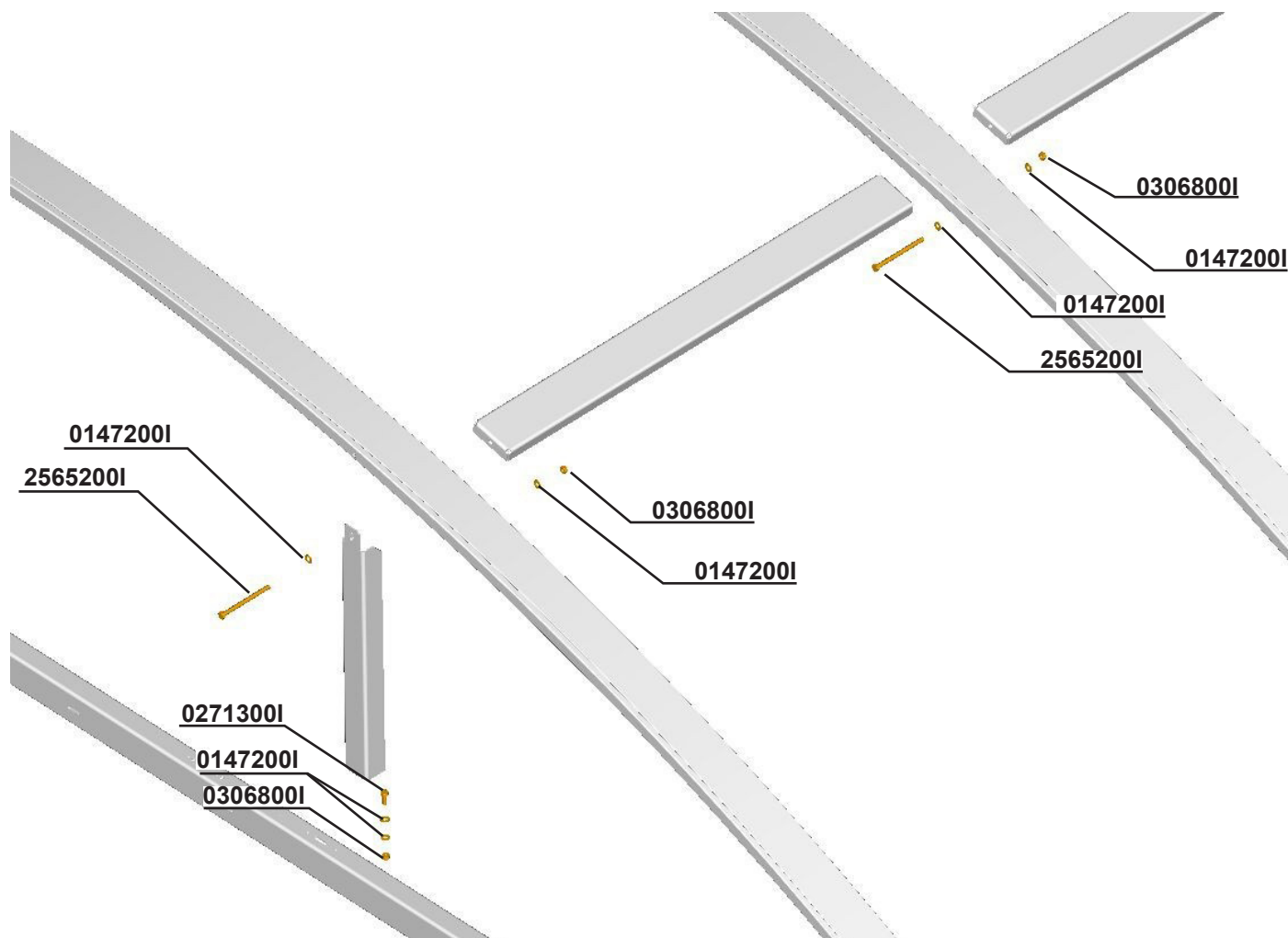
3.1. DETAIL: POST ANCHORING



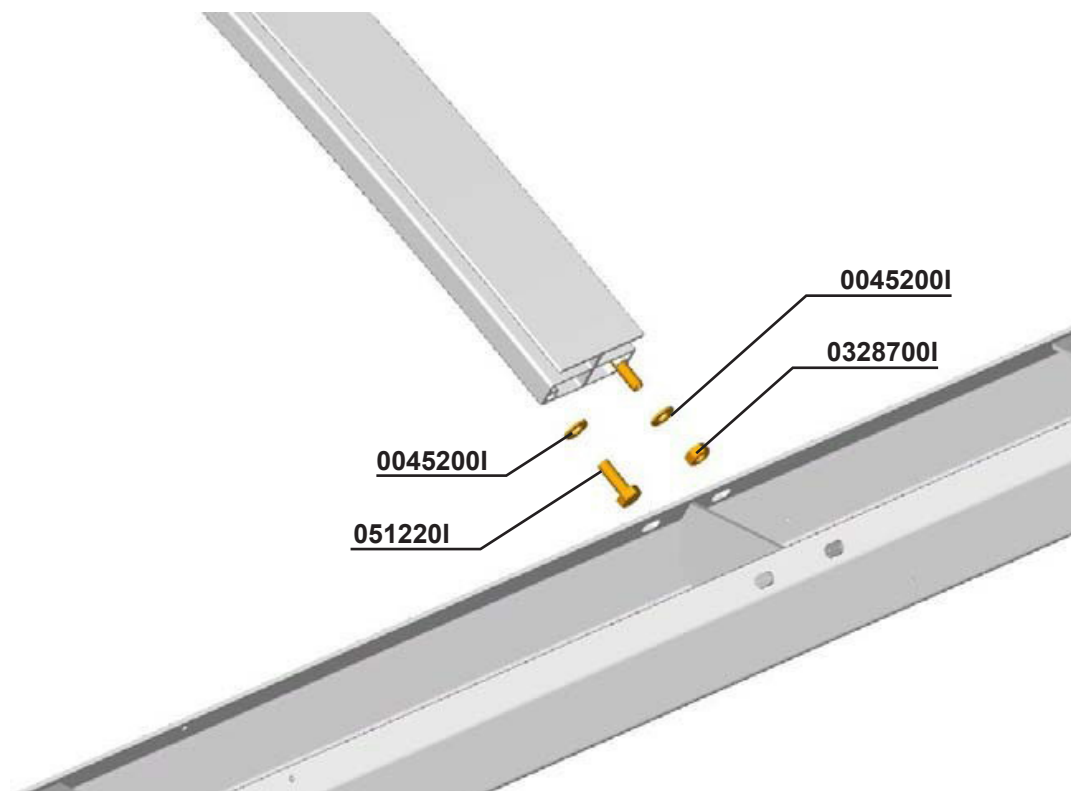
3.2. DETAIL: POST-GUTTER JOINT



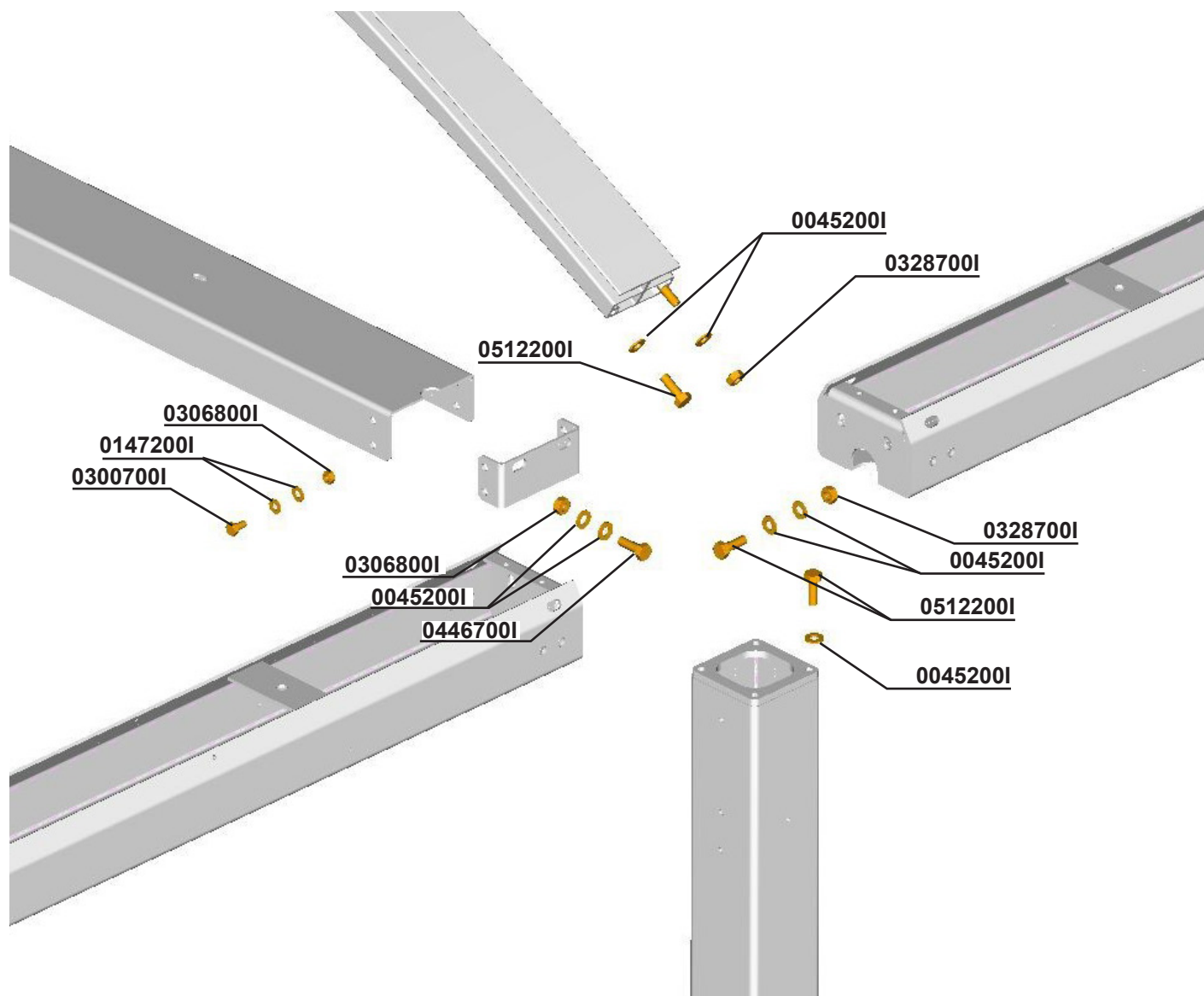
3.3. DETAIL: ROOF FIXATION



3.4. DETAIL: ROOF FIXATION

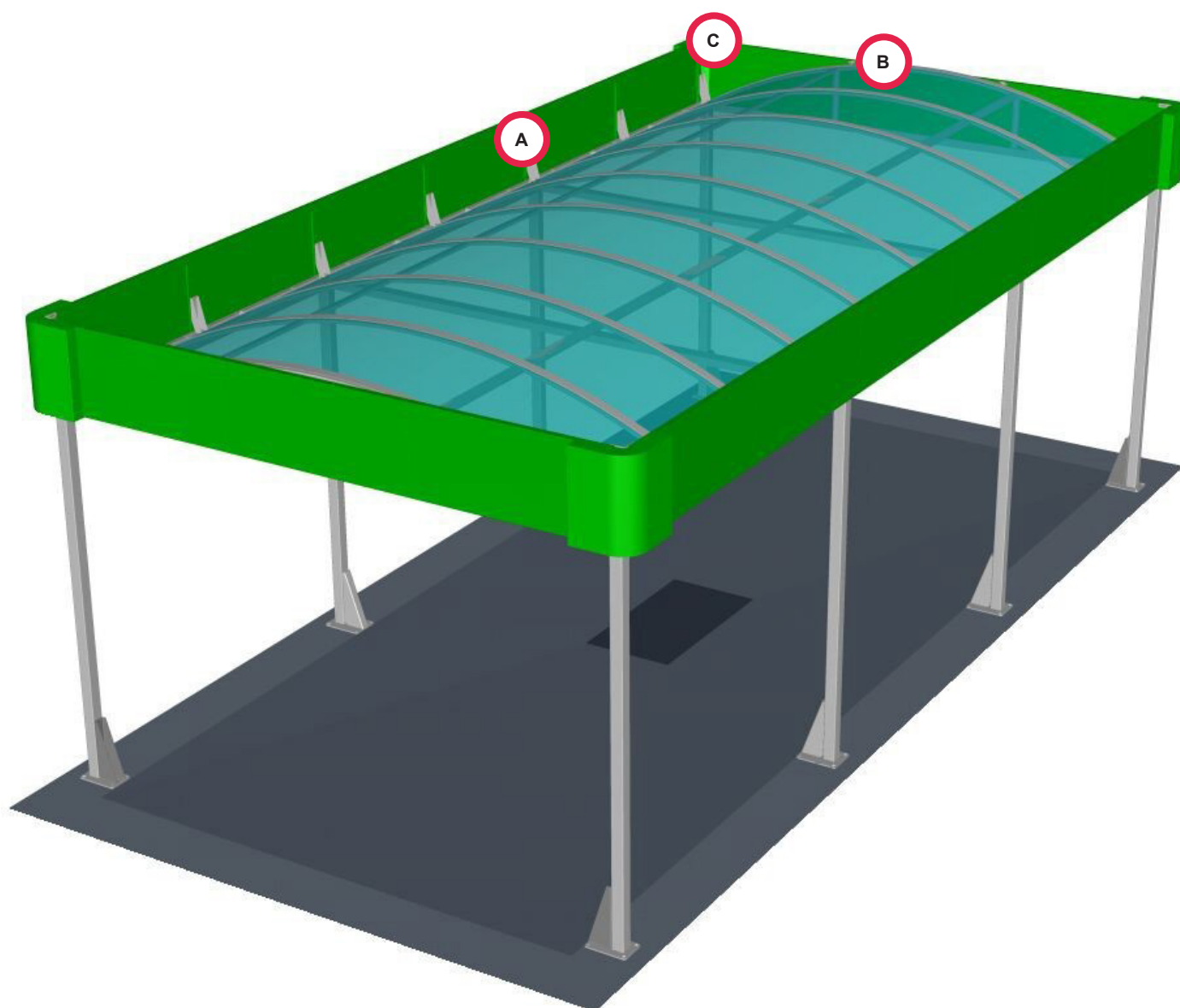


3.5. DETAIL: GUTTER FIXATION



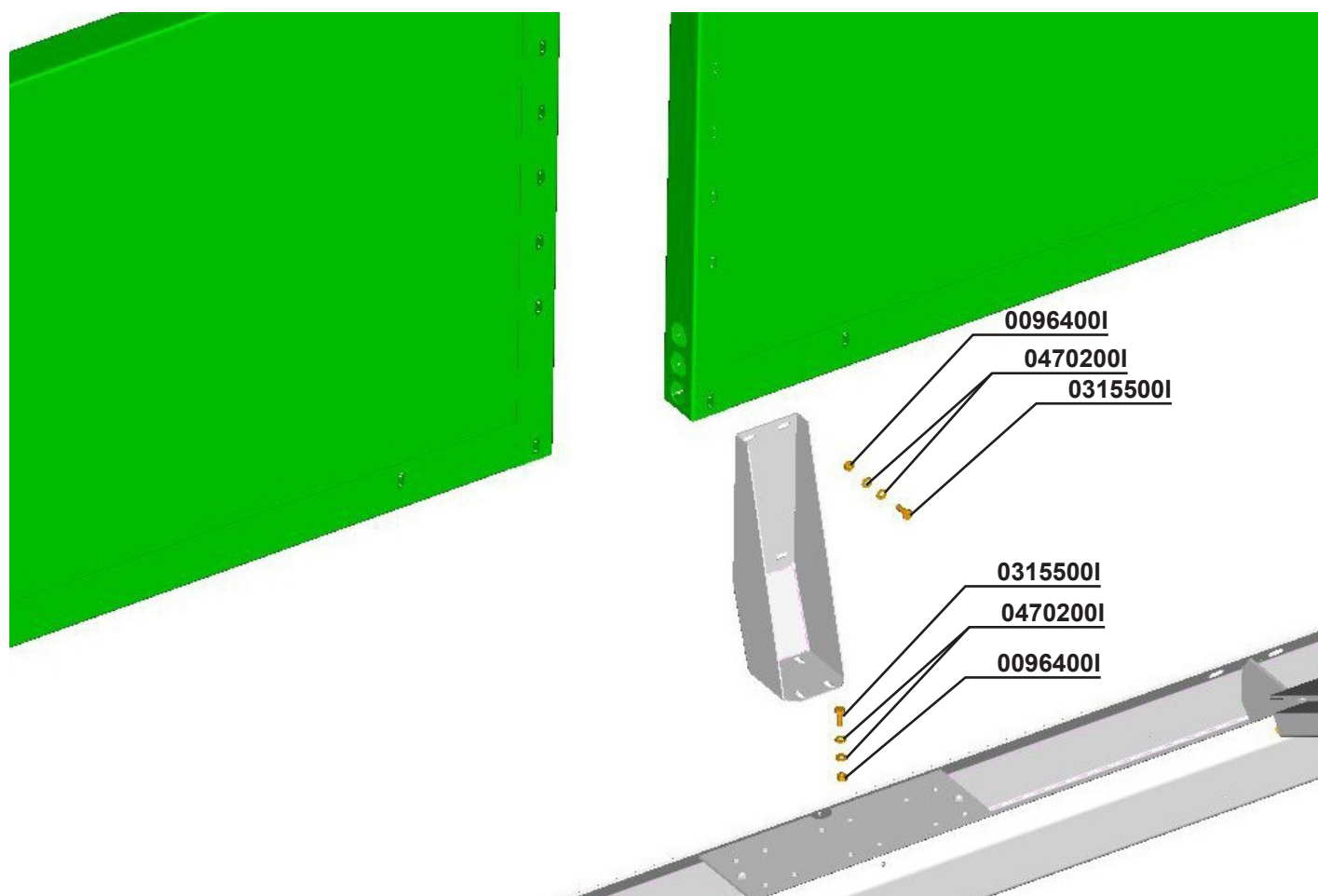
4. FASCIAS

Fascias are made of galvanised steel sheet with oven-dried epoxy paint coating.

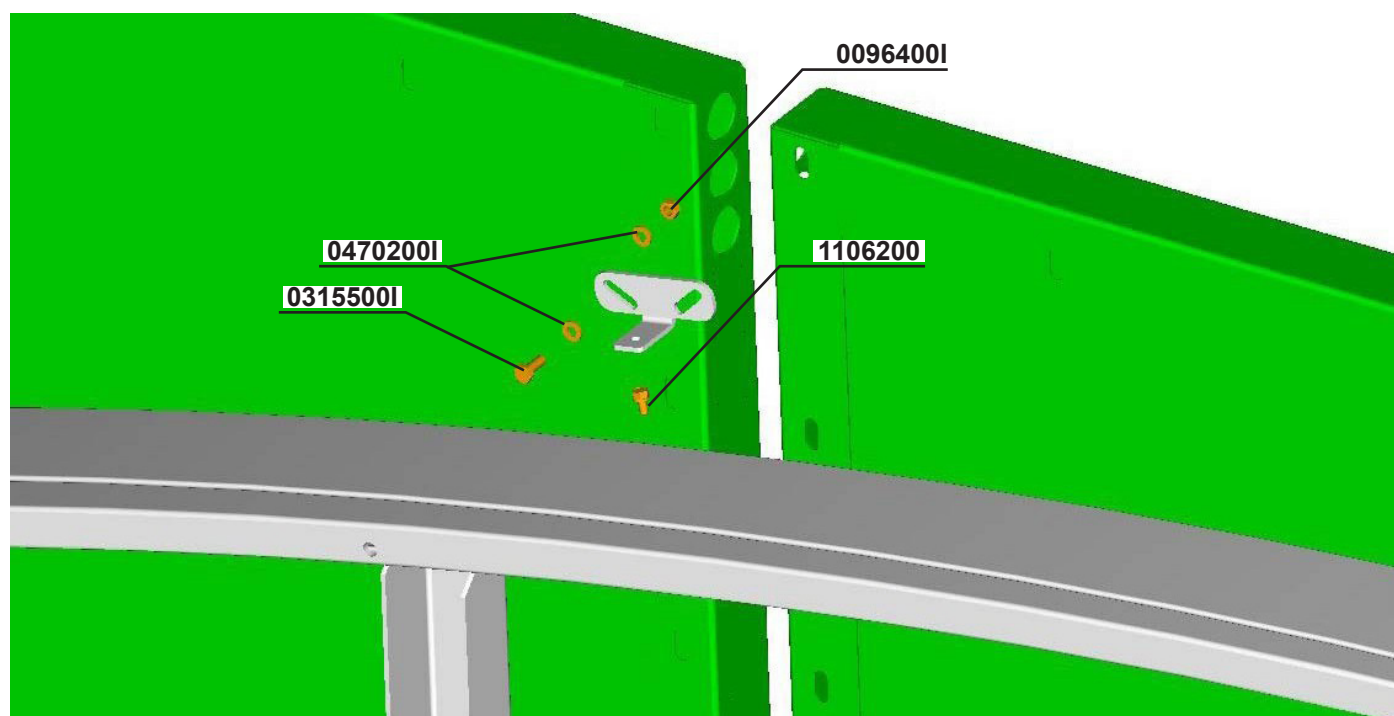


- A** Detail: fascia fixation
- B** Detail: fascia fixation
- C** Detail: corner fixation

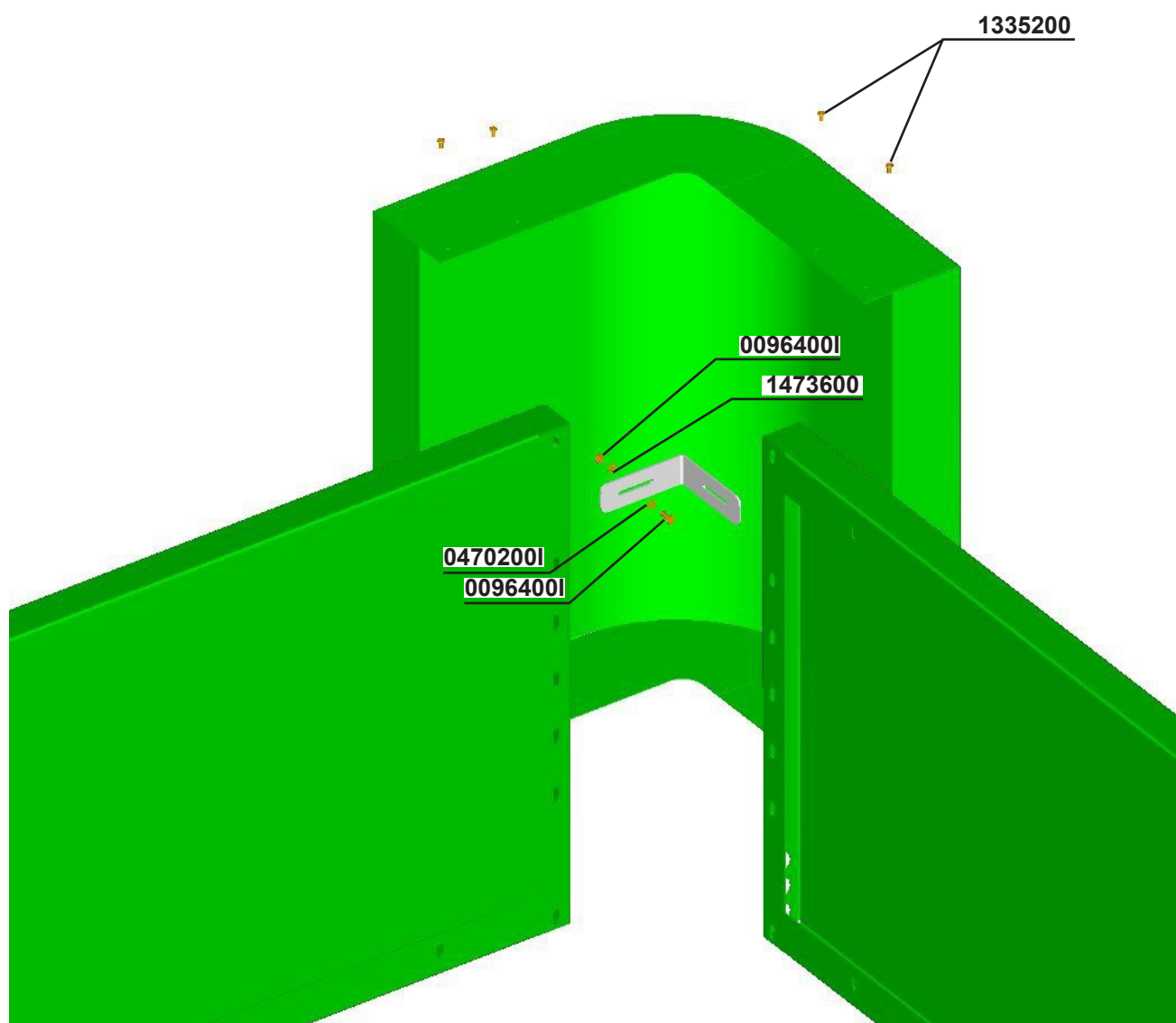
4.1. DETAIL: FASCIA FIXATION



4.2. DETAIL: FASCIA FIXATION

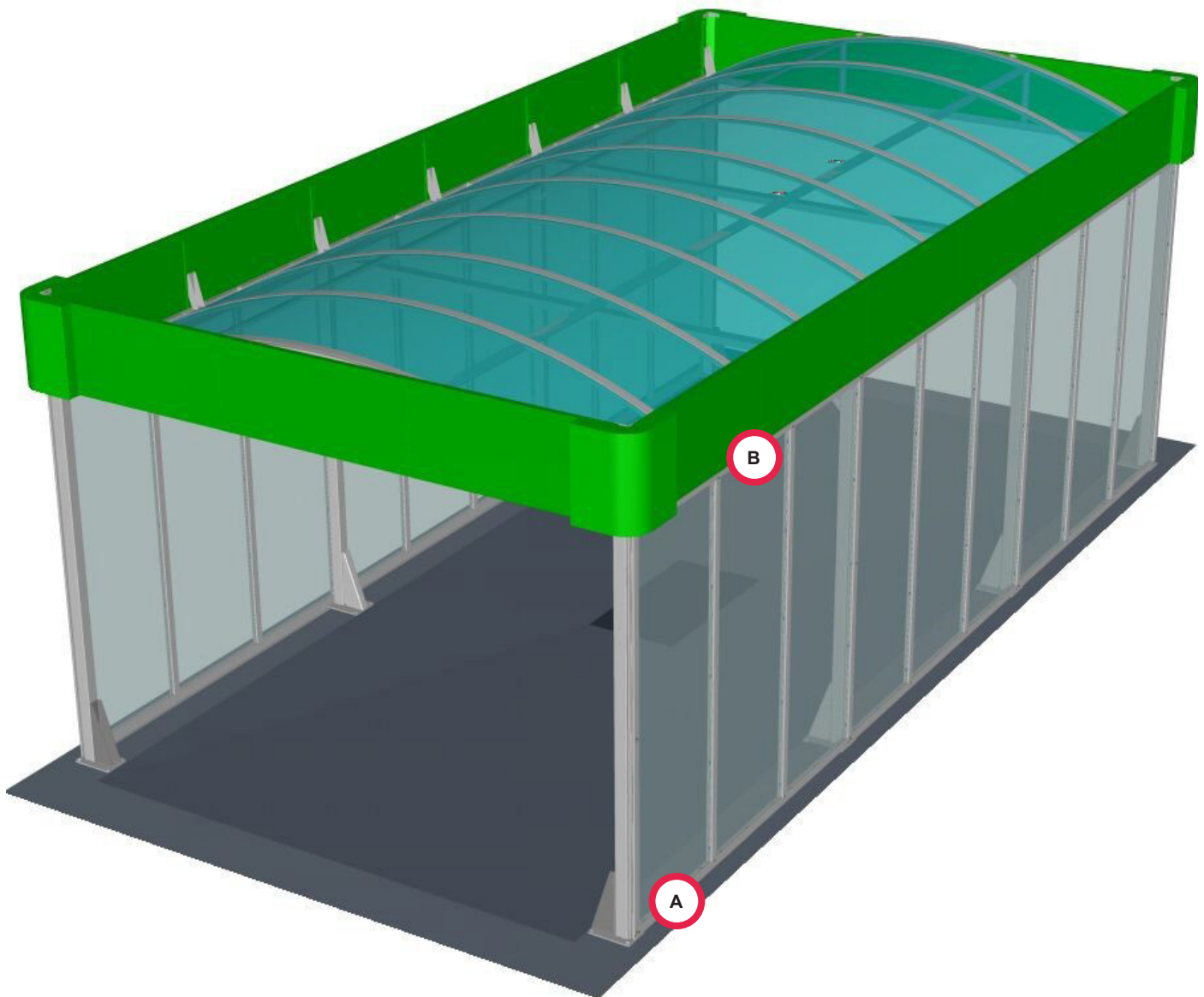


4.3. DETAIL: CORNER FIXATION



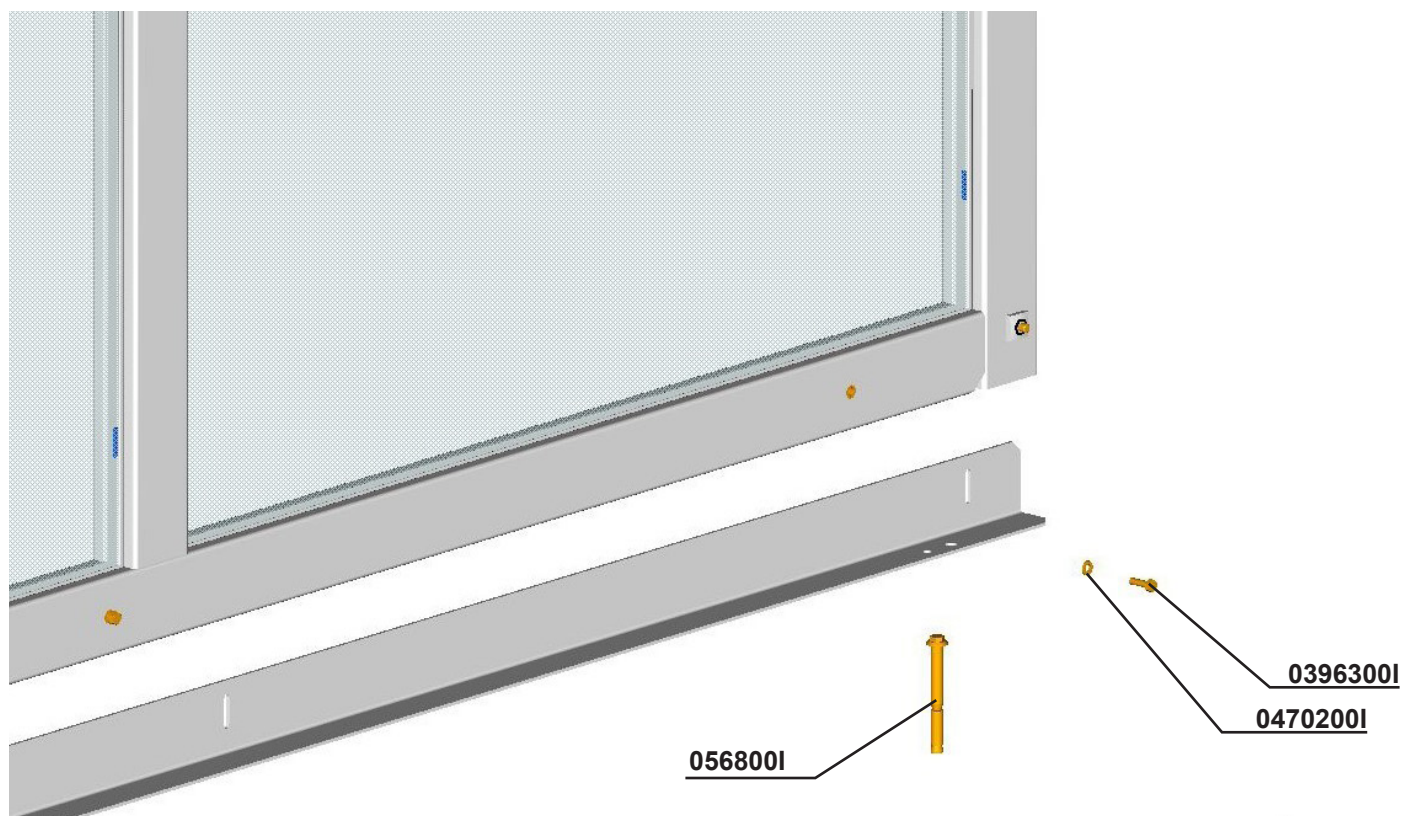
5. SIDE PARTITIONS

Side partitions consist of an extruded aluminium frame that holds a laminated glass panel.



- A Partition fixation, bottom
- B Partition fixation, top

5.1. PARTITION FIXATION, BOTTOM



5.2. PARTITION FIXATION, TOP

