

Concrete slab & footings detailed
in engineering drawings pg 15,16

For construction in non-cyclonic areas

Wind rating: N2 as per AS4055-2021

If you require a higher wind rating please contact
us: admin@absco.com.au or 1800 029 701

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BEFORE STARTING ASSEMBLY

Site Preparation

- Local council approval must be obtained prior to construction of the carport. Once you have selected your site you will need to create and lodge a site plan to your local council or certifier. You will also have to attach a copy of the engineering drawings at the back of these instructions to your site plan.
- The site for the carport must be level, refer to concrete and foundation notes on the engineering drawing.

General Instructions

- Before commencing any assembly, read through these instructions and engineers drawings in detail to gain a thorough understanding of assembly methods and associated details.
- Some components have been pre-punched. Some 10mm holes will still have to be drilled. It may be easier to drill a small pilot hole first.
- Measure, and check off all components using the parts lists on the following pages prior to commencement. To prevent damage in transit, some components may be packed inside others, almost hidden. Carefully examine inside each component to ensure that you have located every item. If a discrepancy is found, contact Absco Industries immediately.

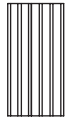

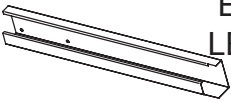



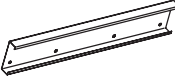
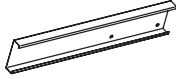


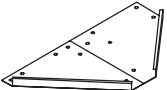
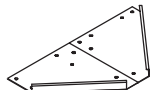
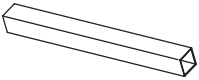
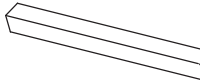



Safety Notes

- The assembly of this product requires some lifting of heavy objects. Two person lifts are required.
- Some parts have sharp edges and/or corners. The use of gloves and safety shoes is highly recommended. Pay attention to where these parts can be safely handled, and plan the handling of these parts before working with them.
- Drilling sheet metal produces small metal shavings the use of safety glasses and the periodic clearing of these shavings throughout the build is recommended.
- Use the appropriate personal protective equipment for any tool used during the assembly.

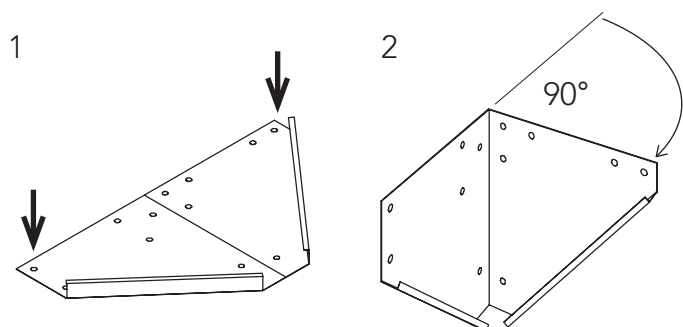
Tools Required

- Electric drill with chuck
- 3 and 10 mm drill bits
- Hammer drill
- 10 mm masonry drill bit
- Mallet
- 'G' clamps
- Tape measure
- Socket set
- 17 mm spanner / shifter
- Spirit level
- Water proof sealant (silicone)
- 1.8m ladder
- PVC solvent welding cement.

COMPONENTS LIST - LARGE ITEMS

QTY	COMPONENT DESCRIPTION	PART No.	CHK	QTY	COMPONENT DESCRIPTION	PART No.	CHK
16	 STEEL SHEET 2930 x 773 mm	293		6	 ANGLE BRACE 30 x 30 1100 mm	ZACO 120	
2	 EDGE BEAM LEFT NOTCH 2750 mm	ZACO 113		2	 EDGE BEAM RIGHT NOTCH 2750 mm	ZACO 112	
2	 EDGE BEAM LEFT NOTCH 2750 mm	ZACO 116		2	 EDGE BEAM RIGHT NOTCH 2750 mm	ZACO 115	
4	 CROSS BEAM 2610 mm	ZACO 105		4	 CROSS BEAM 2675 mm	ZACO 106	
4	 EDGE BEAM SPLICE PLATE	ZACO 187		4	 CROSS BEAM SPLICE PLATE	ZACO 186	
2	 COLUMN BRACKET LEFT	BKT 07 L		2	 COLUMN BRACKET RIGHT	BKT 07 R	
2	 STEEL POST 65 x 65 RHS 2200 mm	COL 07		2	 STEEL POST 65 x 65 RHS 2250 mm	COL 08	
1	 PVC DOWNPIPE 1200 mm	RWG 13		1	 PVC DOWNPIPE 1880 mm	RWG 14	
4	 ANGLE BRACE 30 x 30 1045 mm	ZACO 120A					

BEND COLUMN BRACKETS



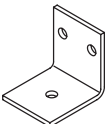
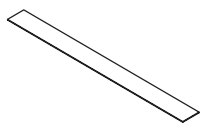
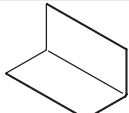
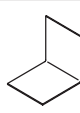
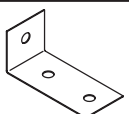
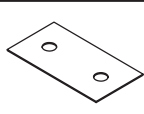
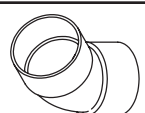
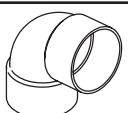
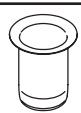
Repeat for all four BKT07

- Bend each column bracket along the slotted centre line, holding at the points shown
- Apply sufficient pressure to form a 90 degree angle along the bend line.
- Make sure the existing folded edges always face inwards. The end result will give you two "left hand" and "two right" hand brackets.
- NOTE: Please use 10mm drill bit and predrill all holes before beginnings construction.


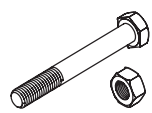
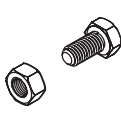

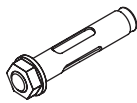


ABSCO SKILLION CARPORT MODEL: CPDN2

5.50mW x 5.50mD x 2.37mH

COMPONENTS LIST

QTY	COMPONENT DESCRIPTION	PART No.	CHK	QTY	COMPONENT DESCRIPTION	PART No.	CHK
8	 BASE BRACKET	BKT 02		18	 STRAP	ZACO 126	
4	 JA2 BRACKET	ZACO 129		4	 JA1 BRACKET	ZACO 130	
8	 JA3 BRACKET	ZACO 131		4	 JP PLATE	ZACO 179	
1	 PVC DOWNPIPE 45° FITTING	RWG 01		2	 PVC DOWNPIPE 90° FITTING	RWG 02	
1	 PVC DOWNPIPE DROP	RWG 17					

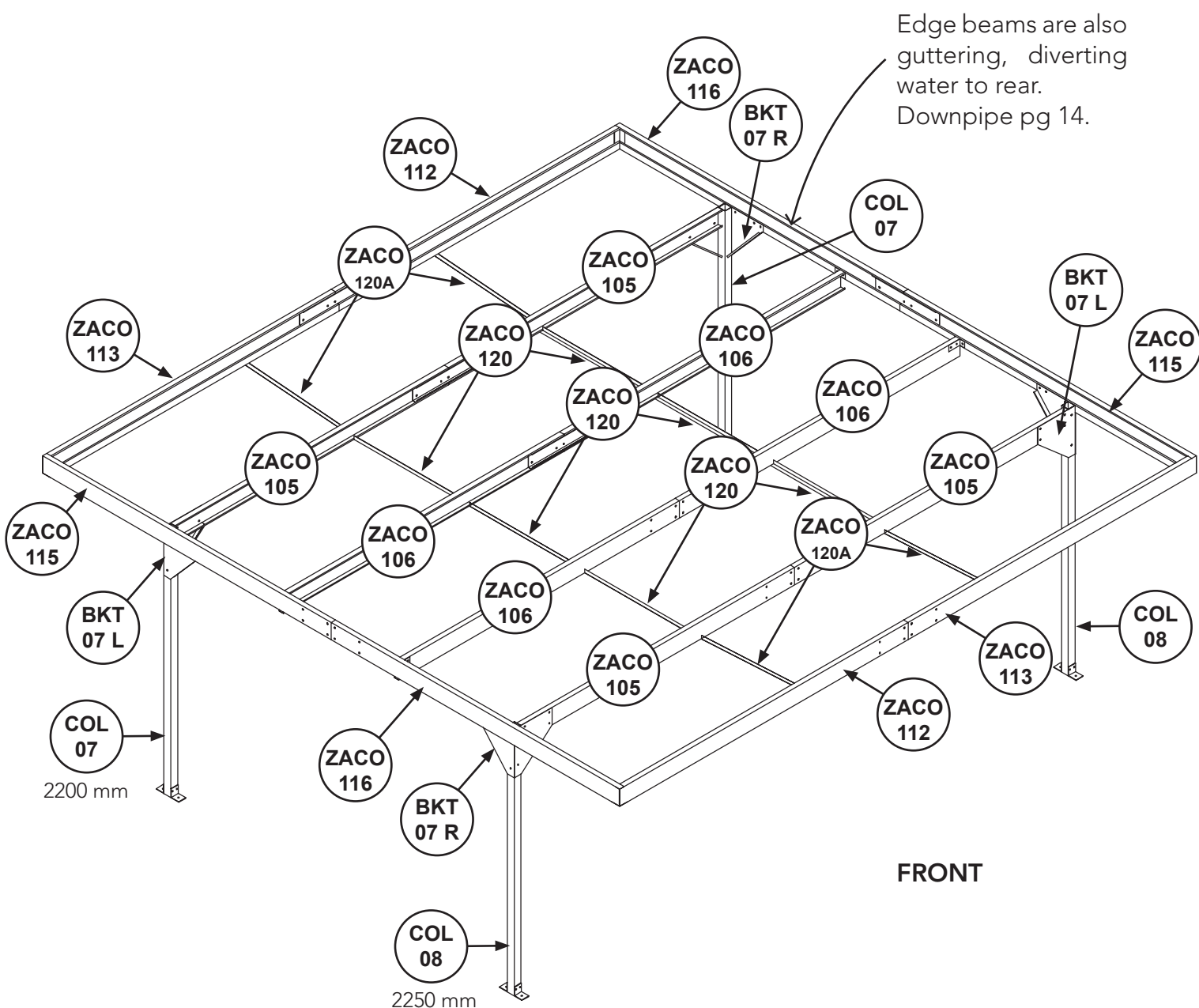
FITTINGS PACK

1	 PHILLIPS HD DRIVER BIT	FAST 038		16	 BOLT M10 x 80 mm & NUT	FAST 022	
124	 BOLT M10 x 20 mm & NUT	FAST 018		280	 M10 WASHER	FAST 017	
8	 DYNABOLT 10 x 50 mm	FAST 015		280	 WAFER HD TEK SCREW	FAST 014	
240	 NEOPRENE WASHER	FAST 043		80	POP RIVETS	FAST 009	

FRAME COMPONENT OVERVIEW

Roof sheet not shown for illustrative purposes.
Small components not called out, detail to follow.

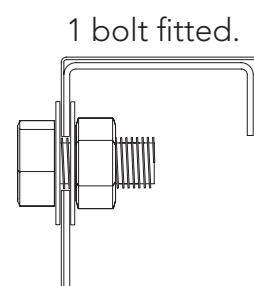
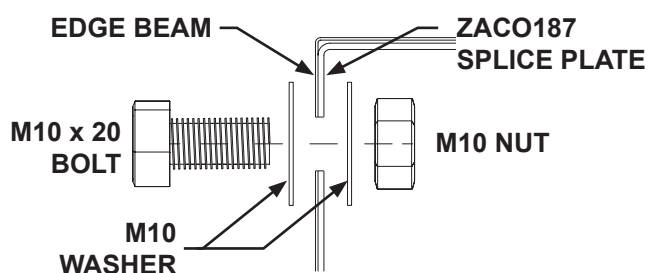
Note: Not all components have the part number printed on them. These can be identified by their size and description in COMPONENT LIST.



JOIN SPliced BEAMS

Edge & cross beams are joined using their splice plate, M10 x 20mm bolts, nuts and washers as shown.

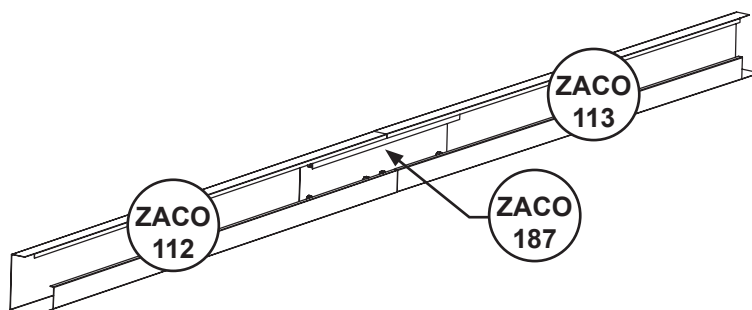
It's best to have the nut on the inside of the beam.



Each splice plate needs 8 bolts, 4 per end.

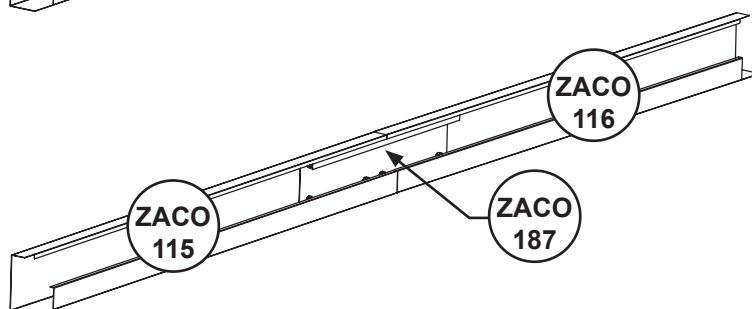
Edge Beams

2x ZACO112
2x ZACO113
2x ZACO187



= 2x End Beams
5500 mm long

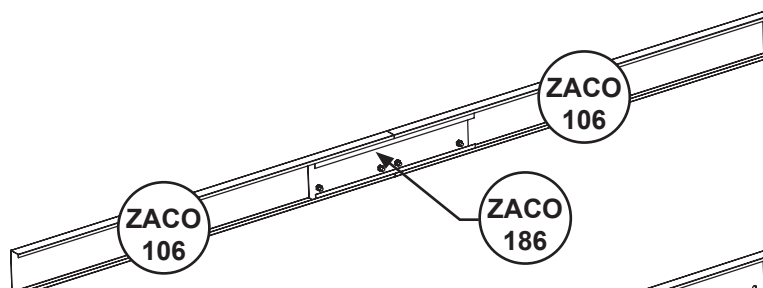
2x ZACO115
2x ZACO116
2x ZACO187



= 2x Side Beams
5500 mm long

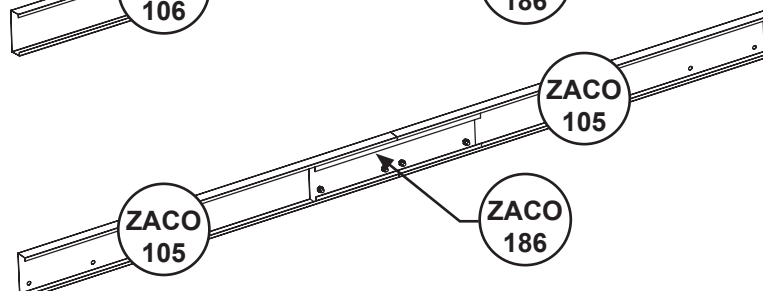
Cross Beams

4x ZACO228
2x ZACO186



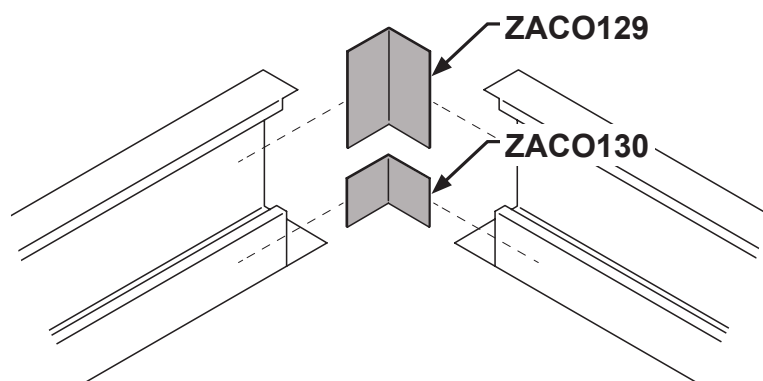
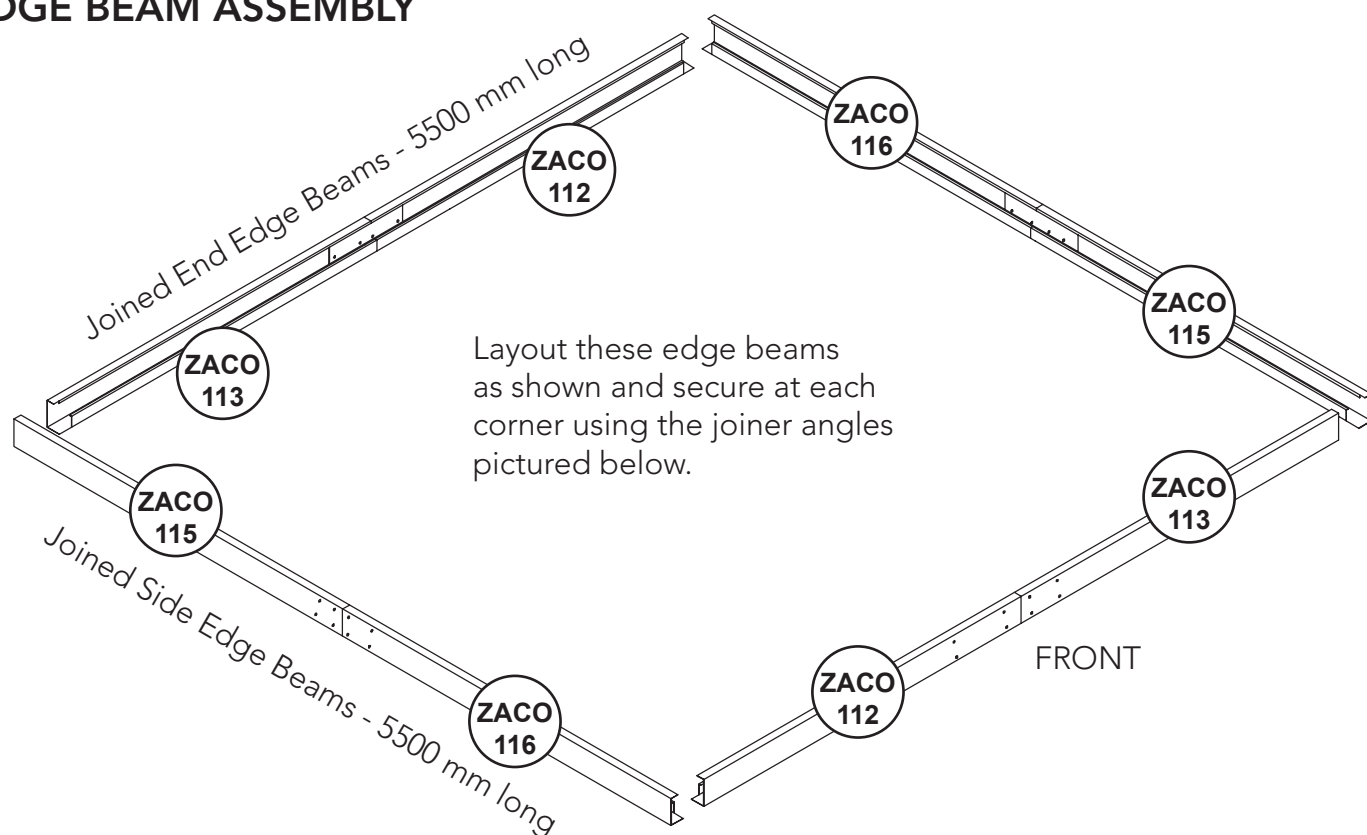
= 1x Centre cross beam
5350 mm long

4x ZACO227
2x ZACO186



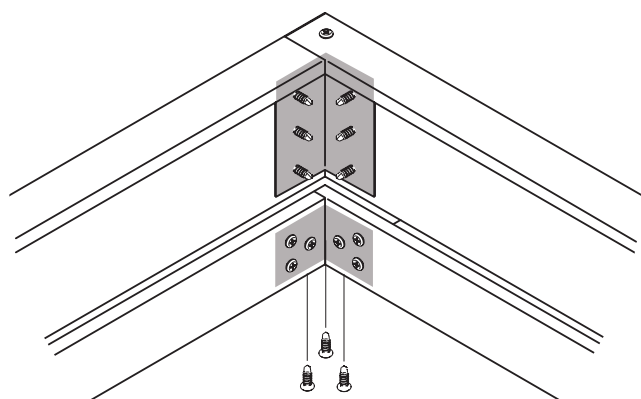
= 2x Post cross beam
5220 mm long

EDGE BEAM ASSEMBLY



The joiner angles should be positioned on the inside of the edge beams.
ZACO129 goes to the tall side and ZACO130 the short side.

Hold with 'G' clamps and fastened with tek screws from the outside of the edge beams.



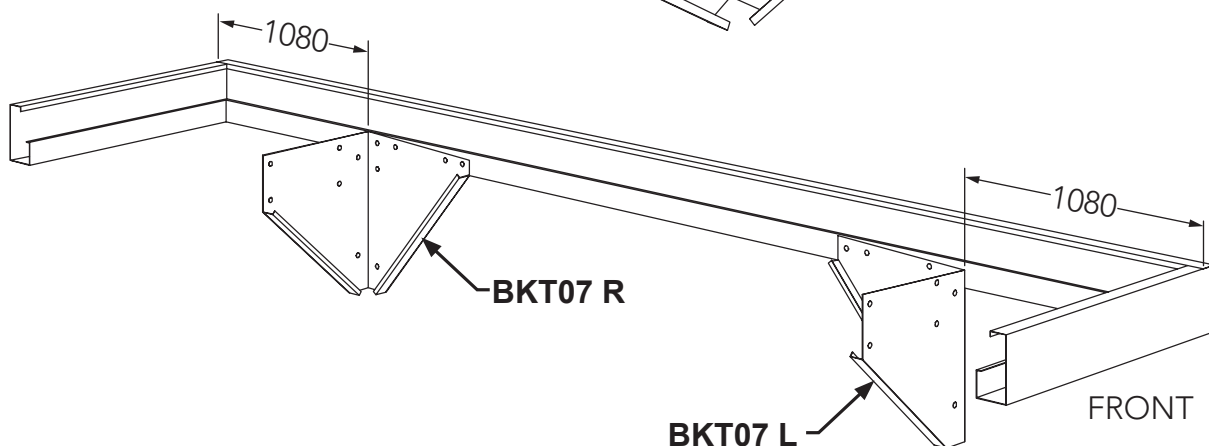
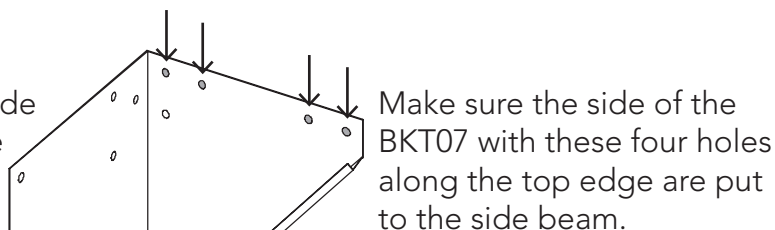
Also fasten the bottom overlap with three tek screws.

Seal all joints with water proof sealant such as silicone as these beams are an internal gutter system.

The overall dimension of the assembled edge beams joined should be 5500 x 5500 mm

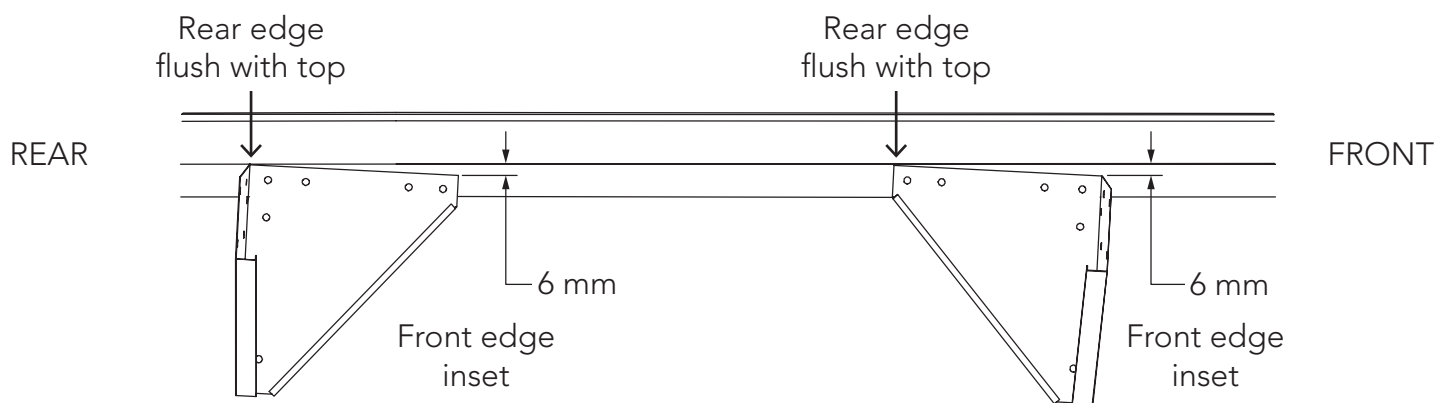
EDGE BEAM ASSEMBLY

Mark a line 1080 mm in from each end of the side beams. These are the positions for locating the column top brackets, BKT07.



To make rainwater flow to the downpipe at the rear of the carport, the rear posts are 50mm shorter than the front.

Therefore to keep the posts vertical, the BKT07 need to be inset 6 mm at their front-most edge as shown below.



Mark these four hole positions of the BKT07 on the beam and then drill 10 mm holes.

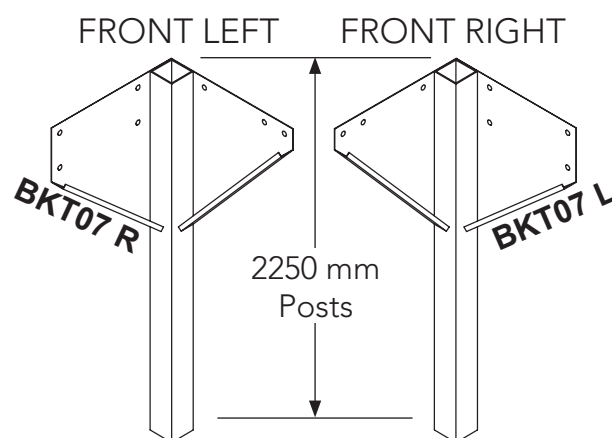
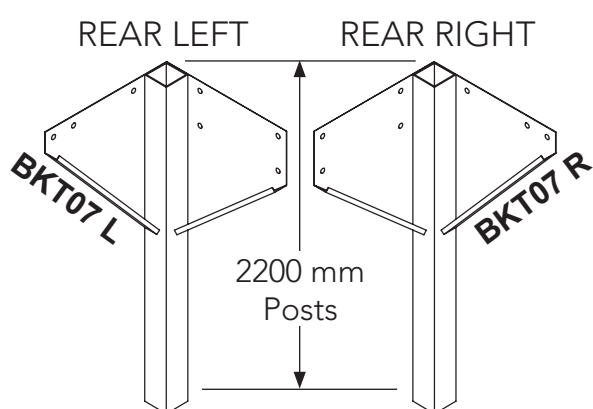
Don't fasten these brackets yet, just make the holes for now.

POST ASSEMBLY

While they look similar and use the same assembly methods, take care to use the correct parts for each post.

The table lists which parts are needed for each location.

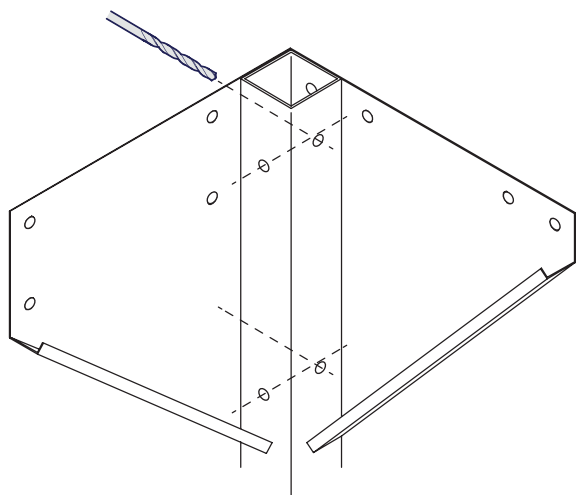
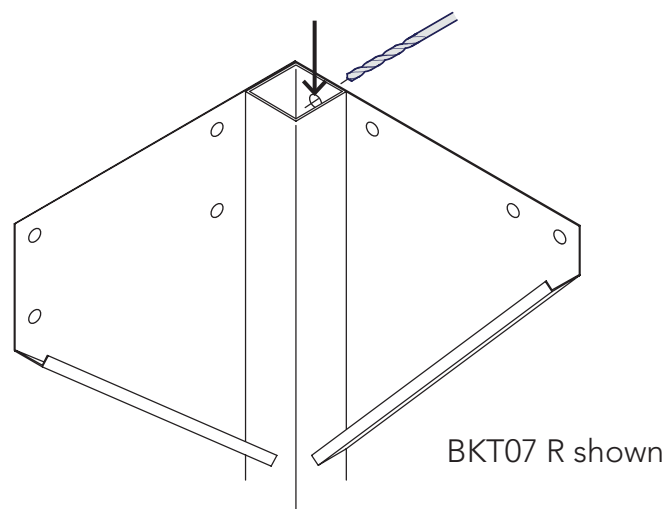
LOCATION		Post	Bracket
Rear	Left	COL07 2200 mm	BKT07 L
	Right	COL07 2200 mm	BKT07 R
Front	Left	COL08 2250 mm	BKT07 R
	Right	COL08 2250 mm	BKT07 L



POST HOLES

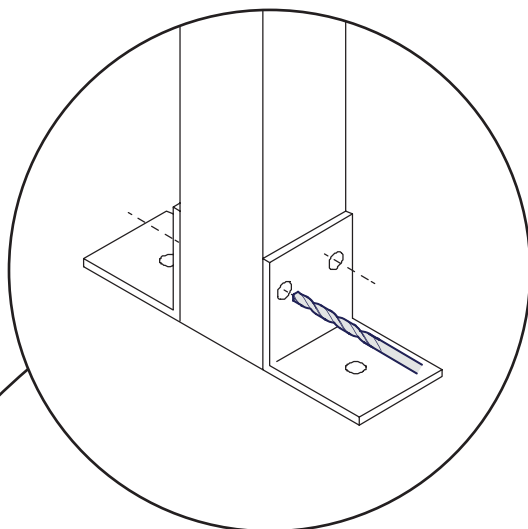
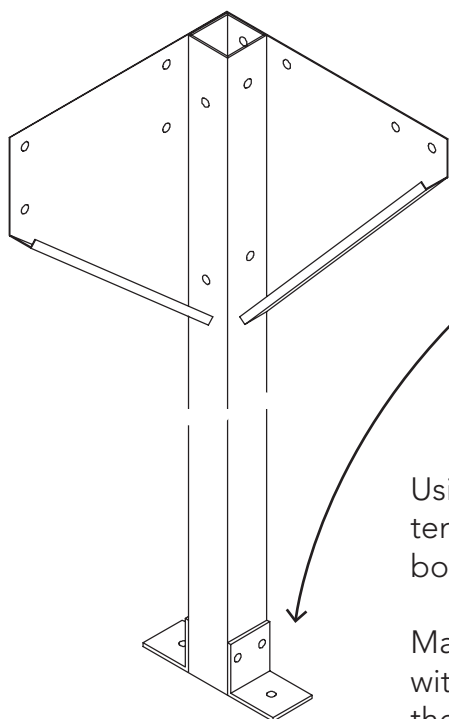
Using the BKT07 as a template drill this 10mm hole in the top of each post.
Make sure the top edges are flush before marking & drilling.

This hole will be used as a pivot to stand the structure later.



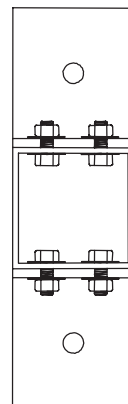
Again using the BKT07 as a template drill these four holes through both sides of the posts and then fasten with four of the longer M10 x 80 mm bolt and a nut with washers both sides.

BASE BRACKETS



Using the BKT02 base brackets a templates, drill four 10mm holes in the bottom of the posts.

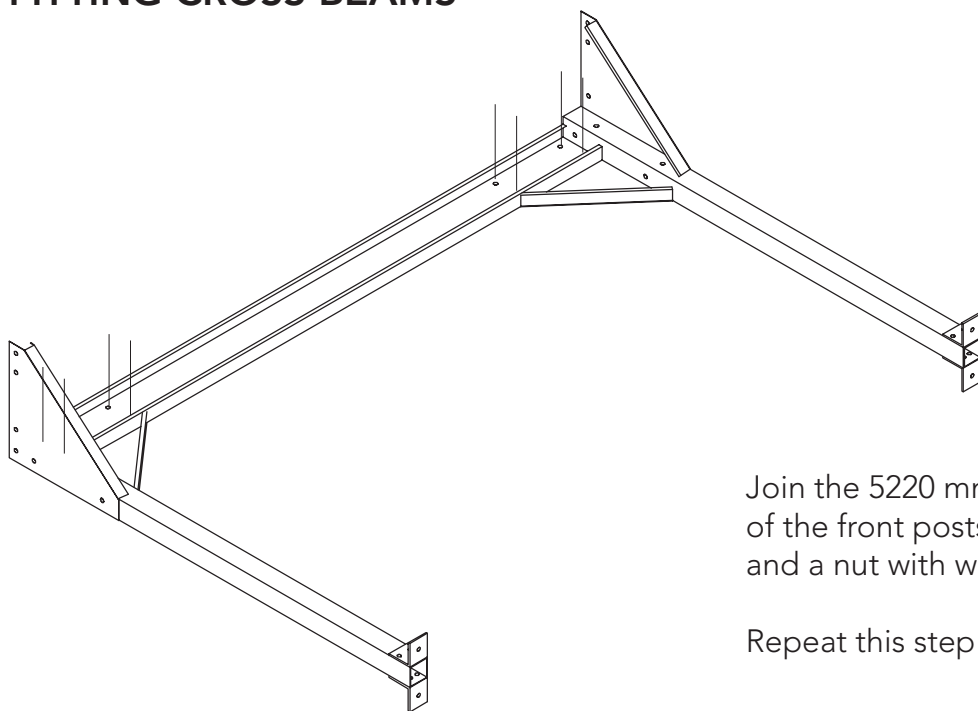
Make sure the brackets are orientated with the single hole to the ground and they're on the front and rear faces of the post.



Fasten with four of the M10 x 20 mm bolt and a nut with washers both sides.

Above shows the bolt inserted from inside the post. Use a spanner to hold it in place when tightening.

FITTING CROSS BEAMS

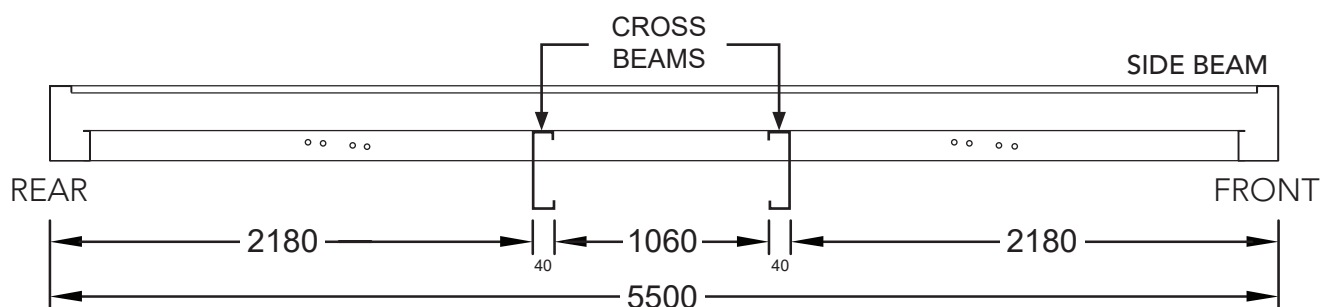


Join the 5220 mm cross beam to the top brackets of the front posts with four M10 x 20 mm bolt and a nut with washers per sides.

Repeat this step for the rear posts too.

CENTRE CROSS BEAM

Mark the position for the centre cross beams on the side beams.



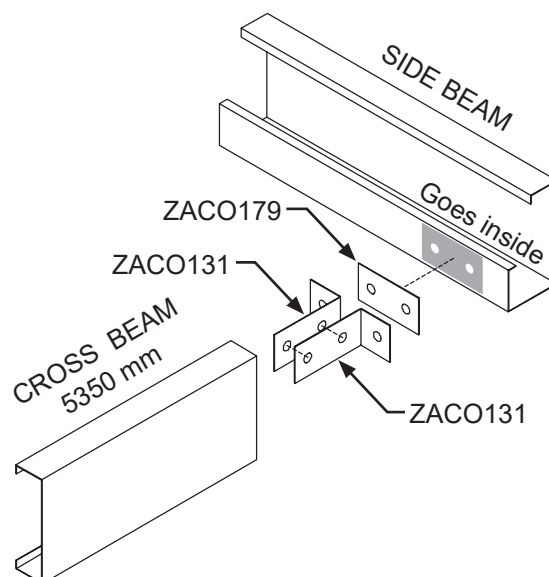
Using the joiner angle ZACO131 as a template, drill two 10mm holes in each end of the centre cross beam, it's the longest at 2850 mm.

Secure two ZACO131 to each end of the cross beams with two M10 x 20 mm bolt and a nut with washers both sides.

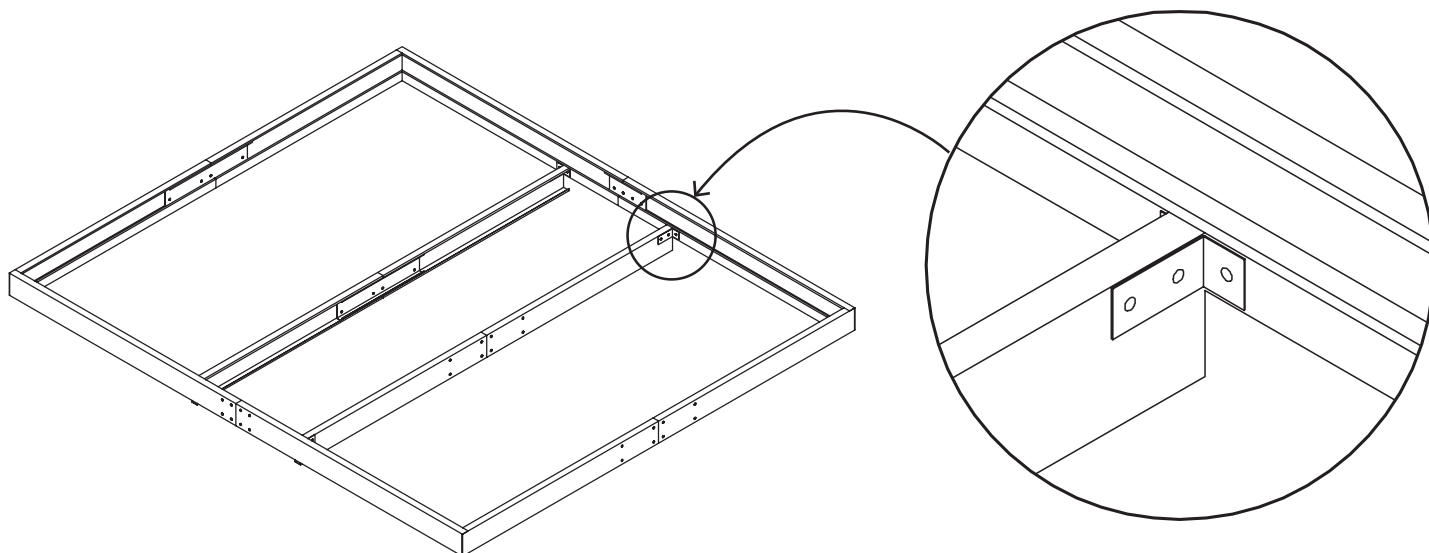
Make sure these are flush with the top face of the cross beam to achieve a level surface to attach the roof sheets to.

Position the ZACO179 joiner plate on the side beam to the dimension shown above and drill two 10mm holes in the beam, using it as the template.

Move the ZACO179 inside the beam and to act as a large washer for the bolts.



Secure cross beams to the side beams as shown with two M10 x 20 mm bolt and a nut with washers both sides.



ATTACHING LEGS AND ERECTING

NOTE: Minimum three people required for these steps.

REAR POSTS

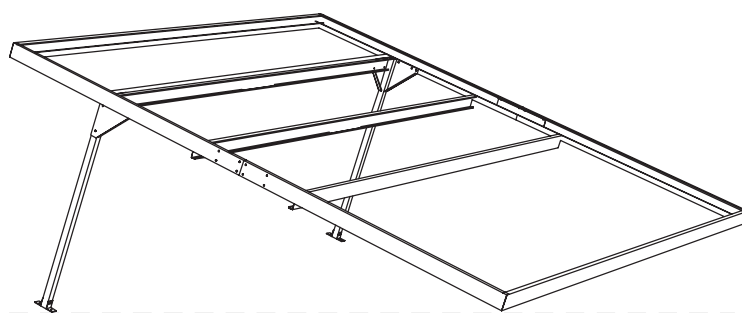
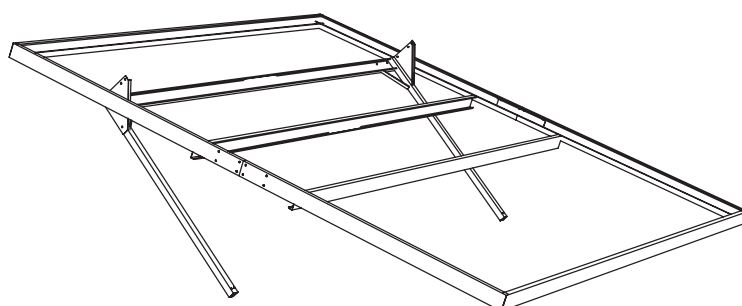
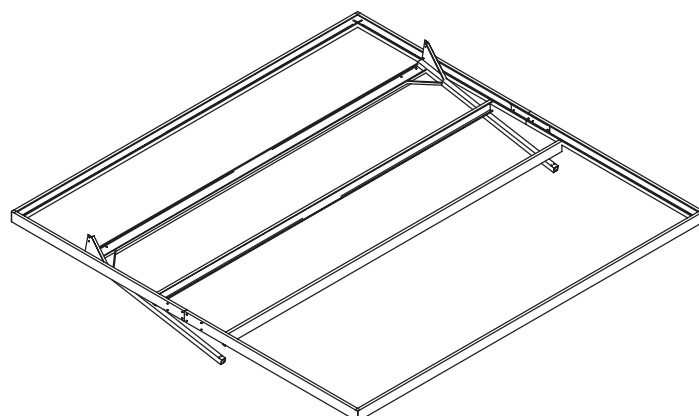
Referring back to page 9 locate one M10 x 20 mm bolt and a nut with washers both sides at each end of the cross beam and post assembly to the predrilled pivot holes.

Only finger tighten these for now to allow the sections to move when lifted.

With one person holding each post, and another at the rear edge beam, begin to carefully lift the beam assembly.

Continue lifting until a second bolt can be fastened to the top bracket and edge beam.

Secure all four M10 x 20mm bolts with a nut and



FRONT POSTS

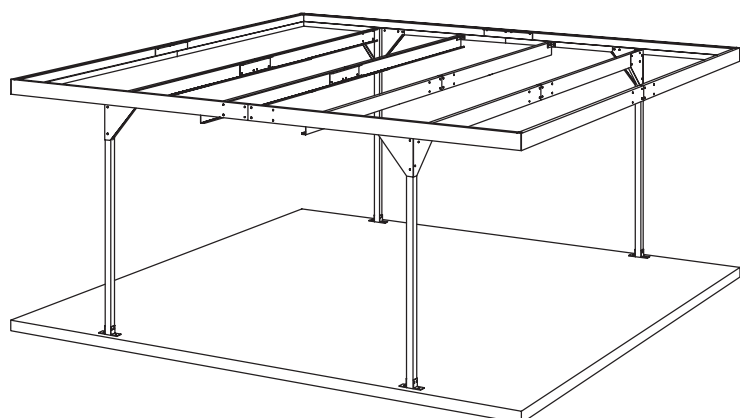
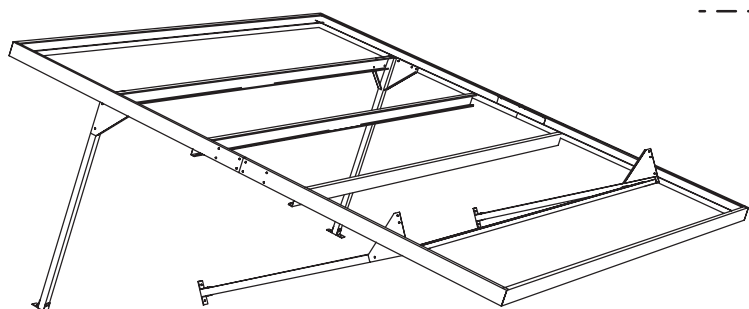
Repeat these steps for the other cross beam assembly.

Now go around and full tighten **all** nut and bolt connections, including splice plate connections.

Take care to check the bolts securing the base brackets, as access can now be awkward.

ANCHOR

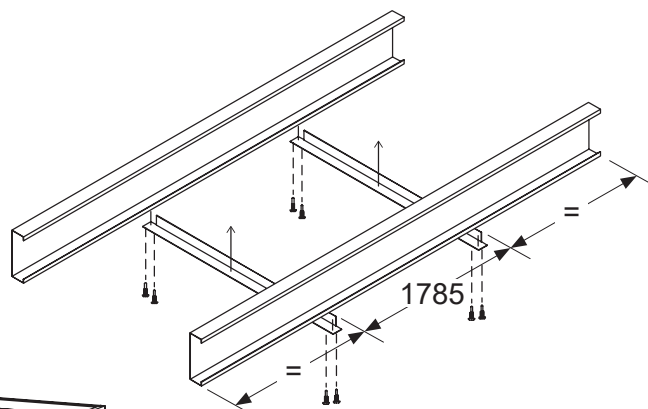
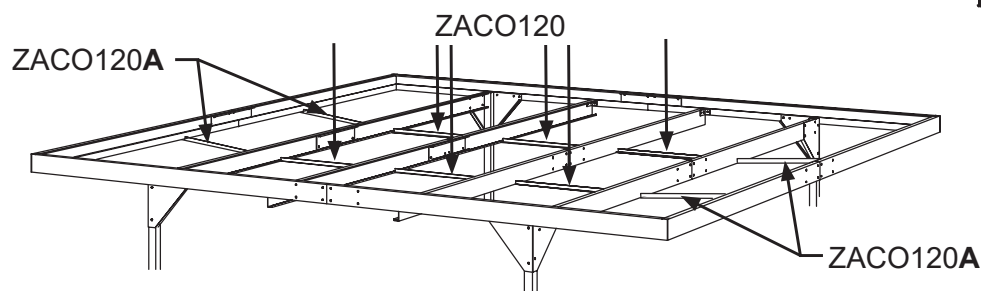
Using the dimensions on the front page secure the frame to the concrete slab with the 50mm dynabolts provided.



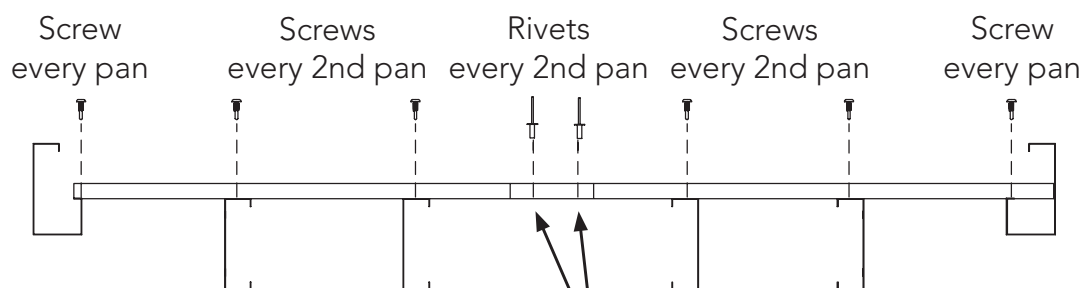
BRACING

Attach the roof braces to the underside of the beams.

- Use the six ZACO120 between the cross beams.
- Use the four shorter ZACO120A braces from the cross beams to the end beams.



SHEETING



It is **critical** that you begin at the rear of the structure.

Align the short edge of the sheets with the edge of the rear beam, as shown in the detail view, and fasten with a screw in every flat pan into the framing.

Slip a neoprene washer onto the tek before screwing for a water tight connection.

The long edges of the sheeting should be hard up against the inside of the side edge beams. secure along edges at 150mm centres after both rows of sheet have been fixed.

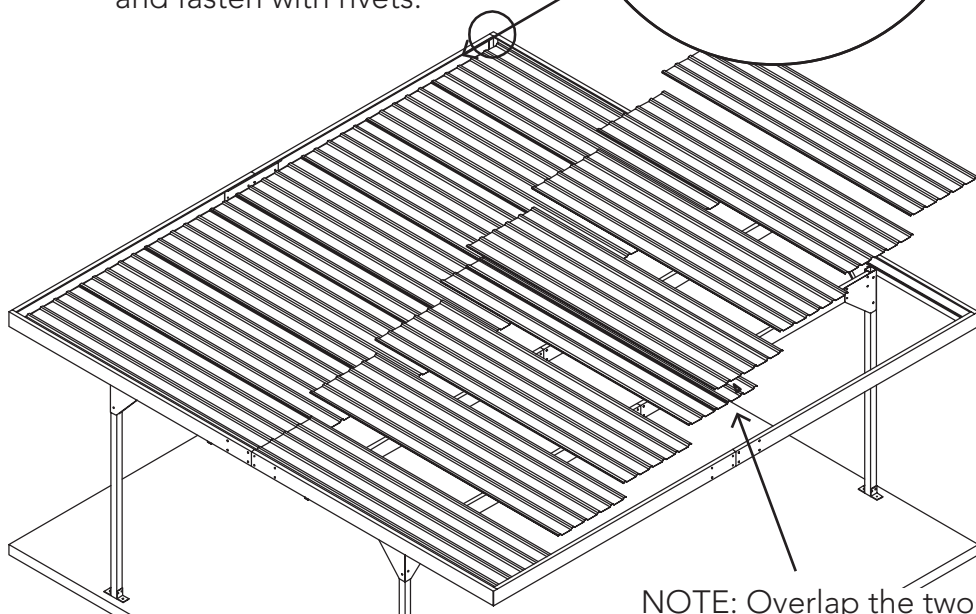
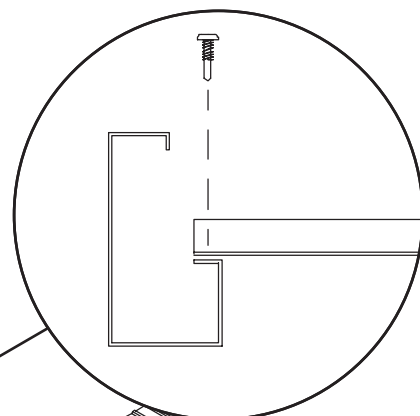
Lay four sheets left-to-right with an overlap of one rib.

The 5th sheet will need to overlap 3 pans (477mm).

The remaining sheets are again overlapped by 1 rib.

Where the rear row of sheeting

Overlap roof sheets and fasten with rivets.



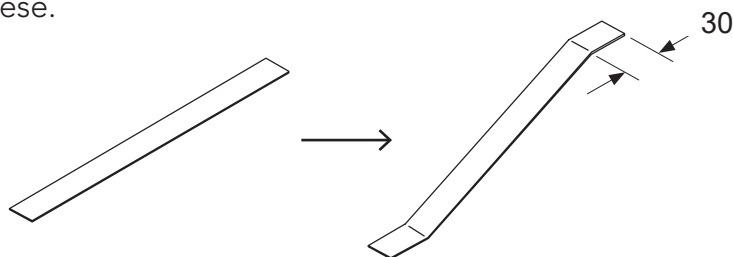
overlaps the front row and a cross beam fasten with a tek screw in every second sheet pan. Make sure the front edge of the sheeting is hard up against the inside front of the beam.

NOTE: Overlap the two centre sheets by three full pans. This will result in the coverage being 5500mm

BRACING

Take 16 flat strips (270 x 25 mm) and, using a pair of pliers, bend the ends as pictured.

NOTE: There will be two left over, don't fold these.

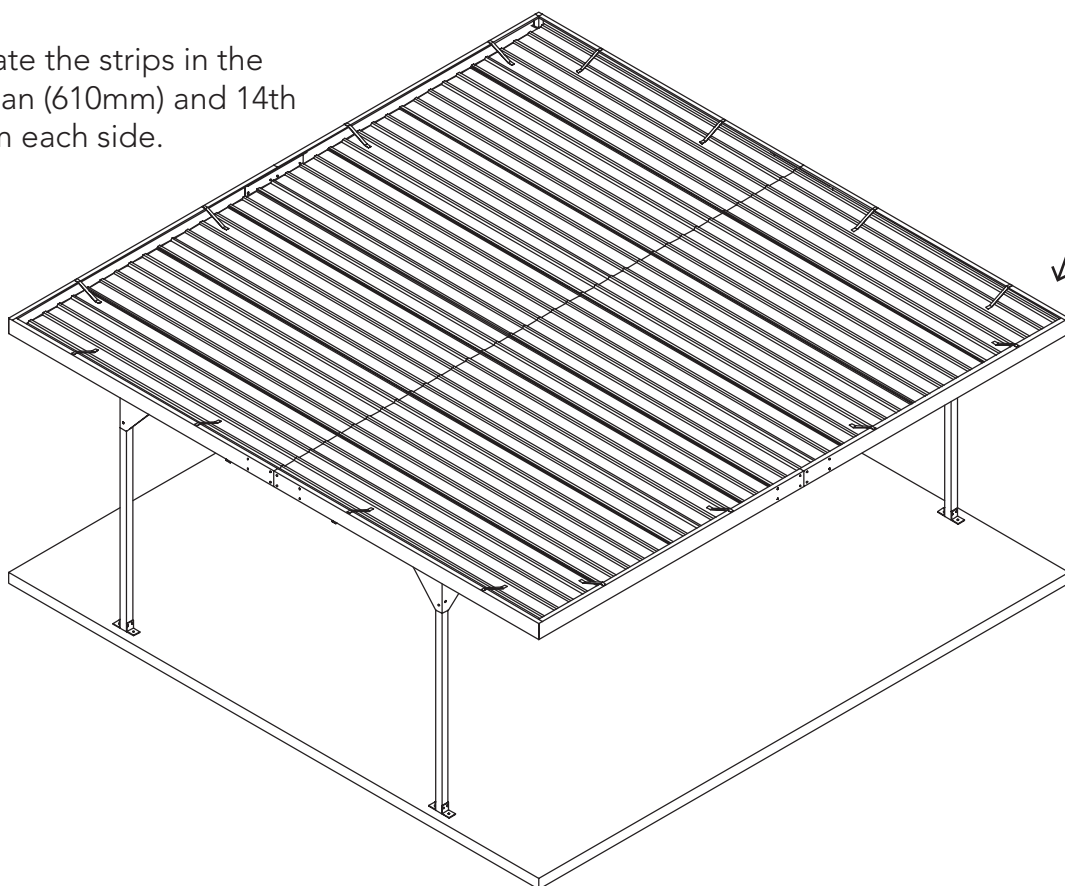


The strip is fixed with a tek screw into the top of the edge beam and into the pan of the sheet below.

At the front and rear locate the strips in the centre of the 4th sheet pan (610mm) and 14th sheet pan (2090mm) from each side.

Along both sides position the strips so they are in line with the cross beams.

TIP: For these front and rear strips replace the tek screws into the sheeting with rivets for a nicer finish.



DOWNPIPE

It can be fit to either end of the rear beam, make a decision based on site specific factors.

Cut a round hole 51mm dia in one end of the rear edge beam. This can be done by drilling a series of 3mm holes and knocking it out or by metal hoesaw. It won't be visible when finished.

Fit the galvanised gutter drop RWG17 from the top down into the hole.

Drill two 3 mm holes through the underside of the end beam and into the flange of the gutter drop and then fasten using two pop rivets. Use water proof sealant around the hole inside the beam.

Join the top three pieces of the down pipe assembly, RWG02 + RWG13 + RWG02 with PVC solvent welding cement. Position over the gutter drop and align with post.

Drill two 3 mm holes through both sides of the PVC elbow and into the gutter drop and then fasten with two tek screws.

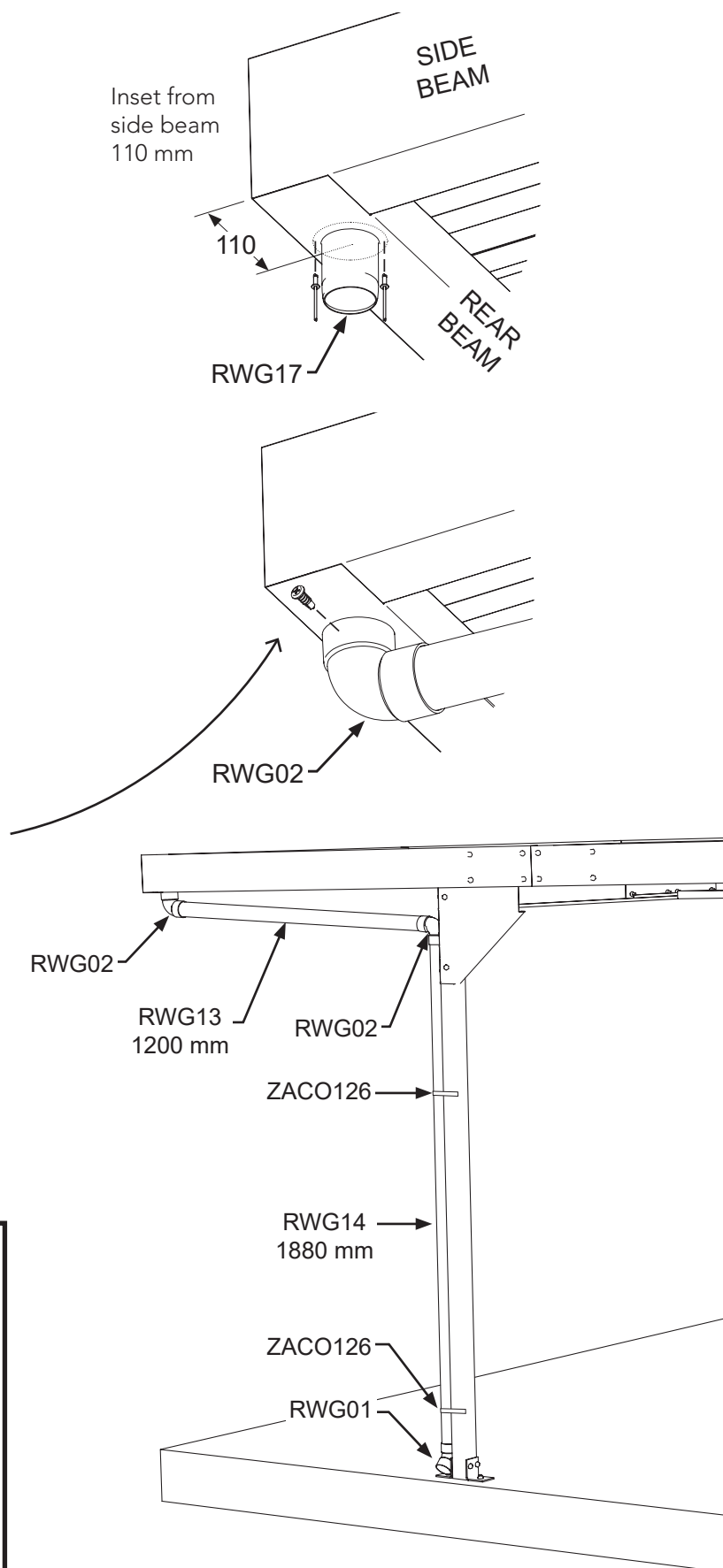
Fit one end of downpipe RWG14 with the elbow RWG01 at trim the other end to the desired height. Fix with PVC solvent welding cement.

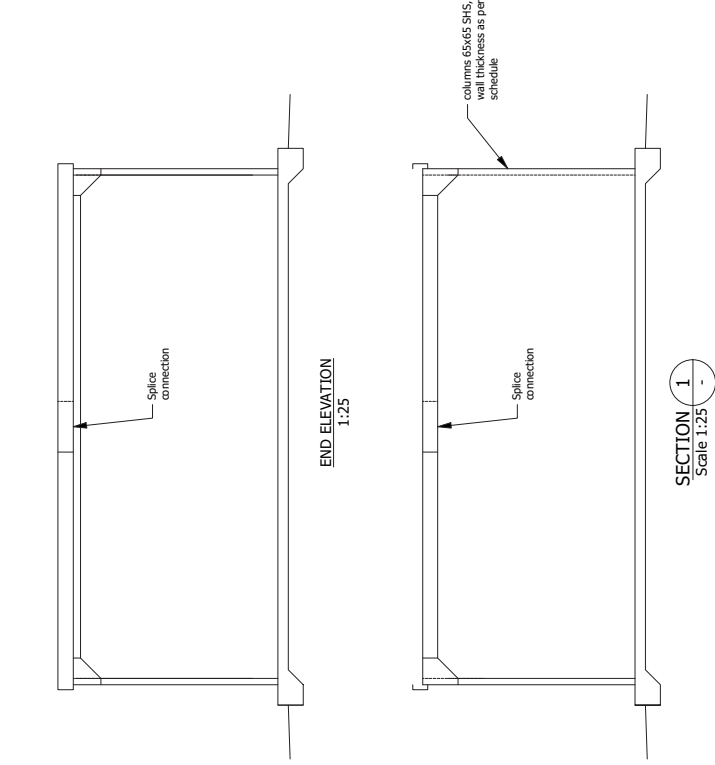
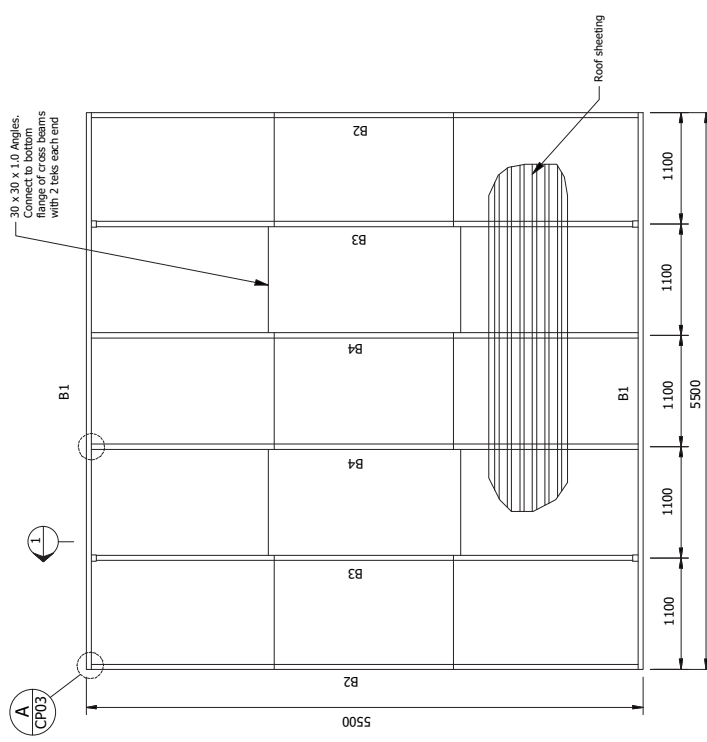
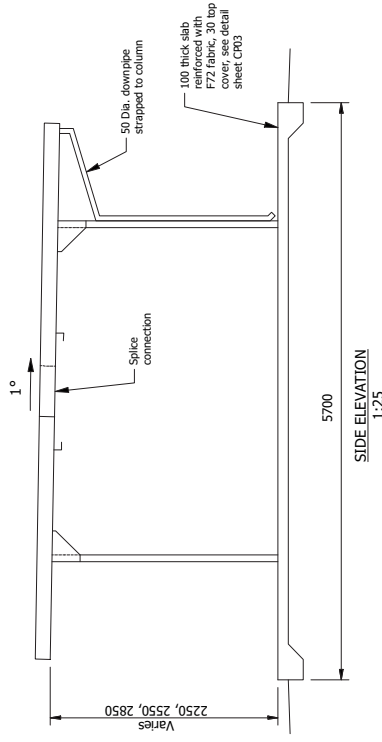
Bend two 270 x 25 mm flat strips ZACO126 to shape around the downpipe and to the sides of the post and fasten with tek screws.

Immediate maintenance required!

Clean down all roof and beam internal areas of metal filings from drilling operations and self drilling screws.

If not cleaned these will cause discolouration and corrosion to roof sheets and galvanised framing sections, see warranty for more details

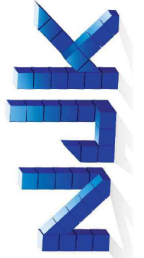




SECTION 1
Scale 1:25

TABLE A									
GROUP	B1 BMT	B2 BMT	B3 BMT	B4 BMT	COLUMN BRACKET BMT	COLUMN WALL THICKNESS	BOLT GRADE	HD. BOLTS	FOOTING SIZE
1	1.0	0.8	1.0	1.0	1.2	1.6	8.8	8/D10	700 x 700 x 600*

NOTE
D10 indicates D10075 Dynabolt, min embedment 55mm
*Column footing sizes where concrete slab is not provided. If concrete slab is provided, column footing may be increased to maintain area of footing to maintain a volume of concrete equivalent to that specified above.
This drawing is to be read in conjunction with 06205-003-CP03



DRAWN	SJC	NOV 2022
CHECKED		
TECH APPROVED		

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06205-003-CP01		SKILLION CARPORTS	
N2 WIND CLASS ONLY		DOUBLE BAY	
SZCS	A3	SCALE	AS SHOWN
REV	22-1	SHEET	1 OF 1

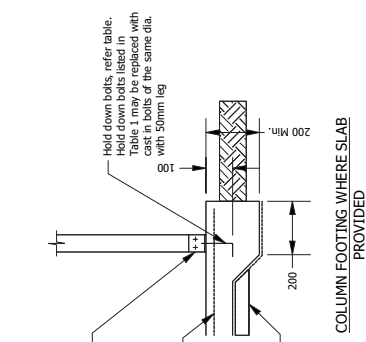
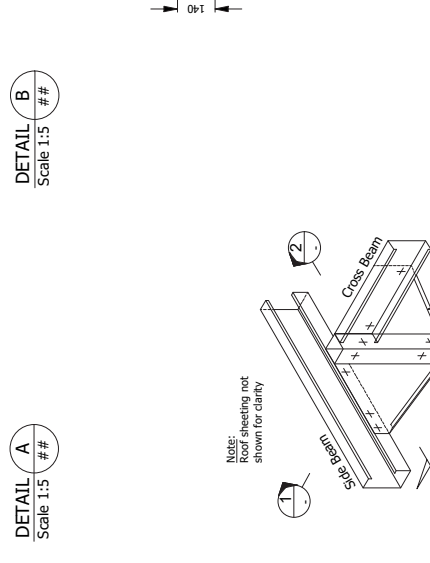
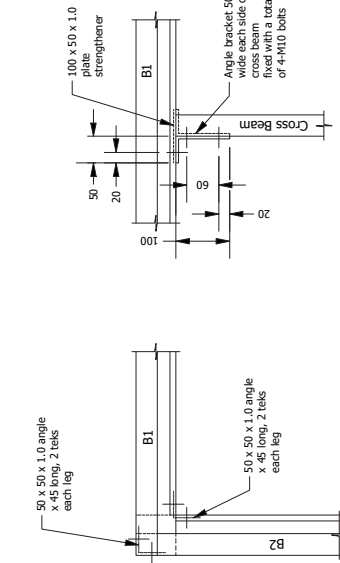


TABLE A			EQUIVALENT AS170-89 PERMISSIBLE STRESS CLASSIFICATION (SUPERSEDED)
AS170-2:2021 CLASSIFICATION		EQUIVALENT AS4055 CLASSIFICATION	
Group	Ultimate Design Wind Pressure (Pg) (kPa)	Ultimate Design Wind Pressure (Vail.B) (kPa)	
		Non-Cyclonic regions A + B	(m/s)
		Cyclonic regions C + D	
1	1.0-0.9g	N2	-
			W33N

DIAGRAMMATIC COLUMN / BEAM
ELEVATION
SCALE 1:10

NJK Consulting

Client: ABCO Sheds
Project: Skillion Carports
- Single & Double Bay
Date: 17 November 2022



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06205-003-CP03

SKILLION CARPORTS - SINGLE & DOUBLE BAY

REV SHEET 1 OF 1
22-1

A3	SCALE	AS SH
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TECH APPROVED

Absco Sheds Storage Guidelines

- Absco Sheds are designed to be weatherproof for normal weather conditions. In the event of extreme weather conditions such as heavy rain, combined with high wind gusts, the ridge capping, sheeting joints, screw fixings etc., may exhibit minor deformations which may allow some water entry. These areas should be checked regularly to ensure that maximum strength and protection is maintained.
- Other weather conditions such as extreme heat and extreme cold, moist or dry air can influence the effects of concrete floor moisture and/or condensation on the underside of the roof sheets.
- Absco Sheds and storage units are primarily used for storage of garden equipment such as lawnmowers, wheelbarrows, garden tools etc. Storage items that might be adversely affected by any of the above conditions may require additional protection such as being sealed or covered by plastic sheets and/or stacked above the concrete floor on timber slats.
- Waterproof sealants may be used to offer further protection where required around joins and screw fixings, as can rubber door seals and other products which are available from most hardware outlets.
- Placement of waterproof sealants (silicone) between the base of the shed and concrete slab is not recommended, as this process can have a reverse effect, preventing excess water from escaping, resulting with water accumulating and being trapped inside the shed.
- Absco accepts no responsibility for water entry, floor moisture, condensation or the condition of the Contents inside your Absco steel building arising from any of the pre-mentioned weather conditions.

Lifetime Warranty Statement



This warranty against defects is given by:

Absco Industries (ABN: 77 869 708 678)
Address: PO Box 119 Acacia Ridge QLD 4110
Ph: 1800 029 701
Fax: 07 3344 1191
Email: admin@absco.com.au

Date of issue: 18 November 2022

Details of Manufacturer's Warranty

This product comes with a Lifetime structural warranty from the date of purchase. This warranty also applies where there are missing or damaged parts identified in the parts list referred to in the instruction kit within the product packaging.

Please ensure that you keep this warranty form in a safe place along with your proof of purchase. You can register your warranty online <http://absco sheds.com.au/warranty-details/> or complete the form on the back of this document and mail it back to Absco, along with a copy of your proof of purchase.

The benefits of this warranty are in addition to your rights under the Australian Consumer Law (ACL) and in particular, the guarantees implied under the ACL and any other rights and remedies of the consumer under a similar law in relation to the goods and services to which this warranty relates.

Process of claiming warranty:

To make a claim under the warranty within the warranty period, you will need to contact the manufacturer directly by phone or email:

Contact Number: 1800 029 701
Contact Email: admin@absco.com.au

You will be required to produce proof of purchase (this is at discretion of the manufacturer) at the time of the claim.

The manufacturer bears the cost of replacing the products or spare parts or repairing the products and reasonable direct expenses of claiming under this warranty:

Where parts are replaced, the manufacturer will bear the cost of sending the spare part and will endeavour to deliver it to the customer's nearest reseller within 20 working days for the customer to pick up. At such time the customer may be required to return the alleged faulty parts.

Where assessment is required in case of replacing or repairing the product, the manufacturer will appoint an assessor within 10 working days to identify the alleged defect. The manufacturer will bear the repair costs by appointing a local tradesman. The manufacturer may choose to replace the product if the repair or the cost of repair is not feasible. The replacement product will be available for collection from the nearest reseller within 20 working days. The customer will bear the cost of assembly for the replacement product.

IMPORTANT

1. Manufacturer's Disclosure

This warranty against defects shall not apply in the following situations:

- A) Where the product is not assembled in accordance with the instructions provided in the product kit;
- B) Where the product is used to store corrosive materials such as fertilizer, chlorine etc;
- C) The warranty does NOT cover damage caused by storms, wind, rain, snow or poor foundations;
- D) This warranty does not apply to surface deterioration of panels caused by 'Swarf' (Tiny particles of steel debris left from cutting, grinding or drilling operations) that has not been removed after building construction.
- E) This warranty does not apply to ABSCO products installed in severe coastal, Industrial, or other highly corrosive environments. The warranty does not apply to fasteners (screws, nuts, bolts, rivets, hasps, or bolts).

2. Notes

This product is weatherproof to a certain level; however driving windy rain may cause the product to leak. Condensation may also occur in some weather conditions such as extreme heat or cold. The product should only be used for storing items such as gardening equipment and should not be used for articles that may be prone to damage if they come into contact with moisture.

3. Major Defects

If the manufacturer is satisfied that the defect is a major defect, the purchase price may be refunded in lieu of providing a replacement product or repairing the product.

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

If you do not wish to register your warranty online, complete the below form and email, fax or post this form back to Absco, along with a copy of your proof of purchase.

NAME:

STREET ADDRESS:

POSTAL / ZIP CODE:

STATE / CITY / PROVINCE / REGION:

COUNTRY:

SHED TYPE/CODE:

ORDER NO:

DATE OF PURCHASE:

EMAIL ADDRESS:

DATE REGISTERED:

