

Concrete slab & footings detailed
in engineering drawings pg 17

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.
- Don't cut any components to a different size unless instructed.
- Three types of tek screws are supplied, take care to use the right type for the step.

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

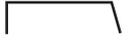
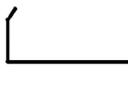
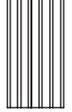
Some tools required include:

- Electric drill with chuck
- 3 and 10 mm drill bits
- Hammer drill
- 12 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.

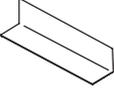
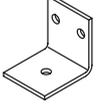
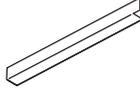
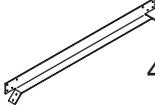
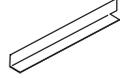
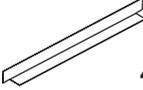
FRAME PACK

| QTY | DESCRIPTION | PART # | CHK | QTY | DESCRIPTION | PART # | CHK |
|-----|---|--------|-----|-----|--|--------|-----|
| 6 |  TRUSS TOP CHORD 1465 mm | C1465 | | 6 |  TRUSS OUTER INFILL 450 mm | C0450 | |
| 3 |  TRUSS BOTTOM CHORD 2900 mm | S2900 | | 6 |  TRUSS OUTER INFILL 600 mm | C0600 | |
| 6 |  TRUSS CENTRE VERTICAL 255 mm | P0255 | | 8 |  ROOF PURLIN 2960 mm | C2960 | |
| 6 |  TRUSS DIAGONAL BRACE 670 mm | S0670 | | 4 |  PURLIN JOINER 200 mm | C0200 | |
| 6 |  TRUSS MID VERTICAL 130 mm | P0130 | | | | | |

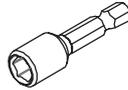
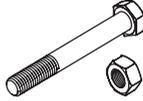
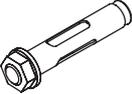
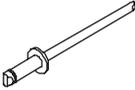
LARGE ITEMS

| QTY | DESCRIPTION | PART # | CHK | QTY | DESCRIPTION | PART # | CHK |
|-----|--|----------|-----|-----|--|----------|-----|
| 4 |  OUTER EDGE BEAM 1585 mm | ZACO 117 | | 6 |  INNER EDGE BEAM 1973 mm | ZACO 118 | |
| 2 |  OUTER EDGE BEAM 2750 mm | ZACO 196 | | 4 |  COLUMN 75 x 75 x 2250 mm | COL 04 | |
| 4 |  GUTTER 3030 mm | TR22 | | 2 |  DOWNPIPE 100 x 75 mm | TR10 | |
| 4 |  BARGE FLASHING 3030 mm | TR06 | | 2 |  RIDGE CAPPING 3030 mm | TR08 | |
| 16 |  STEEL SHEET 1600 mm | 160 | | 8 |  STEEL SHEET 500 mm | 050 | |

COMPONENT LIST

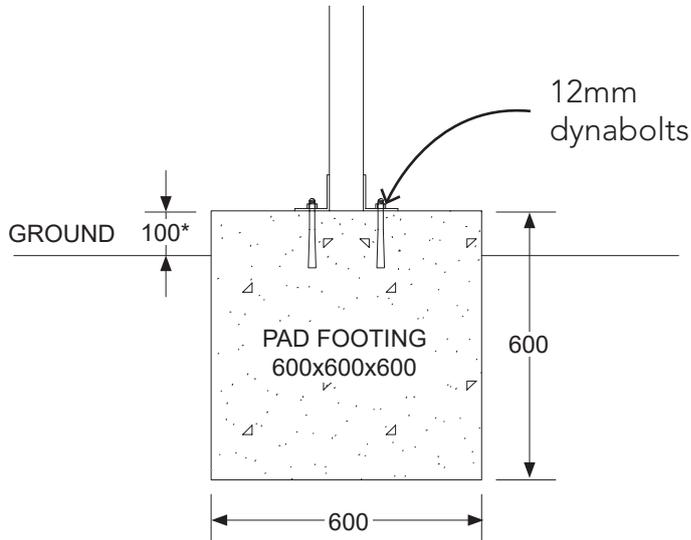
| QTY | DESCRIPTION | PART # | CHK | QTY | DESCRIPTION | PART # | CHK |
|-----|--|-------------|-----|-----|--|-------------|-----|
| 2 |  DOWNPIPE DROP 100 x 75 mm | RWG 18 | | 16 |  GUTTER BRACKET | RWG 06 | |
| 4 |  DOWNPIPE STRAP 450 x 20 mm | TR29 | | 4 |  GUTTER END STOP | TR25 | |
| 3 |  TRUSS TOP JOINER PLATE 160 x 80 | ZACO 201 | | 6 |  TRUSS SIDE JOINER PLATE 70 x 450 mm | ZACO 181 | |
| 12 |  PURLIN BRACKET | BKT 11 | | 14 |  MULTIPURPOSE BRACKET (MPB) | BKT 17 | |
| 4 |  EDGE BEAM END CAP | ZACO 155 | | 16 |  COLUMN BASE BRACKET 12 mm HOLE | BKT 03 | |
| 1 |  ROOF STRAP | FAST 041 | | 3 |  FLY BRACE 40 x 40 x 450 mm | ZACO 134 | |
| 8 |  ANGLE BRACE 40 x 30 x 620 mm | ZACO 232 | | 6 |  FLY BRACE 40 x 40 x 270 mm | ZACO 133 | |
| 4 |  ANGLE BRACE 40 x 40 x 700 mm | ZACO 122 | | | | | |

FITTINGS PACK

| QTY | DESCRIPTION | PART # | CHK | QTY | DESCRIPTION | PART # | CHK |
|-----|--|-------------|-----|-----|--|-------------|-----|
| 1 |  PHILLIPS HD DRIVER BIT | FAST 038 | | 1 |  HEX HD DRIVER BIT | FAST 038 | |
| 16 |  BOLT M10 x 20 mm & NUT | FAST 018 | | 8 |  BOLT M10 x 100 mm & NUT | FAST 099 | |
| 16 |  DYNABOLT 12 x 60 mm | FAST 016 | | 40 |  M10 WASHER | FAST 017 | |
| 750 |  HEX HD TEK SCREW 10-16x16mm | FAST 035 | | 200 |  WAFER HD TEK SCREW | FAST 014 | |
| 300 |  HEX HD TEK SCREW W/ NEO WASHER 10-16x16mm | FAST 033 | | 50 |  POP RIVETS | FAST 009 | |

FOUNDATIONS

Please refer to engineering drawings that specify overall footings layout, slab and post dimensions.



1. Footings (Piers)

Prepare site and mark out positions as per the engineering drawings.

Dig footings then box surrounds to form a level flat concrete surface for fixing framework to.

TIP: *It is recommended that the concrete should be boxed 100 mm above ground level to allow for a future slab.

2. Slab - optional

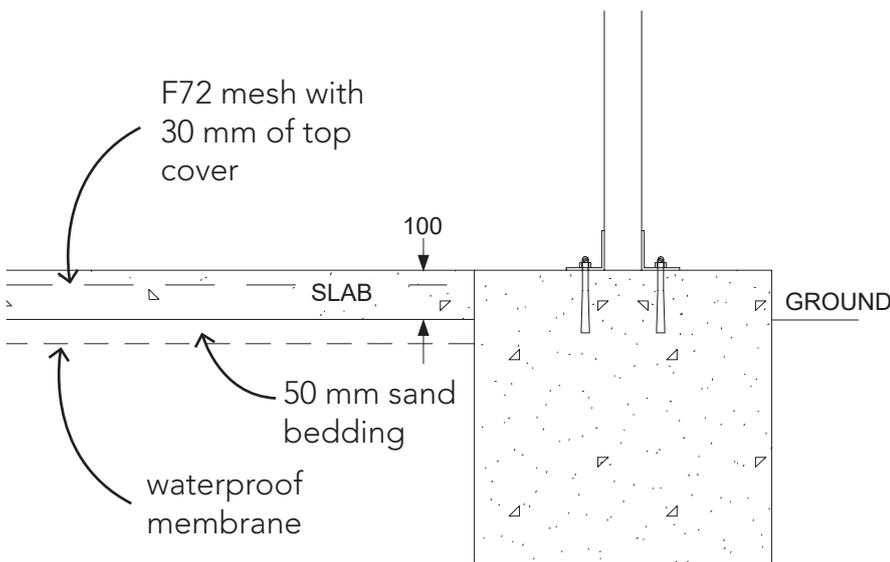
Prepare footings as noted in A.

Pour a perfectly level slab to the dimensions specified in the engineering drawings.

Alternatively you may prefer the slab to finish flush with the outside of the footings.

The slab will be 100 mm thick, reinforced with F72 mesh, laid 30 mm from the top. 50 mm thick sand bedding on a water proof membrane

No edge thickening is required apart from the footings as detailed.

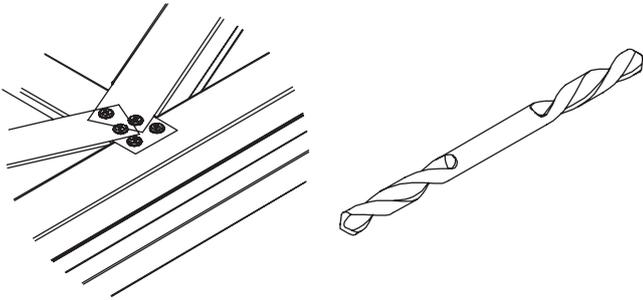


Guide for Connecting Frame Sections

Absco sheds' frame assemblies are supplied with 10-16x16 self drilling wafer head phillips drive tek screws

The wafer head minimises distortion to the sheet cladding once it is fitted to the frame

Ensure that driver bits used to fasten these screws is phillips drive, as similar alternatives (EG. Pozi drive) increases the risk of stripping the head of these screws.

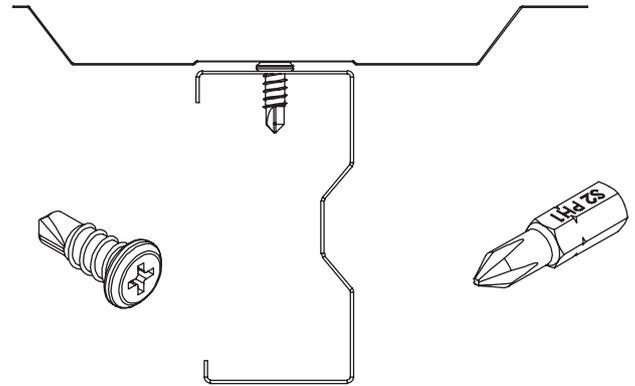


Absco sheds' frame sections are manufactured from light gauge steel, enabling for the notched ends or lengths of one frame section to be spread over the sides of another frame section, boxed frame section or H-section.

Some connections are designed to fasten more than two parts together. Connections may also not feature a defined alignment or physical stop.

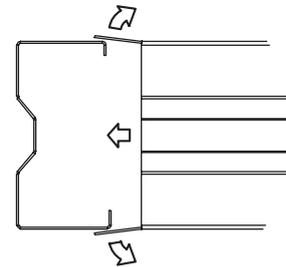
For these reasons, focus on arranging all parts of a frame assembly or subassembly together (to the overall sizes and check measurements nominated) using minimal screws. This allows for easier adjustment to various connections which may be necessary to achieve the overall dimensions and check measurements that are nominated.

Fit the remaining screws once the frame assembly or subassembly is assembled as per the overall dimensions and check measurements that are nominated



Some holes are pre-punched in Absco sheds' frame sections, however the wide range of positions that most fasteners are required for means that the remainder have to be drilled as per the connection being made

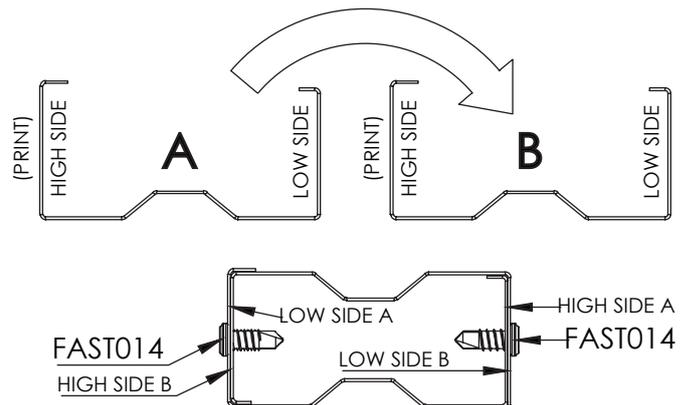
A 3mm drill bit is supplied for pre-drilling holes where self drilling screws may be more difficult to establish holes with (EG. Fitment of purlin brackets).



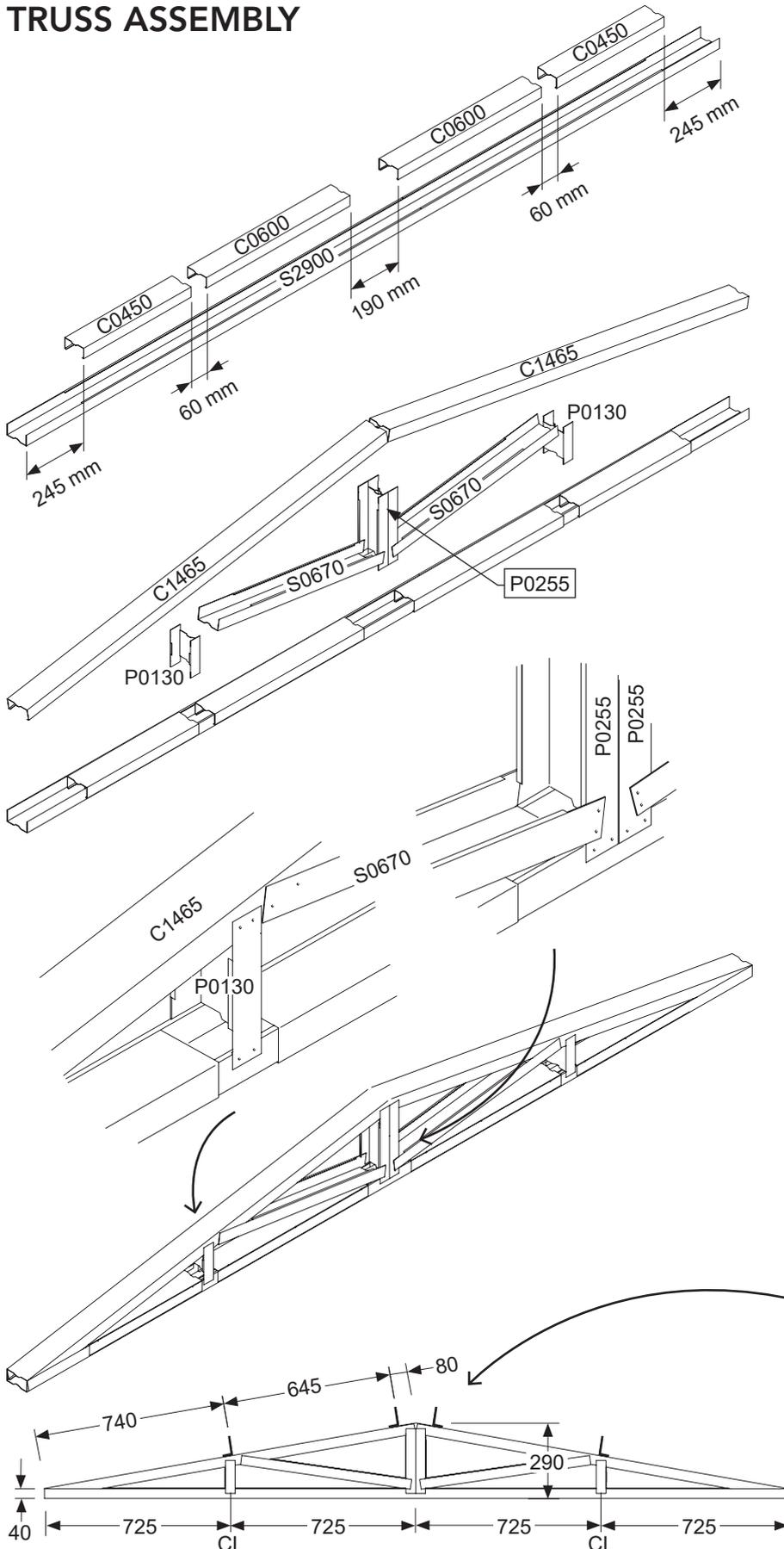
Boxing Frame Sections

Absco sheds' frame sections are designed to nest into one another to create boxed frame sections. Boxed frame sections are only required in some parts of the entire frame assembly.

Boxed frame sections are fastened together using the fast014 tek screws supplied at 300mm centres (unless otherwise stated) along the length of each boxed frame section.



TRUSS ASSEMBLY



1. Take the bottom chord S2900 and box-in the infill pieces at the distance specified. Fasten with wafer head tek screws.

2. Test fit in the rest of the frame members.

Check the verticals are spaced along the bottom chord as shown at the bottom of the page.

Check the height at the centre and make sure it is perpendicular to the bottom chord.

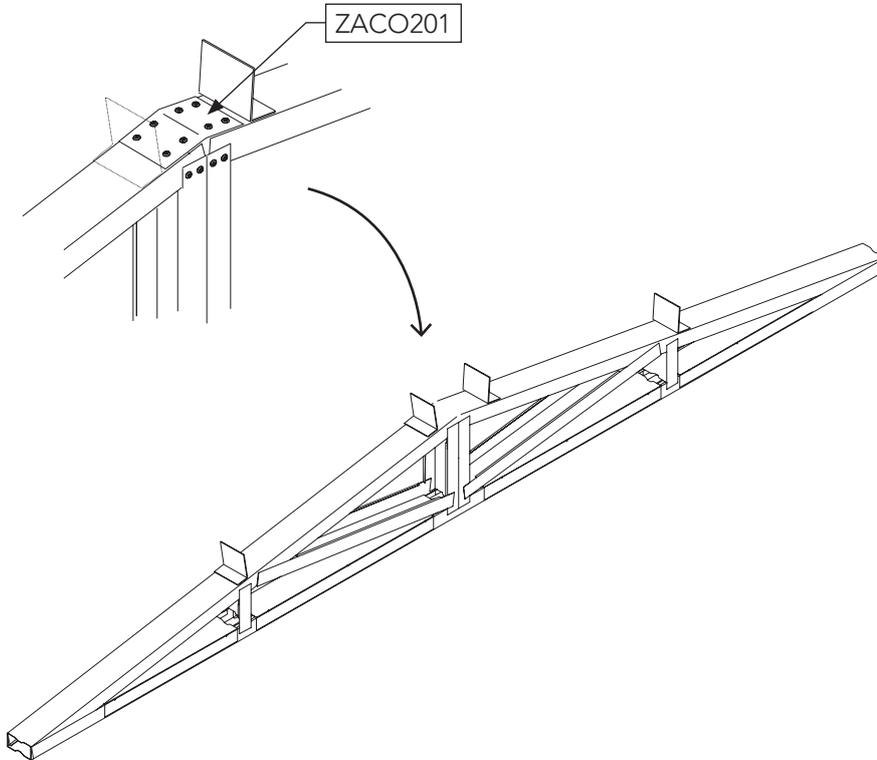
3. Fasten all frame pieces with two wafer head tek screws per tab.

Use six screws per side at the end where the top chord fits inside the bottom chord.

4. Take four purlin brackets BKT11 and mount them to the top chord at the dimensions specified.

Orientate them as shown and fasten with four tek screws into the top chord.

TRUSS ASSEMBLY



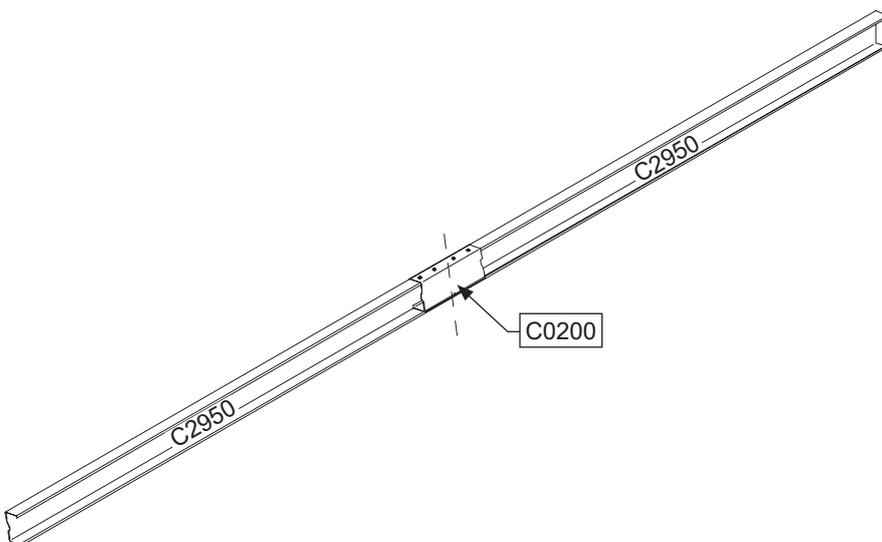
5. Join both top chords with the top joiner plate **ZACO201**.

Fix one side with 4 wafer head tek screws, then bend down the other and fix with 4 more screws.

Repeat these steps until you have three completed trusses.

- This completes the truss assembly -

PURLIN ASSEMBLY



1. Layout the framing pieces as shown.

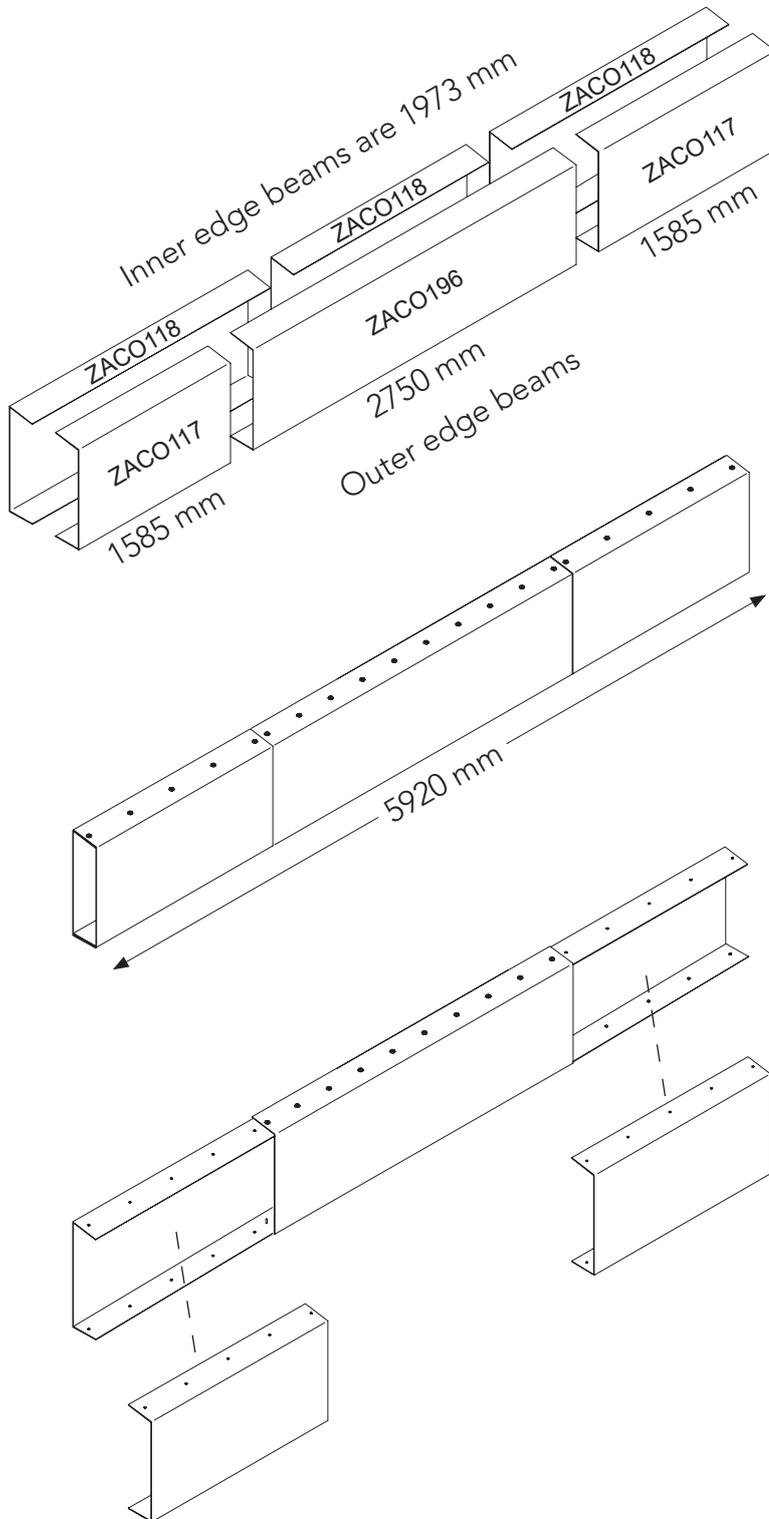
2. Box the **C0200** halfway into one end of a **C2960** and fasten with 2 wafer head tek screws per side.

3. Box the other **C2960** in and fasten as before.

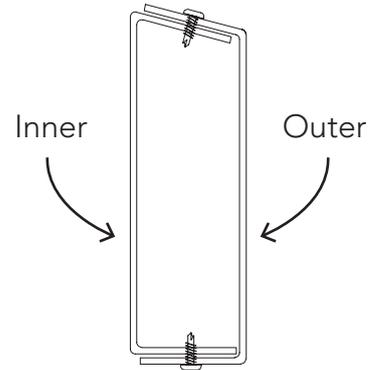
Repeat these steps until you have four completed purlins.

- This completes the purlin assembly -

EDGE BEAM



1. Arrange the six edge beam pieces as shown on the left.



2. Nest the Inner edge beams inside the outers.

Check for straightness.

When happy with the fit and the assembled length is 5920 mm proceed to fastening.

Fasten all with tek screws at 300 centres.

TIP: The top side of the beam needs wafer head teks. The underside of the beam can be hex head tek screws

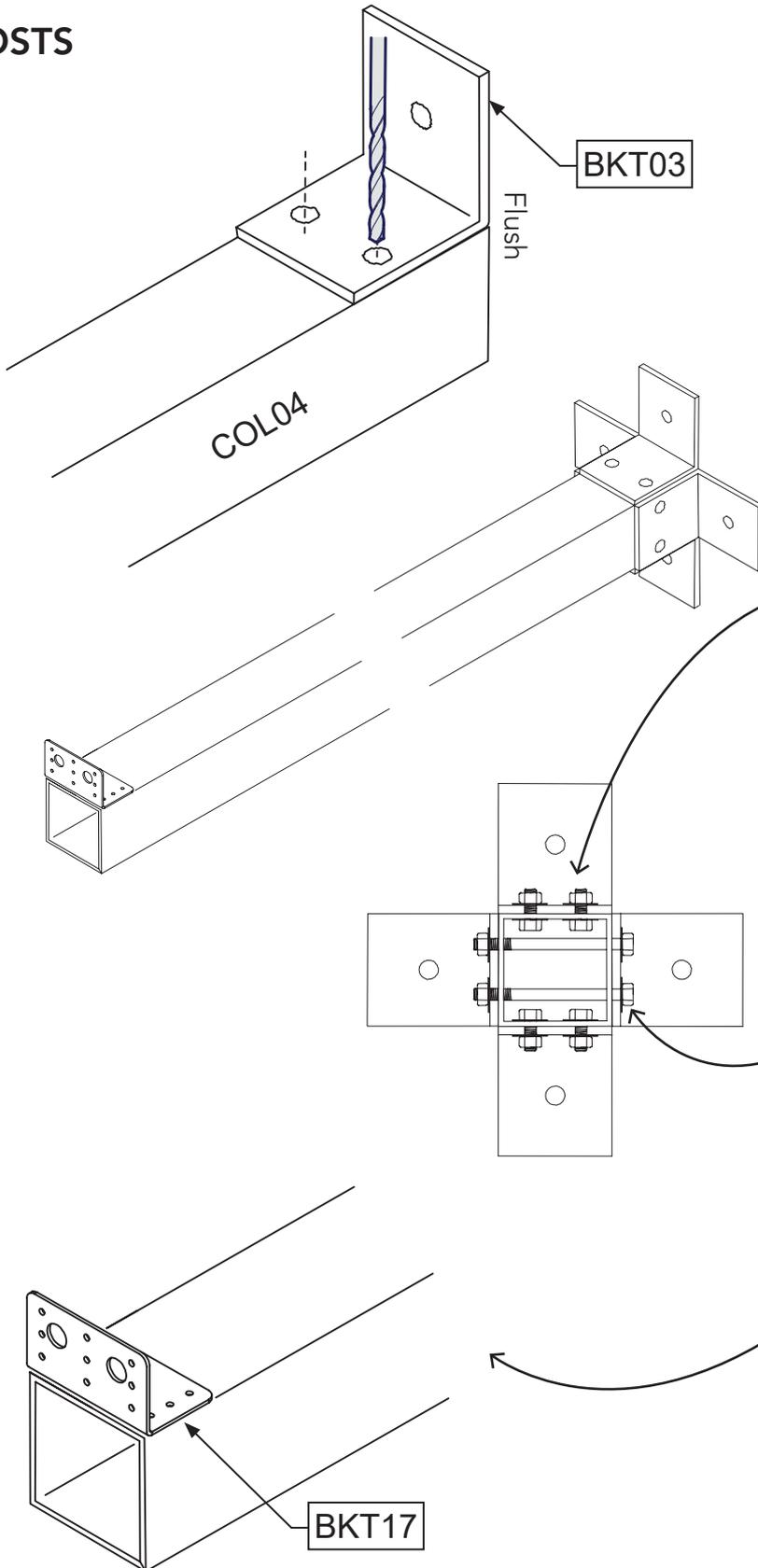
3. Remove all screws for the two outer edge beam pieces **ZACO117**.

This will allow access to fit the columns later.

Repeat these steps again we need two edge beams.

- That completes the side beam assembly -

POSTS



1. Take a COL04 and a BKT03.
Align the bottom edge of the bracket with the end of the post.

Using the two holes in the bracket as a template mark and drill out with a 10mm drill bit.

TIP: Predrilling can make this step easier.

2. Repeat to all four faces of the column.

3. Place a BKT03 and fasten with a pair of M10 x 20mm bolts, nuts and washers.

Poke the bolt through from the inside of the post and use a nut and washer on the outside.

Turn over and repeat for the opposite side.

4. Fasten the remain two BKT03 brackets using a pair of M10 x 100mm bolts, nuts and washers.

These are simple through-bolts.

5. Take a BKT17, align the edge with the top end of the post and fasten with six hex head tek screws.

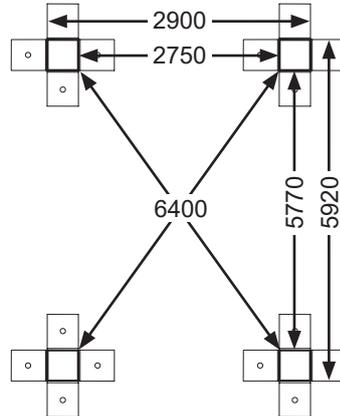
Repeat these steps until you have four columns.

- That completes the post assembly -

NOTE: Throughout frame construction the structure will be unstable until construction is fully completed. Make sure during construction framework is braced using rope or timber props to stabilise and prevent twisting or collapse. Assemblies are too heavy for 1 person to lift unaided.

POSTS

Please refer to engineering drawings that specify concrete footings / slab and post distances.



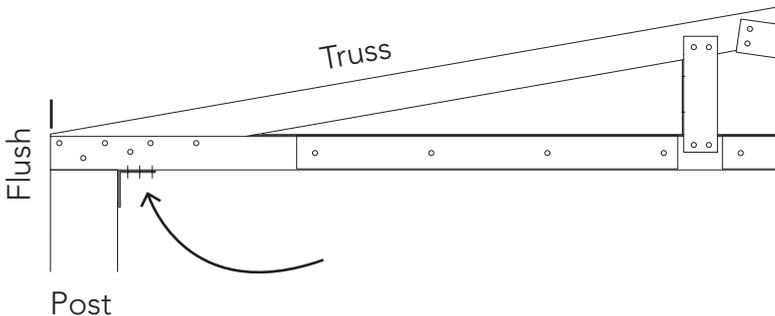
1. Place the posts on the foundation, use the dimensions shown to confirm correct placement.

Position each column with the top bracket to the centre.

Mark out the base bracket hole positions on the concrete.

Using a 12mm masonry drill bit, drill the anchor holes and secure.

FITTING END TRUSS TO POSTS



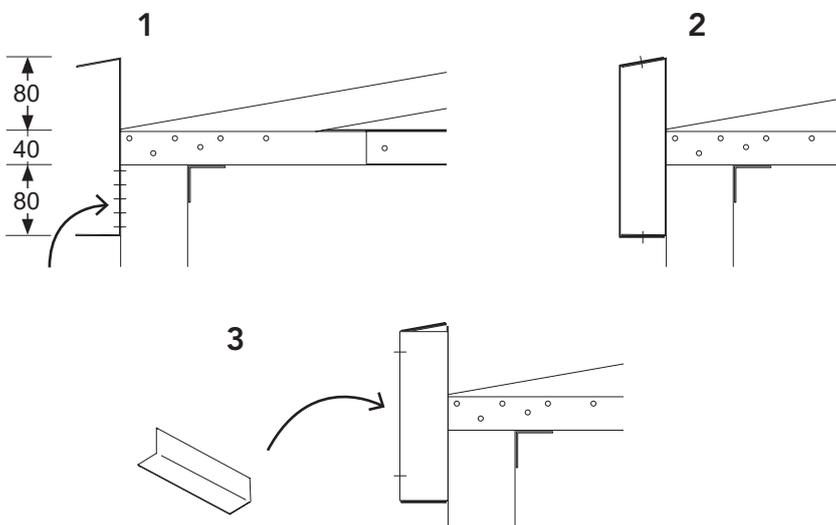
Safely lift a truss and place on top of a pair of posts.

Make sure the outside of post and end of truss are flush.

Fasten with 6 hex head tek screws in the MPB and into the truss.

Do this for both end trusses.

FITTING EDGE BEAM



1. Safely lift and align the edge beam as shown. It has to sit 80 mm below the post as shown.

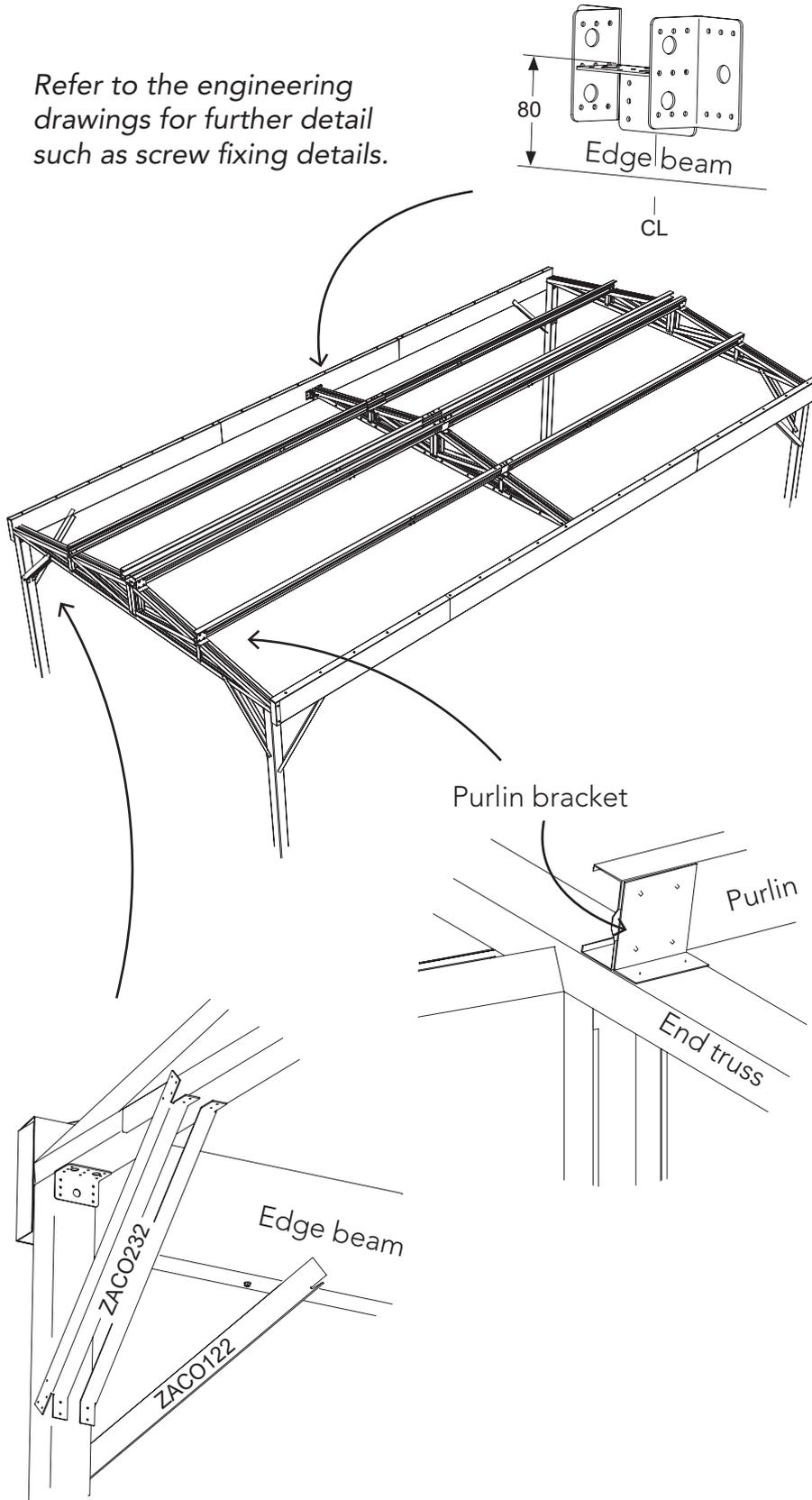
Fasten to the column with 10 hex head tek screws.

2. After both ends of the beam are secured, refit the outer pieces of edge beam **ZACO117**. Remember wafer head teks for the top side.

3. Close both ends of the edge beam with an end cap **ZACO155** and two tek screws.

FRAME ASSEMBLY

Refer to the engineering drawings for further detail such as screw fixing details.



1. Centre Truss

Secure centre truss to edge beams.

Measure in 2960 mm from one end of the edge beam to mark the centreline of the truss.

Secure three **MPB** to each side as shown with 6 screws. Truss must sit 80 mm up from the underside of the edge beam.

Repeat for other beam then safely lift truss into position and secure with hex head tek screws.

NOTE: You will have to remove wafer head tek screws where they interfere with the **MPBs**.

2. Post Angle Braces

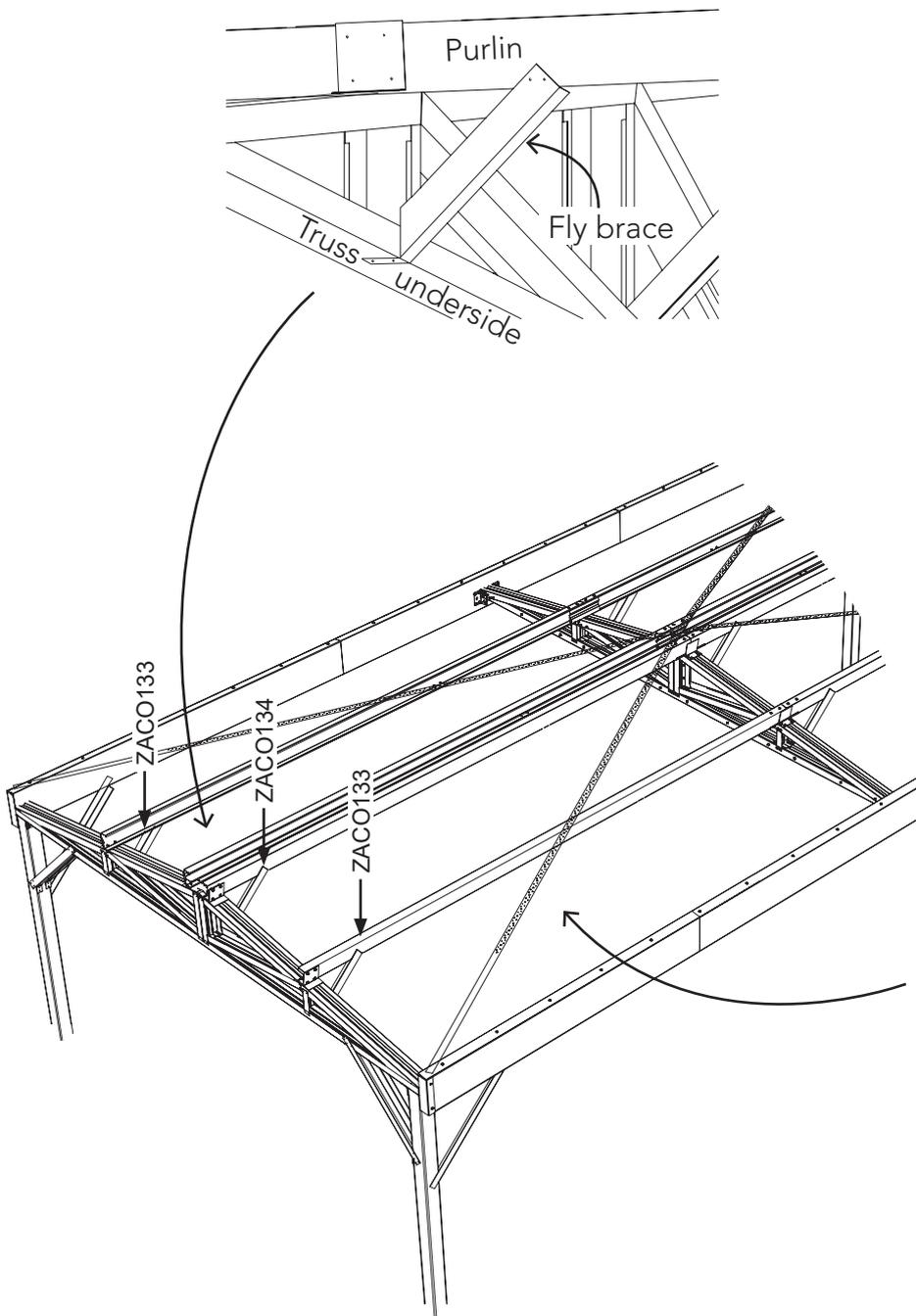
- Use two **ZACO232** angle braces to sandwich post and truss. Fasten with 6 tek screws per end. Make sure to use wafer head tek screws to outside of truss where sheet will cover later.
- Position **ZACO122** inside face of edge beam to outside face of post. Fasten with 3 hex head tek screws per end.

NOTE: Ensure all posts are vertical and make sure all braces are fastened at 45 degrees.

3. Purlins

Place all four purlins on 'uphill' side of brackets and secure with 4 hex head tek screws per bracket.

FRAME ASSEMBLY



4. Fly Bracing

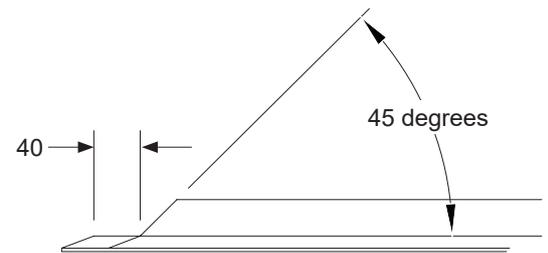
Fly bracing angles are positioned at 45 degrees from the roof purlin to the underside of each truss.

Each truss has the following fly braces:

2x 270 mm **ZACO133** for mid purlins

1x 450 mm **ZACO134** for 1 centre purlin

Notch one end of fly brace as shown. This is to be bent to suit and fit to the underside of truss with two hex head tek screws.



5. Roof strapping

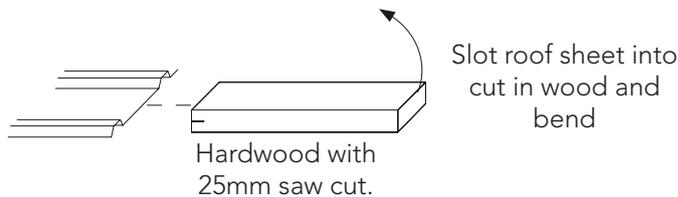
Lay roof strapping diagonally over the top of the structure.

Secure one end with wafer head tek screws into the edge beam and clamp the other end in position for now.

Use a spirit level and square to check structure. Also check dynabolts are fully tightened.

Tension the strapping to equalise diagonal measurements. Secure strapping to all trusses with a tek screw where they overlap using wafer head tek screws.

ROOF SHEETS



Option. On the ground, lay out the roof sheeting as if they were on the frame already. Using a piece of wood, as pictured, turn up the pans of each sheet at the end that's going to be at the ridge.

This will help prevent rainwater entering the structure during windy conditions.

1. When laying sheets:

- Give first sheet a 20mm overhang of the end truss
- All sheets will overhang the edge beam by min 30mm for the gutters.

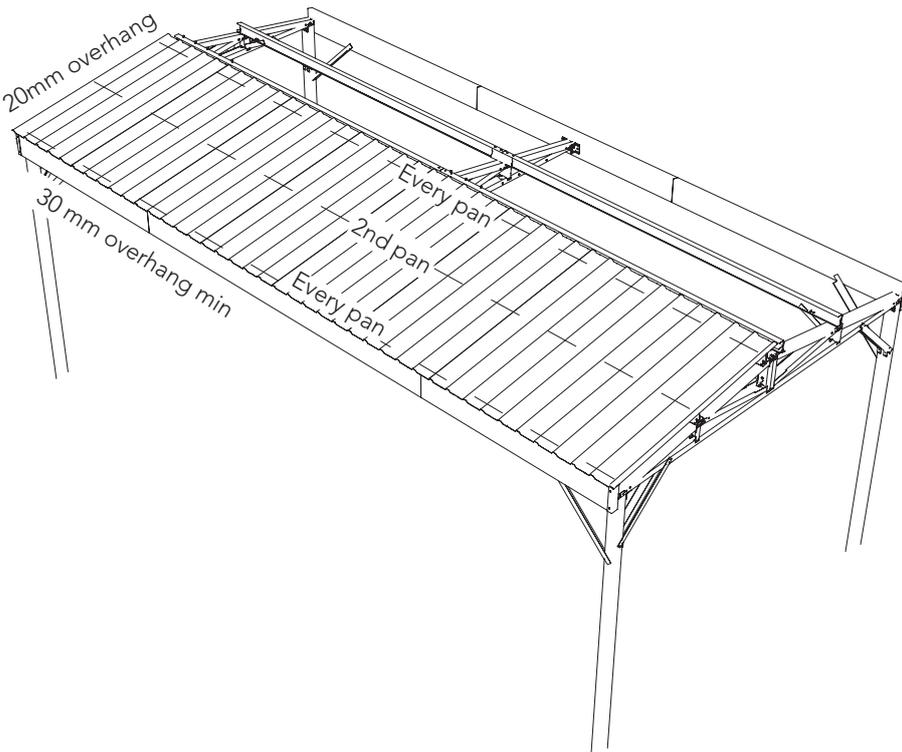
2. Use Hex head tek screw with neoprene washer FAST035 at every pan to top purlin and edge beam.

Use one Hex head tek screw with neoprene washer at **every second pan** to the mid purlin.

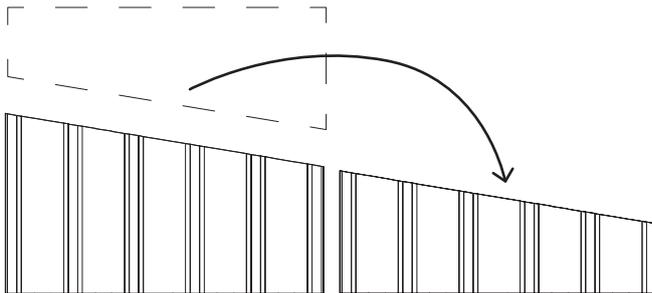
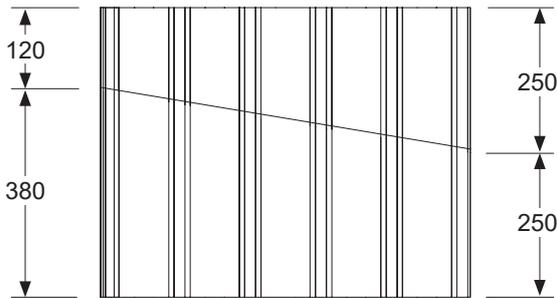
NOTE: Lift and fasten off a single sheet at a time, this will mean you can reach all screw positions easily from a platform ladder.

Avoid walking on the roof so sheeting is not damaged. If it is necessary, walk only on the pans at purlin locations after sheets have been secured.

3. Repeat for the other side.



GABLE SHEETS



1. Take a **050** sheet and using a straight edge, mark the angled line and carefully cut using tin snips.

TIP: This cut edge will be covered by barge flashing.

2. You'll have two pieces.

That's the sheets done for the right side of a gable end.

Repeat the last steps, with the angle going the other way, to make the two left sheets.

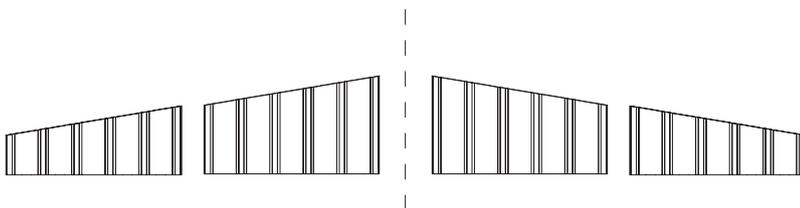
3. Repeat steps until you have enough pieces to sheet the front and rear of the carport. 8 sheets total.

Fitting sheets to framing.

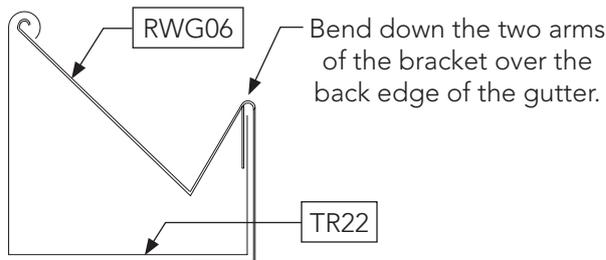
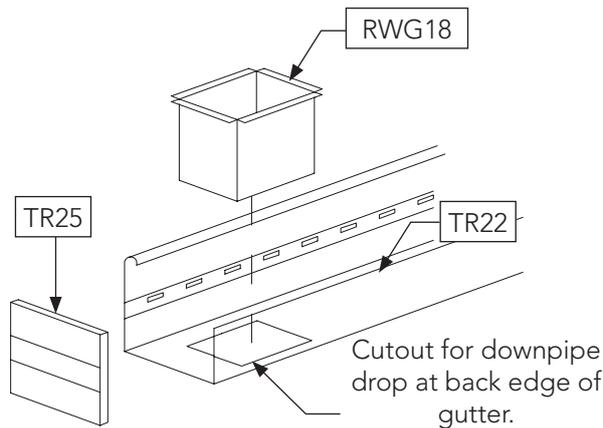
Start with the centre-most sheets and align the straight edge with the bottom of the truss.

Every second pan fasten using a hex head tek screw. Make sure to **not** use the neoprene washers here.

Avoid screw placement too close to existing truss screws. These can distort the sheeting.



GUTTER AND DOWNPIPE



1. Attach end caps and join lengths of gutter **TR22**, to match the length of the edge beam by notching the roller edge of one to allow the other to slide into it.

Put silicone in the joint and then use rivets, **FAST009**, to fasten the sections together.

2. Repeat this for the other side.

3. Mark the rectangular cutout to suit the downpipe drop **RWG18** at the end you select.

4. Remove material and fix **RWG18** with silicone and rivets.

5. Mark a line 110mm down from the top of the edge beam at both ends.

6. Run a string line between these marks. This is a reference to align the bottom position of the gutter brackets, **RWG06**.

7. **RWG06** are to be fixed to the edge beam at either end and spaced equally along the length.

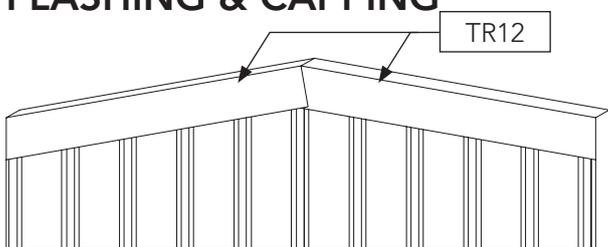
You may adjust bracket height to allow for a slight fall to the downpipe position.

8. Fit gutter onto all brackets at once. Push top of bracket into outer roll of gutter and bend small support arm down to hold the inner face.

9. Rivet the brackets to the gutter through the bottom hole of each bracket.

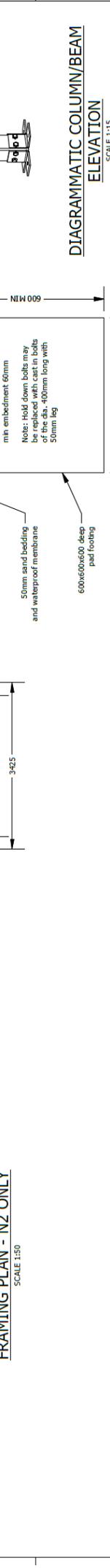
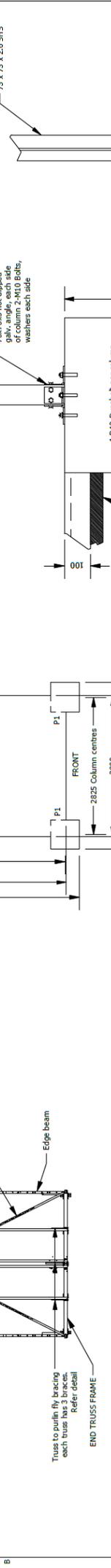
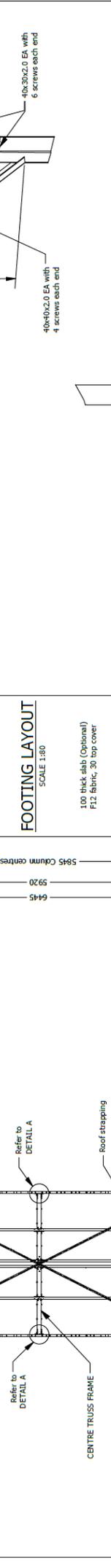
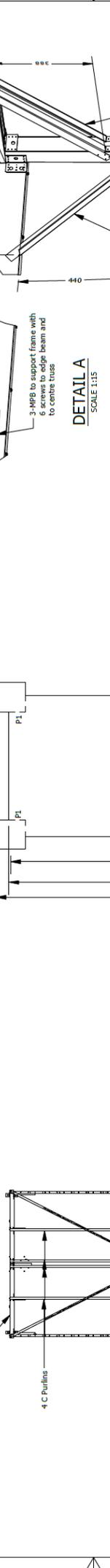
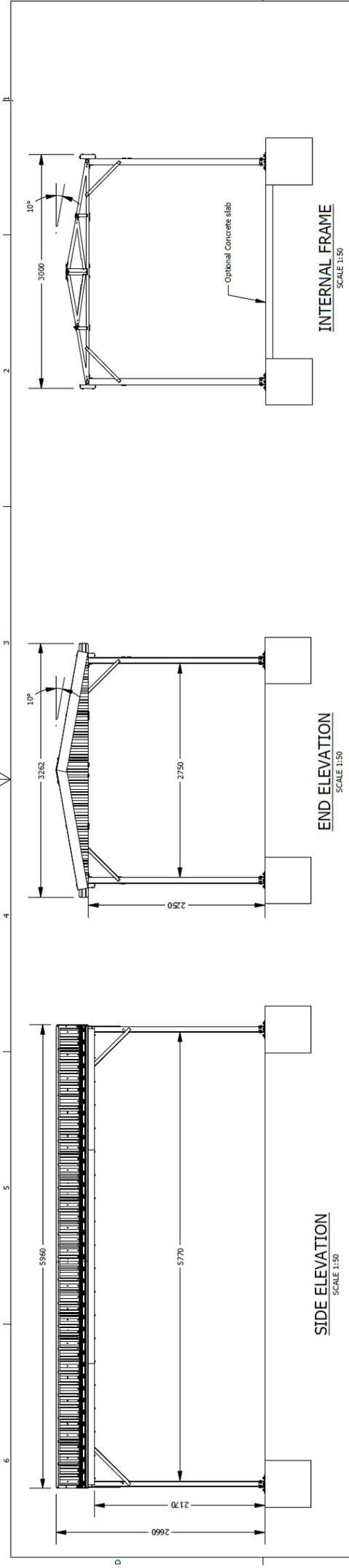
10. Fit downpipes to drops with silicone and rivets. Secure to posts with two downpipe straps bent to suit.

FLASHING & CAPPING

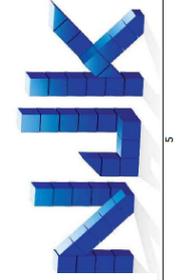


Fit barge capping **TR12** to the front and rear gables, fixing where there is a purlin beneath it using tek screws with neo washers.

Lay the ridge capping **TR08** centrally on the roof, overlapping the sections to make the same length as the roof sheeting. Safely fix the capping to every second rib with neo teks.



| | | | | | |
|---------------|--|-------------------------|--|-------------------------------------|--|
| DRAWN SJC | | 06205-003-CP07 | | 3m x 6m x 2.7m GABLE CARPORT SINGLE | |
| CHECKED | | GROUP 1 - N2 WIND CLASS | | GCPSN2 | |
| TECH APPROVED | | VARIOUS | | REV 2023-1 | |
| SIZE | | SCALE | | SHEET | |
| A3 | | A3 | | 1 OF 1 | |



[NJJK Consulting Engineers](http://www.njks.com.au)
 Client: ABCSCO Sheds
 Project: 3x6x2.7m Gable Carport Single
 Date: 06 June 2023



This document contains confidential and proprietary information. It is to be used only for the project or in part, without written authorization from ABCSCO INDUSTRIES.

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: _____

