

For construction in non-cyclonic areas
Wind rating: N2 as per AS4055-2012



Download the Absco
Sheds Assembly App
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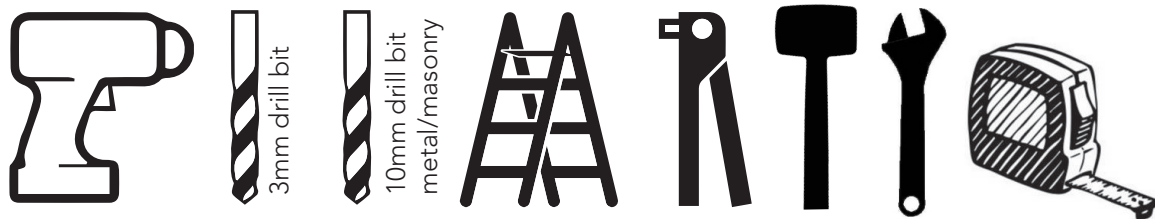
GENERAL INSTRUCTIONS

- Before commencing any assembly, read through these instructions in detail to gain a thorough understanding of assembly methods and associated details.
- Unpack the carton and carefully identify and check off all the parts against the parts described and illustrated on "COMPONENTS PACKING LIST" pages.
- Local authority approval must be obtained prior to construction of the shed. Once you have selected your site you will need to lodge a site plan to your local council.

SITE PREPARATION

- The site for the shed must be level. An uneven surface may result in misalignment of parts.
- The shed shall be erected on top of a reinforced concrete slab and anchored down appropriately. **If using a rebated slab ensure that all frame uprights are trimmed to suit rebate.** It is recommended that engineering services are engaged for further or alternate foundation specifications.

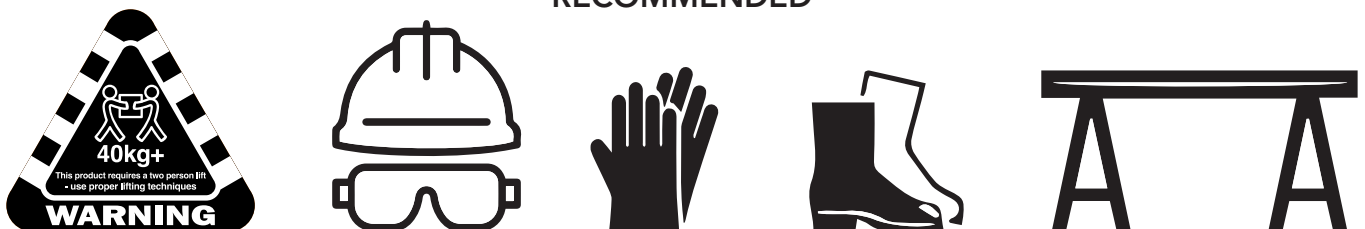
TOOLS REQUIRED



SAFETY NOTES

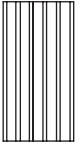
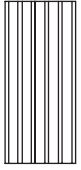
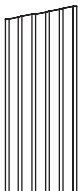
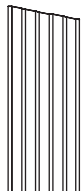
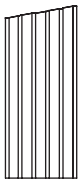
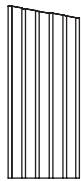
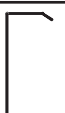








- Some parts may have sharp edges. It is advisable to wear gloves when handling these items and safety glasses if drilling holes. Sensible shoes are highly recommended.
- Do not erect your shed in windy conditions.
- It is highly recommended to erect the shed with two or more people.

RECOMMENDED












COMPONENT PACKING LIST

Check off all components.





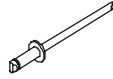



SHEET PACK- 3030RSSP							
QTY	COMPONENT DESCRIPTION	PART No.	CHK	QTY	COMPONENT DESCRIPTION	PART No.	CHK
8	 STEEL SHEET 1580 x 773mm	158S		4	 STEEL SHEET 2140 x 773mm	214	
2	 STEEL SHEET 2400 x 773mm	2400L		2	 STEEL SHEET 2400 x 773mm	2400R	
2	 STEEL SHEET 2270 x 773mm	2270L		2	 STEEL SHEET 2270 x 773mm	2270R	
GUTTER AND TRIM							
QTY	COMPONENT DESCRIPTION	PART No.	CHK	QTY	COMPONENT DESCRIPTION	PART No.	CHK
4	 BARGE CAPPING L=1585mm	TR06		1	 RIDGE CAPPING L=3030mm	TR08	
2	 GUTTER L=3030mm	TR22		4	 GUTTER STOP END	TR25	
2	 DOWNPIPE 100 x 75 L = 2400mm	TR10		4	 DOWNPIPE STRAP	TR29	
6	 GUTTER BRACKET	RWG06		2	 DOWNPIPE DROP	RWG18	
2	 L FLASHING 35 x 35 L=1585mm	TR19					

COMPONENT PACKING LIST

Check off all components.

FRAME PACK - 3030RSFP							
QTY	COMPONENT DESCRIPTION	PART No.	CHK	QTY	COMPONENT DESCRIPTION	PART No.	CHK
14	 FRAME SECTION L = 2946mm	C2946		4	 FRAME SECTION L = 2295mm	C2295	
8	 FRAME SECTION L = 1465mm	K1465		6	 FRAME SECTION L = 2060mm	C2060	
4	 FRAME SECTION L = 1415mm	K1415		4	 FRAME SECTION L = 100mm	C0100	
4	 FRAME SECTION L = 1490mm	M1490					
1	 EDGE BEAM OUTER L = 2950mm	ZACO218		1	 EDGE BEAM INNER L = 2950mm	ZACO219	

FITTINGS & ACCESSORIES

QTY	COMPONENT DESCRIPTION	PART No.	CHK	QTY	COMPONENT DESCRIPTION	PART No.	CHK
1	INSTRUCTION MANUAL	IM		2	 EDGE BEAM END CAP	ZACO155	
14	 ROOF PURLIN BRACKET	BKT11		9	 MULTIPURPOSE BRACKET	BKT17	
4	 PURLIN CONNECTION PLATE	ZACO200		100	 4-3 SS POP RIVET	FAST009	
450	 WAFER HEAD TEK SCREW 10G-16x16	FAST014		400	 HEX HEAD TEK SCREW 10G-16x16	FAST035	
150	 NEOPRENE WASHER	FAST043		7	M10 DYNABOLT	FAST015	

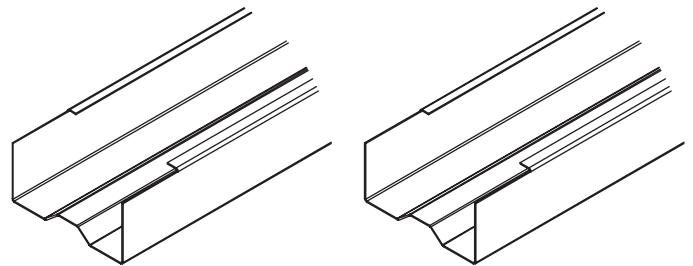
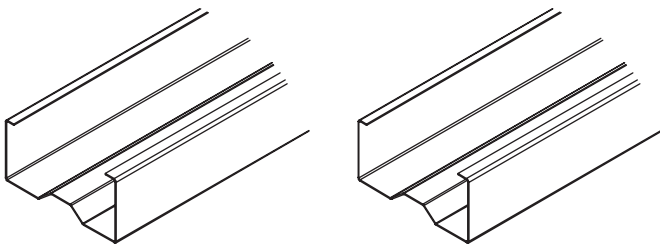
Frame Section Identification Guide

There are several types of frame section, each featuring a different combination of notches and/or holes. Frame sections are coded with a letter representing the type of frame section, followed by the length of the frame section in millimeters.

EG: C2960 = Straight cut both ends with overall length of 2960mm

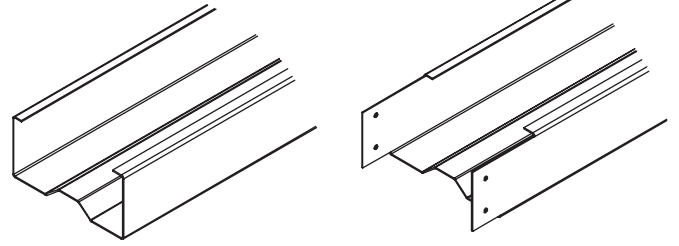
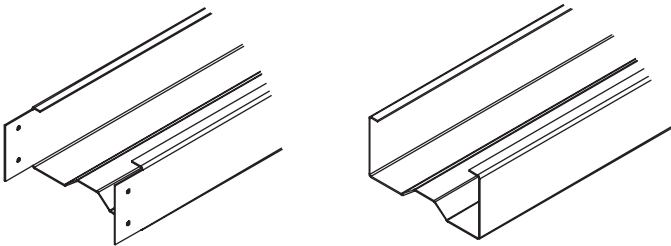
C-TYPE - Straight cut at both ends

M-TYPE - 45mm lip notch at both ends



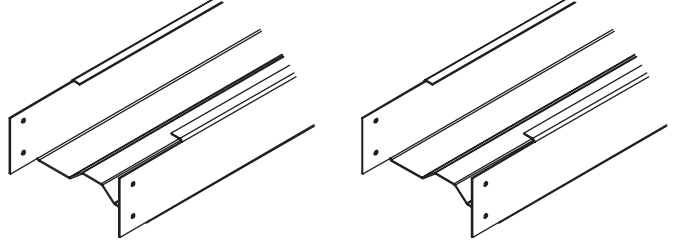
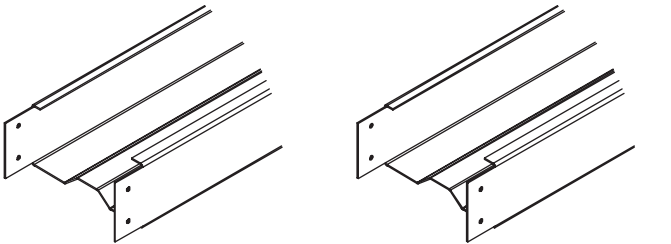
J-TYPE - Straight cut at one end: 20mm tab notch with holes at other end

N-TYPE - Straight cut at one end: 45mm lip notch/20mm tab notch with holes at other end



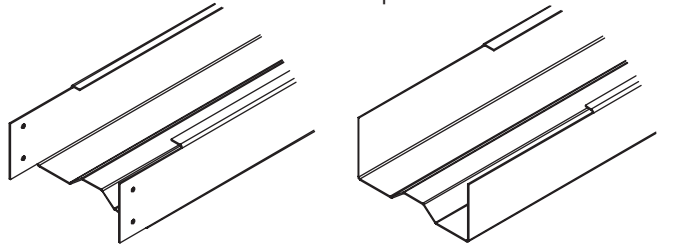
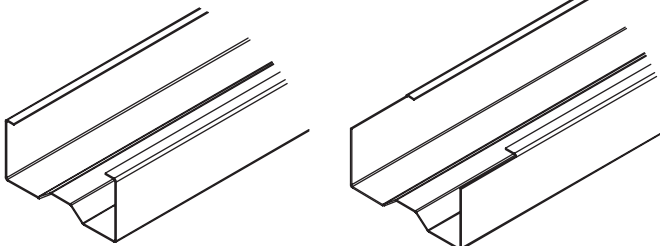
K-TYPE - 20mm tab notch with holes at both ends

P-TYPE - 45mm lip notch/20mm tab notch with holes at both ends.



L-TYPE - Straight cut at one end: 45mm lip notch at other end.

R-TYPE - 45mm lip notch/20mm tab notch with holes at one end: 90mm lip notch at other end.



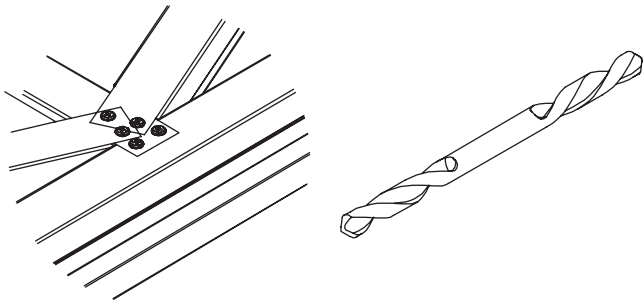
S-TYPE - Variable notching and/or holes nominated in parts checklist

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.

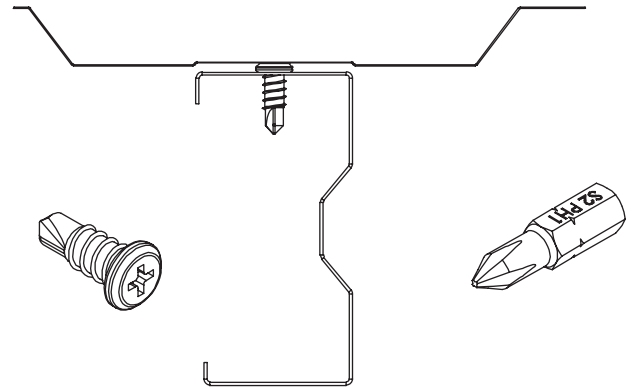


Absco sheds' frame sections are manufactured from light gauge steel, enabling for the notched ends or lengths of one frame section to be spread over the sides of another frame section, boxed frame section or H-section.

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

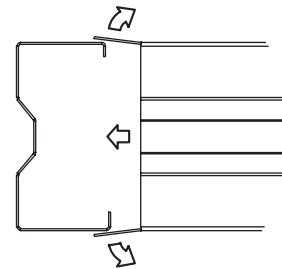
For these reasons, focus on arranging all parts of a frame assembly or subassembly together (to the overall sizes and check measurements nominated) using minimal screws. This allows for easier adjustment to various connections which may be necessary to achieve the overall dimensions and check measurements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

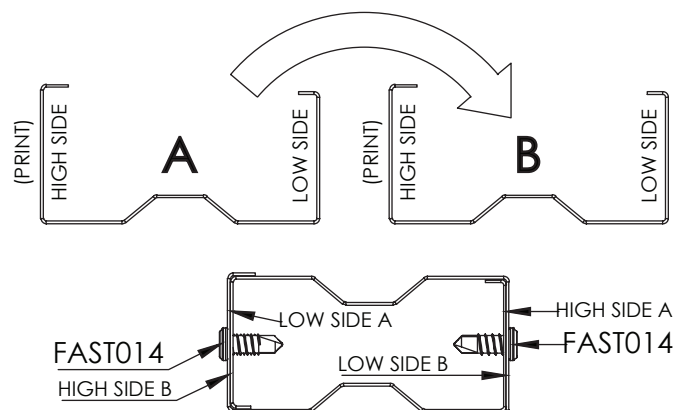
A 3mm drill bit is supplied for pre-drilling holes where self drilling screws may be more difficult to establish holes with (EG. Fitment of purlin brackets).



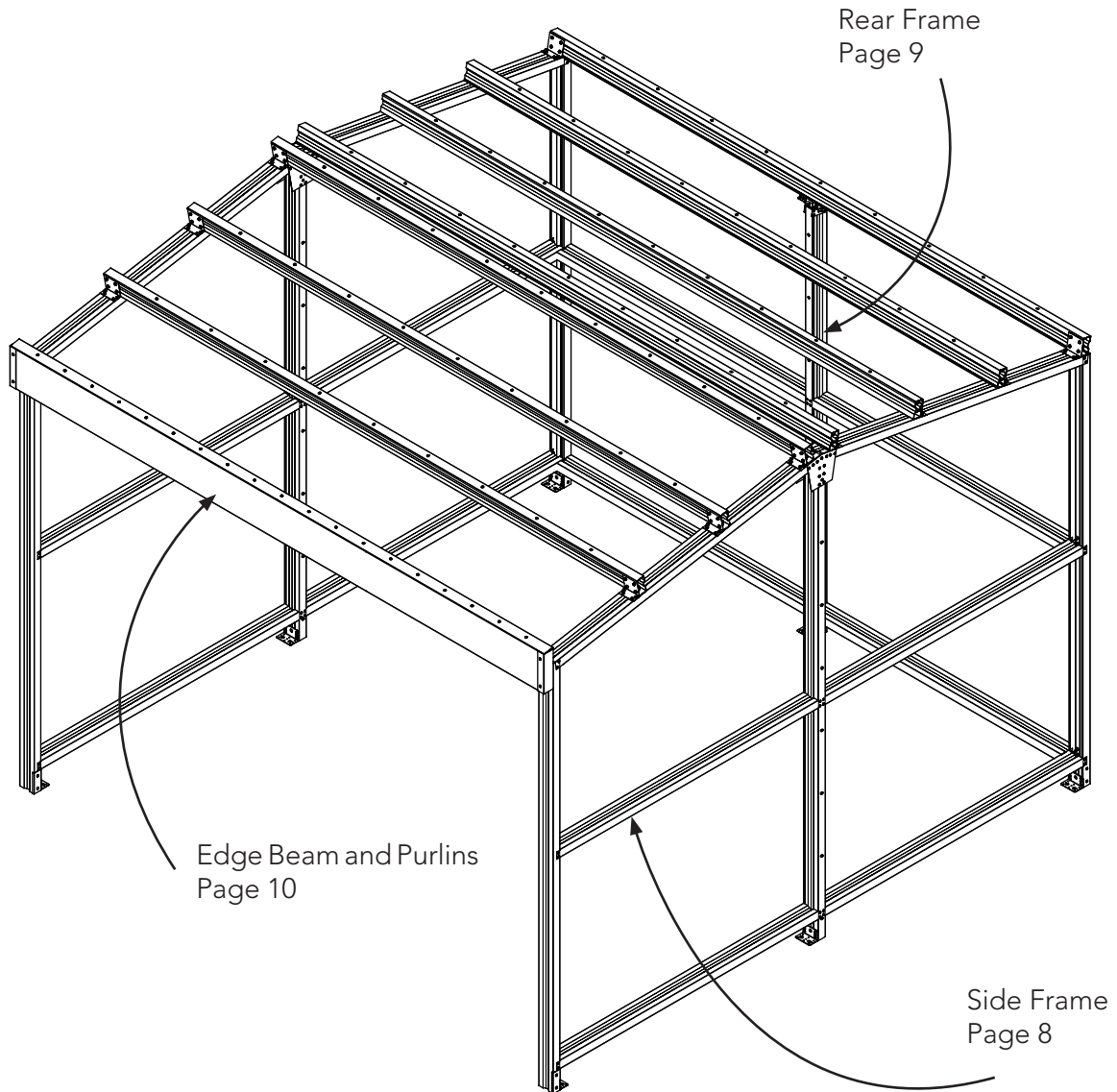
Boxing Frame Sections

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 along the length of each boxed frame section.



Overview Of Internal Frame



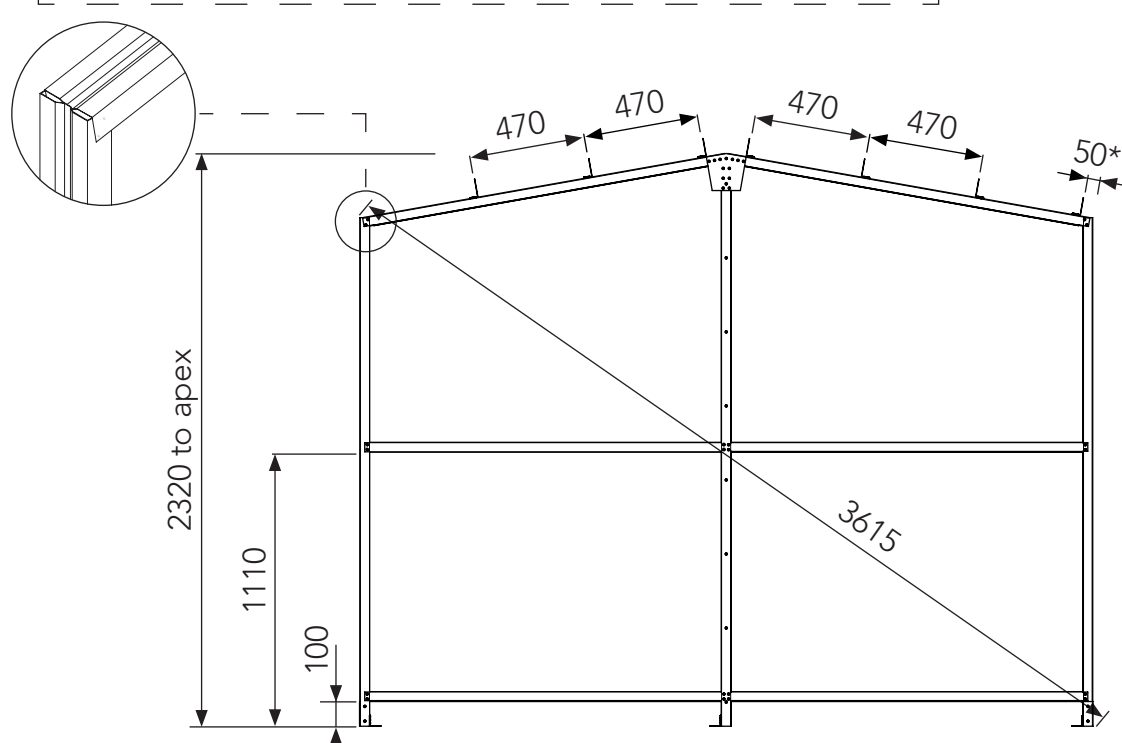
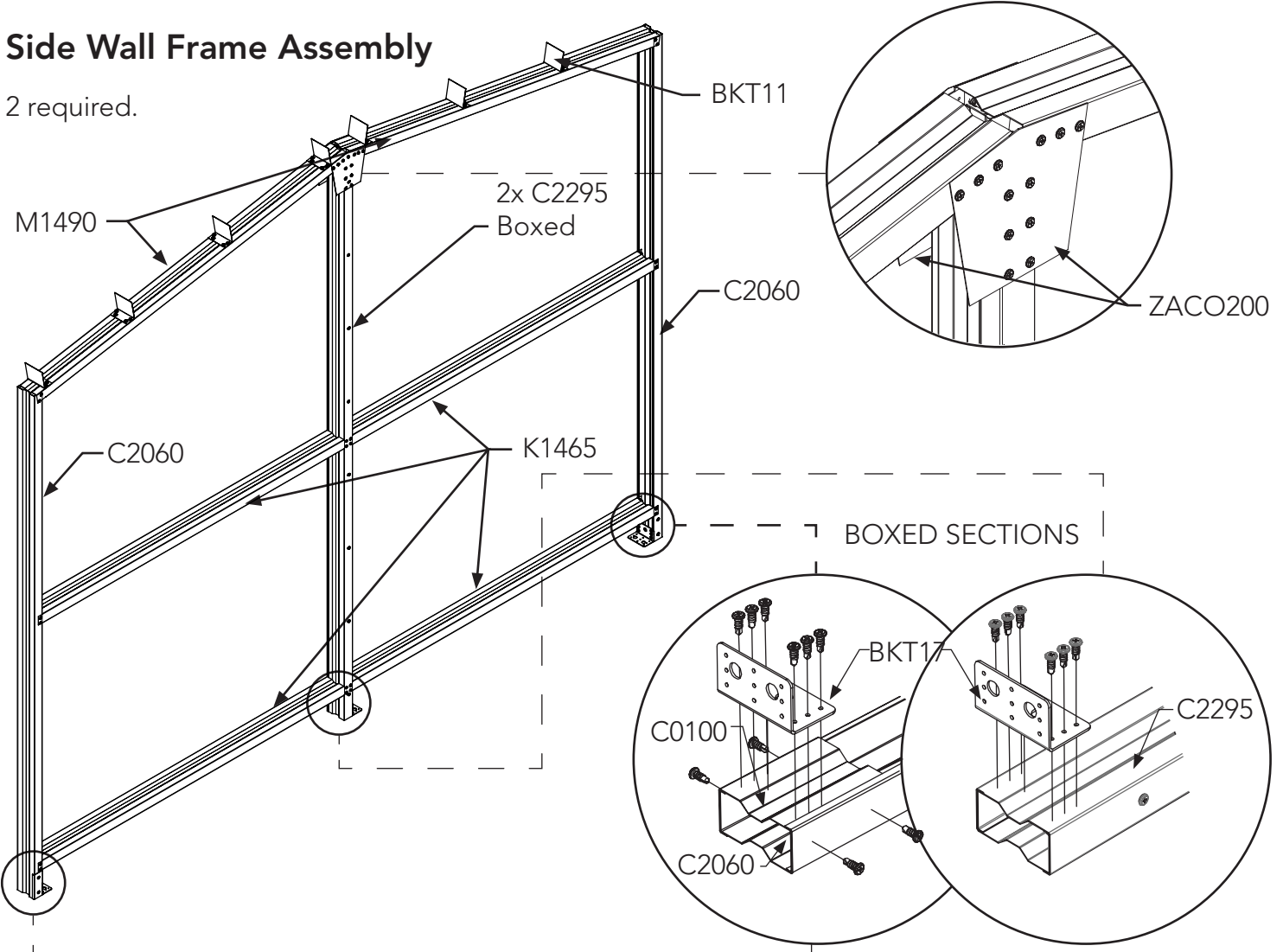
Sheeting
Page 14

Guttering and downpipes
Page 17

Trim
Page 18

Side Wall Frame Assembly

2 required.

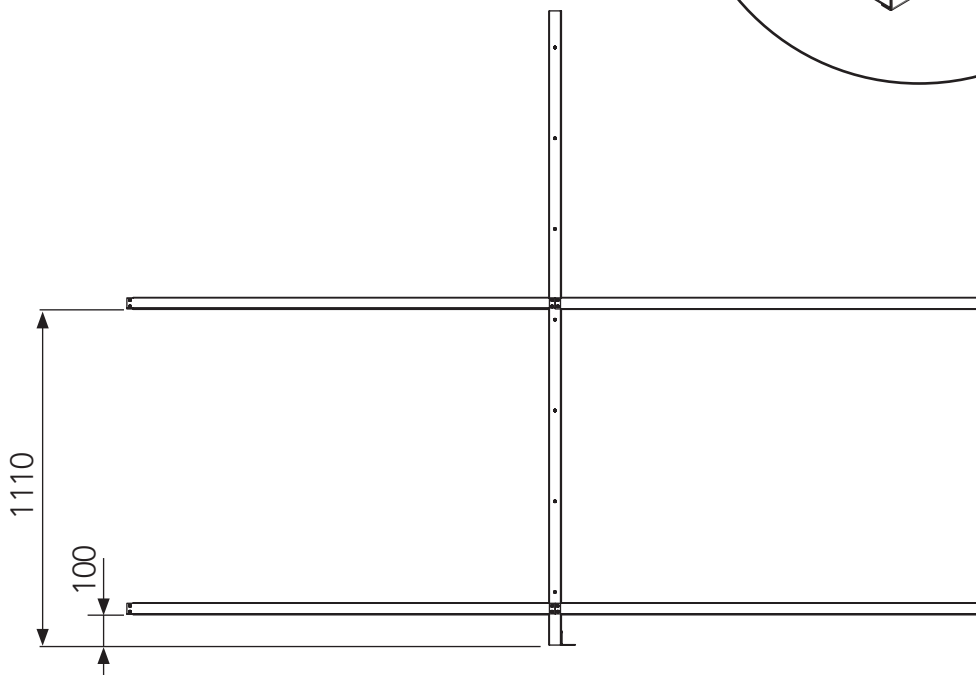
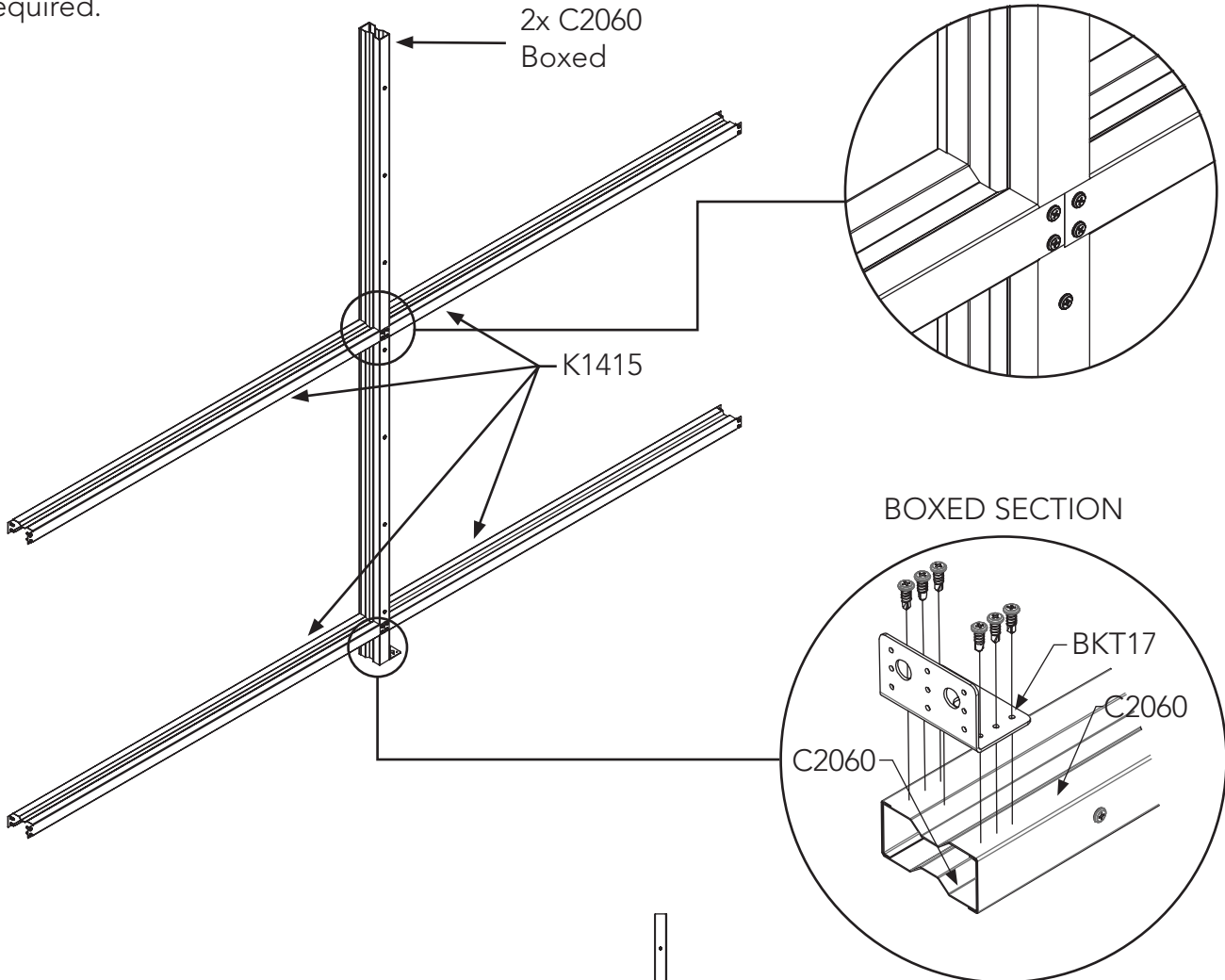


Align centre BKT11 with edge of ZACO200 as shown.

***NOTE:**
One side will have a fourth bracket to mount the rear purlin. It is flipped around so the purlin is positioned on the outside.

Rear Frame Assembly

1 required.

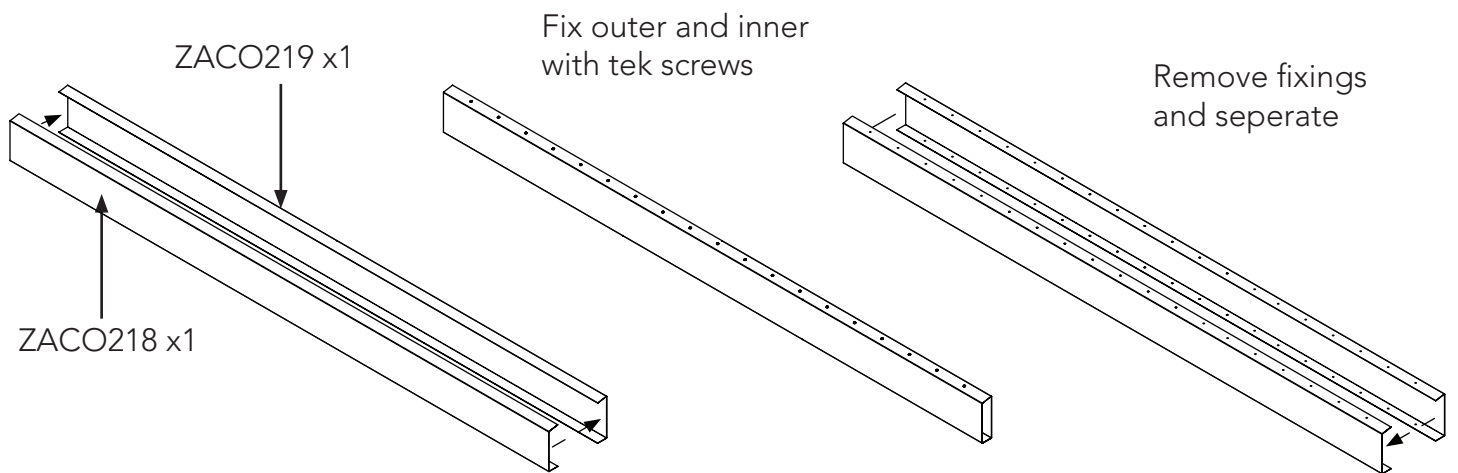
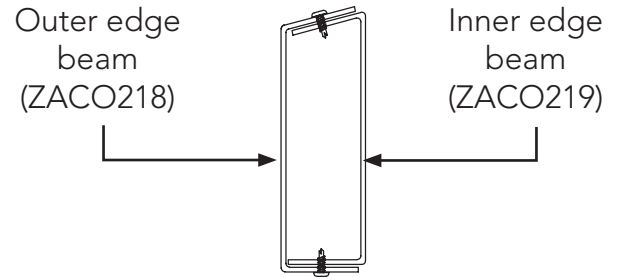


Prepare Edge Beam

Assemble the Outer beam and Inner beam on the ground first using wafer head tek screws (FAST014) at 150mm spacings.

Remove the outer (ZACO218) before installing to the wall frames.

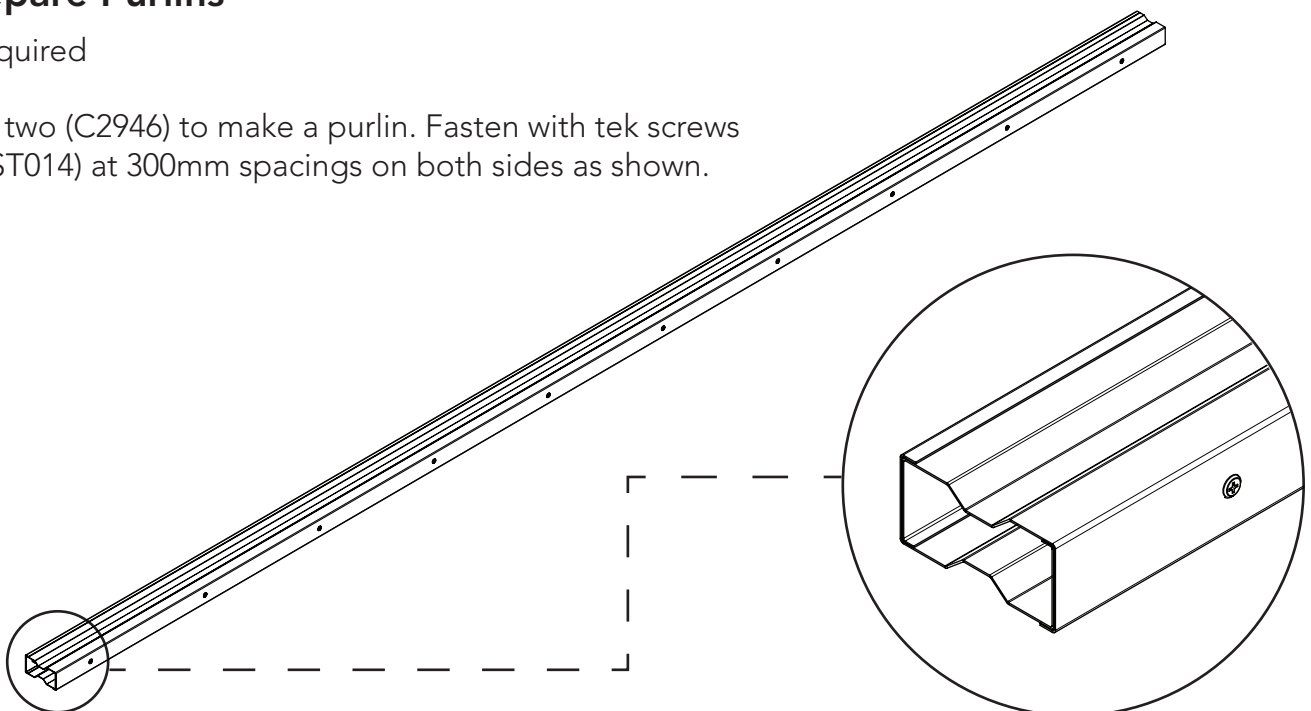
This will makes fastening the easier as the holes will already be there and will align.



Prepare Purlins

7 required

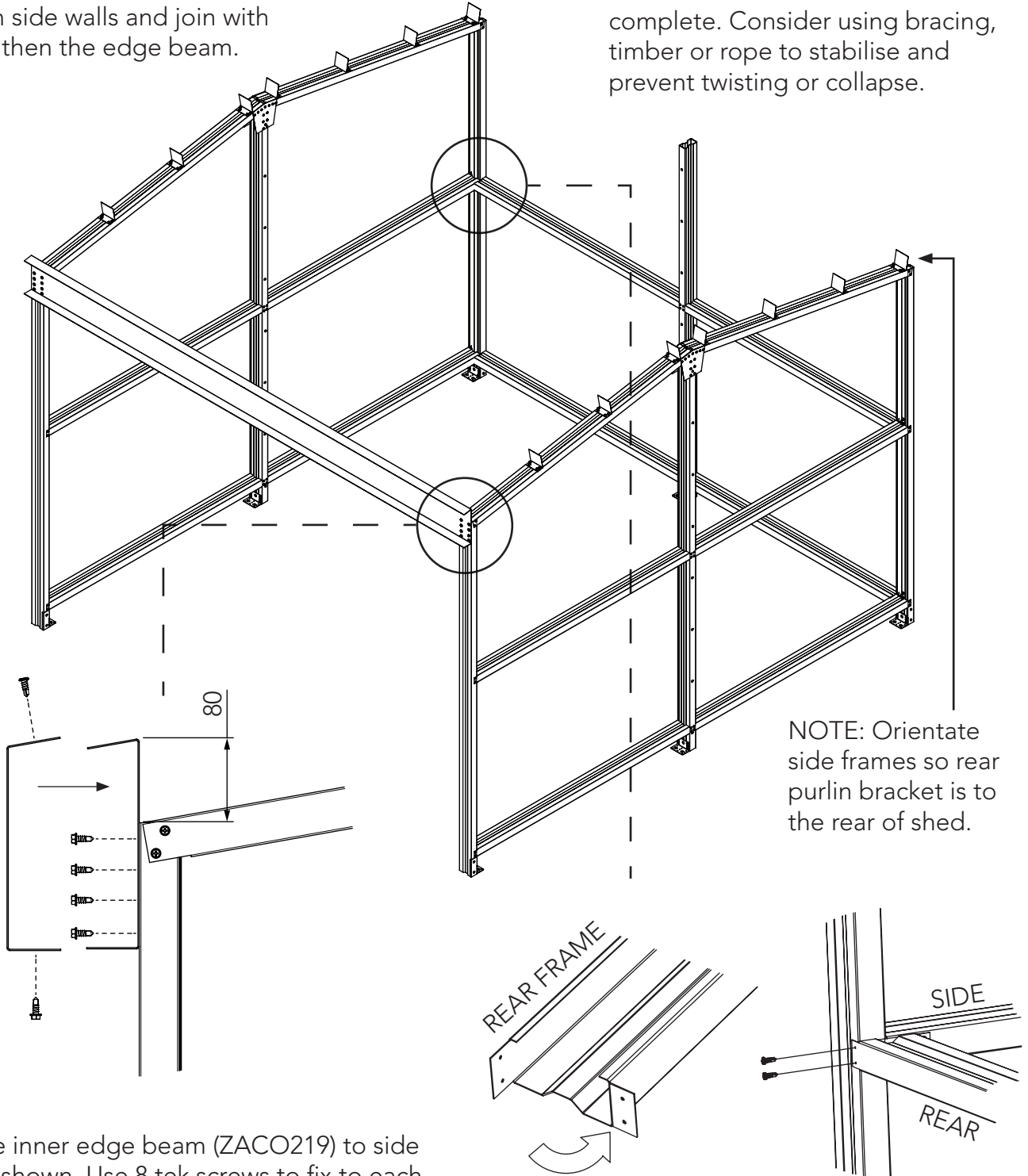
Box two (C2946) to make a purlin. Fasten with tek screws (FAST014) at 300mm spacings on both sides as shown.



Wall Frame Assembly

Stand both side walls and join with rear frame then the edge beam.

NOTE: During frame construction the structure will be unstable until complete. Consider using bracing, timber or rope to stabilise and prevent twisting or collapse.



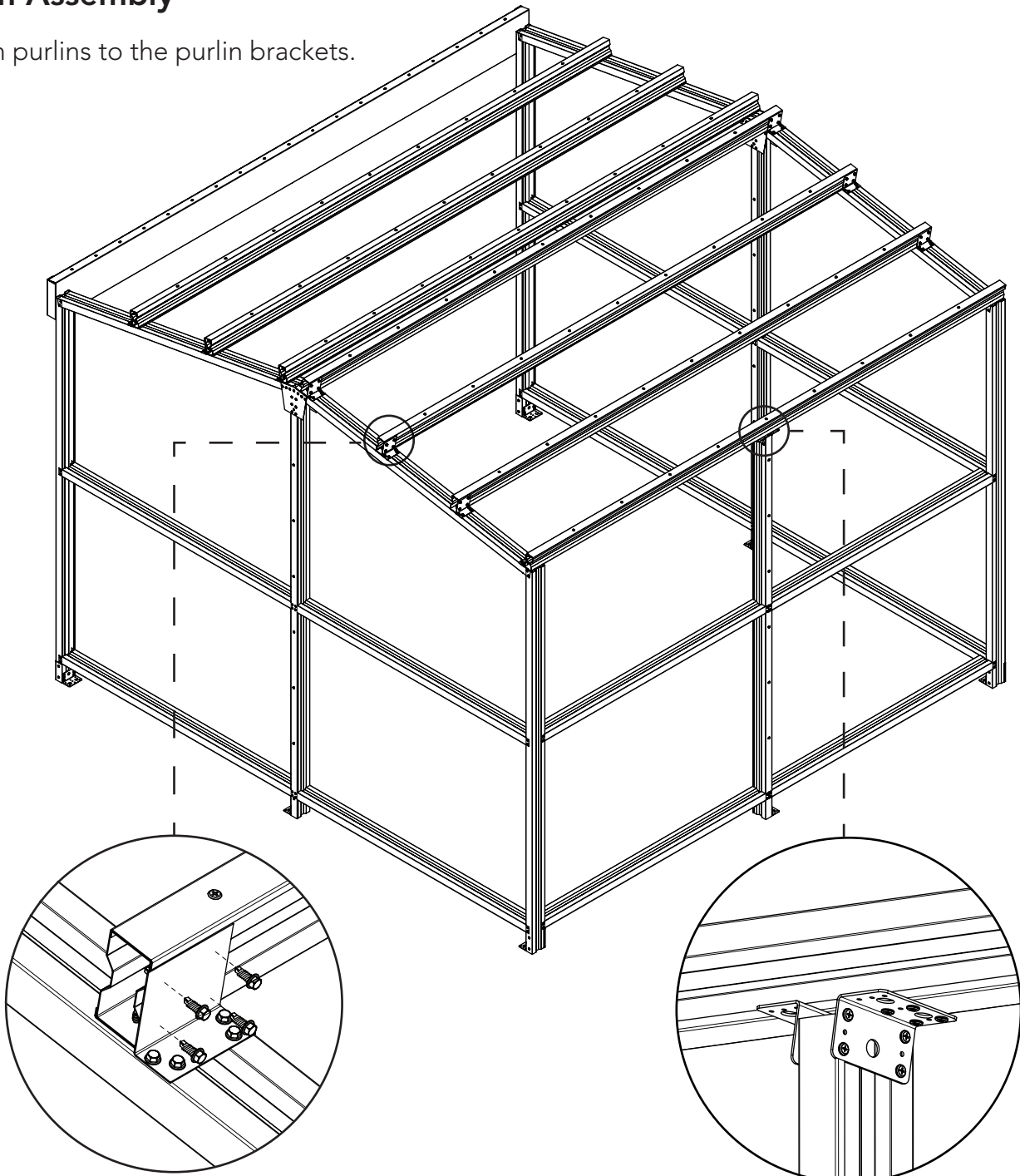
NOTE: Orientate side frames so rear purlin bracket is to the rear of shed.

Fasten the inner edge beam (ZACO219) to side frames as shown. Use 8 tek screws to fix to each side frame. Position side beam outer (ZACO218) and fasten. Make sure wafer head screws (FAST014) are used along the top face. Cap the ends of the beam with an edge beam end cap angle (ZACO155).

Fold one tab out 90 degrees for each rear frame section so it can but up against the inside of the side frame.

Purlin Assembly

Fasten purlins to the purlin brackets.



Six purlins are placed on the high side of each purlin bracket.

The rear purlin must be positioned on the outside of the reversed bracket.

Fasten the purlin to each bracket using 4 tek screws.

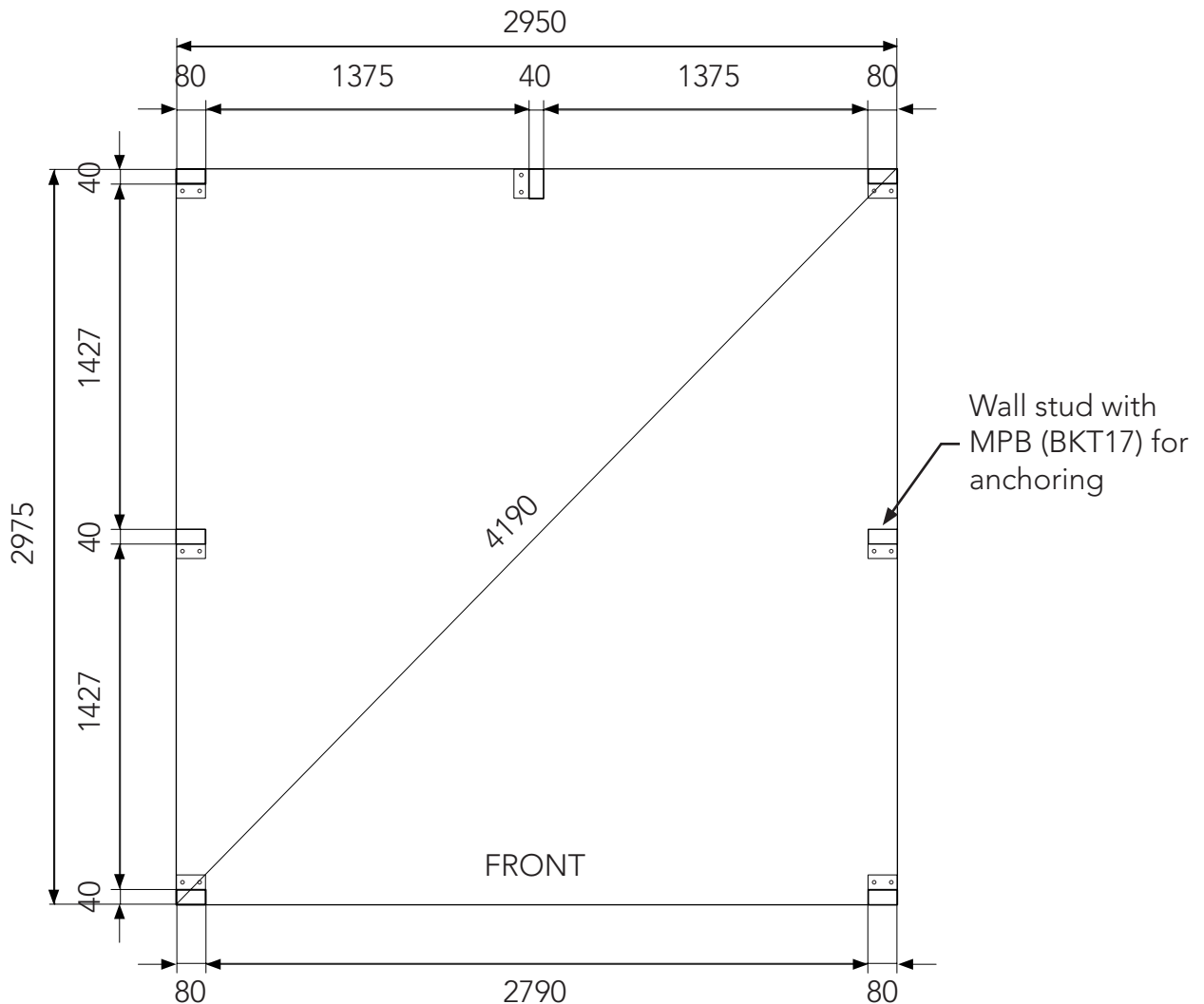
INTERNAL VIEW OF REAR STUD
Using two multipurpose brackets (BKT17) secure the rear wall stud to the rear purlin. Fasten with 8 tek screws per bracket.

Anchoring

NOTE:

- For installation next to buildings, fences or other obstacles, the side walls or rear wall may best be cladded before anchoring.
- Guttering also may be best fitted prior to anchoring.

Recommended slab dimensions - 2950mm Wide x 2975mm Deep
For footing sizes in lieu of a slab refer to engineering drawings.



Move the entire assembly to the location where the structure will be anchored. Mark off the stud locations shown and then move the frame into position to check alignment.

Adjust markings for small misalignments if less than 10mm out. If larger than this, check the frame for misalignment.

Once aligned mark off the position of the INNERMOST anchor hole in the BKT17 brackets, shift the frame and drill out anchoring holes with a

10mm masonry bit to a depth of at least 55mm. Insert the dynabolts into the holes with the nuts attached and threaded to be flush with the top of the bolt.

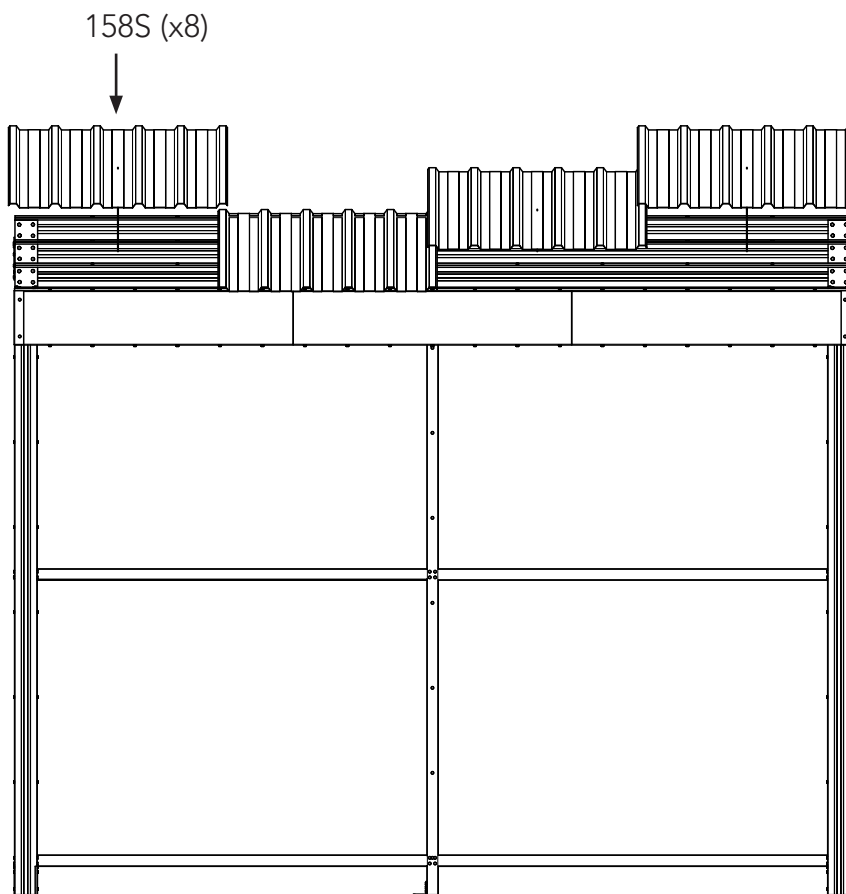
Use a mallet to drive the anchors down far enough for the nuts to be able to tighten onto the foundation. Remove the nuts and shift the frame over the bolts and replace and tighten down.

Roof Sheet Cladding

Mark a centre line along the purlins, place the first sheet (158S) on the roof frame and align the centre of the edge rib of the sheet.

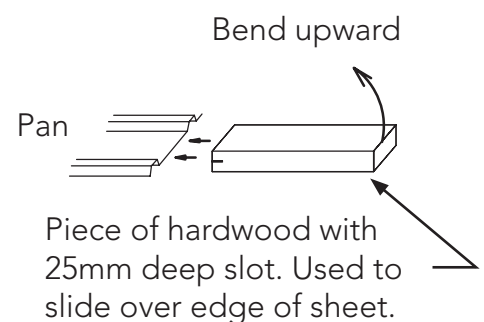
Once aligned, fit Tek screws (FAST035) fitted with neoprene washers (FAST043) through the middle of the adjacent pan and into the frame section beneath it.

Check and adjust the alignment of the opposite side of the sheet, and then fit the remaining fasteners.

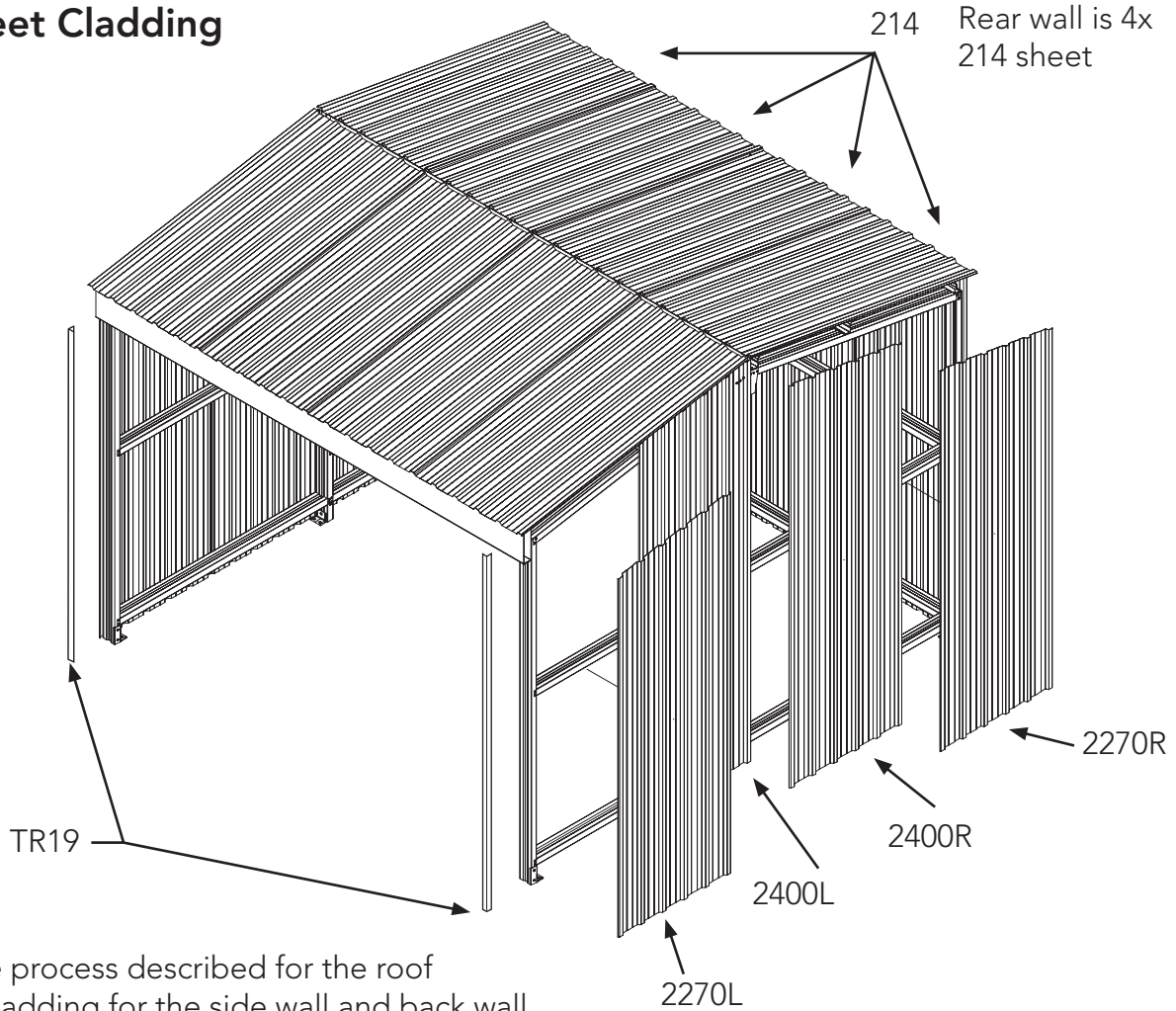


NOTE: Avoid walking on the roof so sheeting is not damaged. If it is necessary, walk only on the pans at purlin locations after sheets have been secured.

TIP: Lay the roof sheets on the ground in the same configuration as they will lay on the roof. Turn up the pans at the ridge as shown. This will prevent rainwater entry during windy conditions



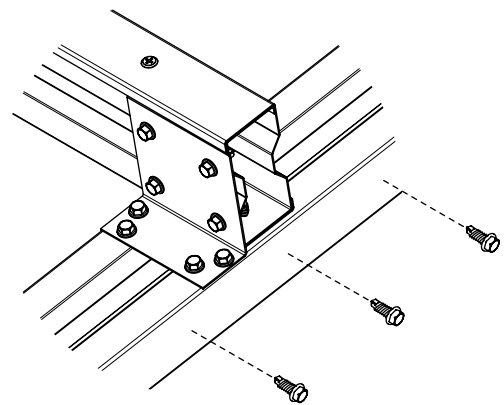
Wall Sheet Cladding



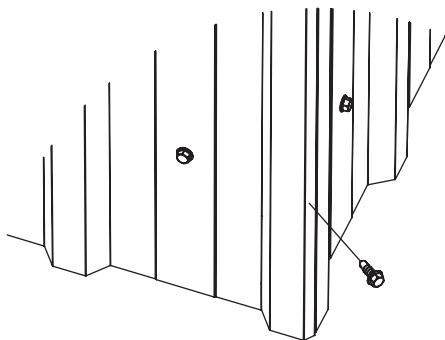
Repeat the process described for the roof sheeting cladding for the side wall and back wall. Be sure to fasten where the sheets overlap.

Use screws every second pan, fastening sheets top and bottom girts and the edge roof purlin. Fasten sheets to all frame uprights at 300mm spacings.

Once all sheets have been fitted to their respective frames fit tek screws to the corners where the side wall sheets meet the rear wall sheets.



Fasten wall sheeting to side frame with three tek screws where each purlin is located. Wall sheeting not shown for illustrative purposes.



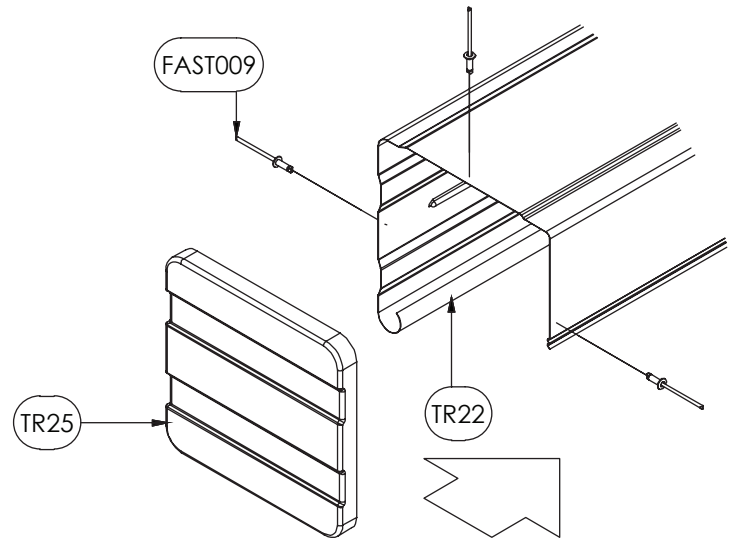
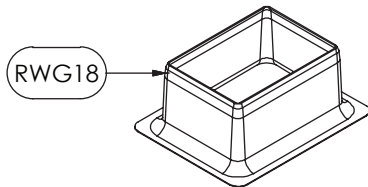
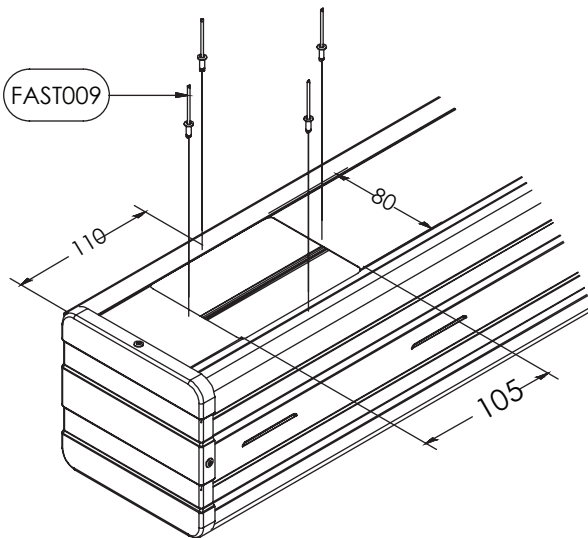
Finally apply trim (TR19). This covers the front edge of the side sheets and the front frame studs. Fasten with tek screws through the front and side.

Gutter Installation

Place the TR25 gutter end caps on each end of the TR22 gutter.

Drill 1x 3mm hole through the front, back and underside of where the TR25 overlaps the TR22, and fit 1x FAST009 Pop Rivet into each hole.

Silicone can be used to create a water tight seal at these connections.

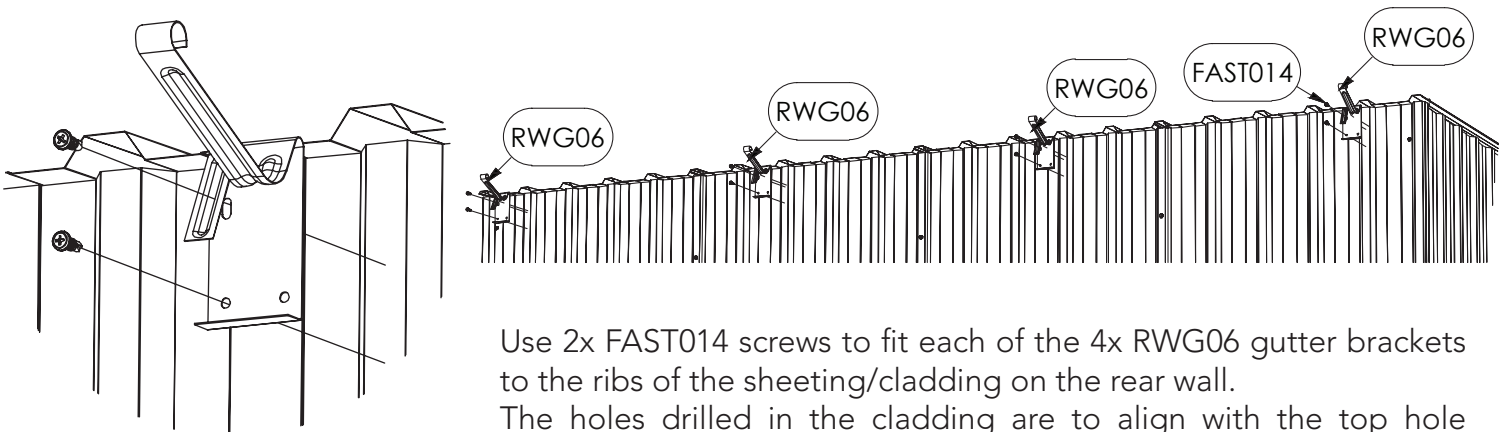


Identify your preferred end for drainage for the TR22 gutter & cut a 105mm x 80mm hole into the underside of the TR22 gutter.

This hole is best centred 110mm from the drainage end of the TR22 gutter.

Mark a line across the rear wall, starting 65mm down from the top of the sheeting at the drainage end and finishing 60mm down from the top of the sheeting at the other end.

Drill a 3mm hole where the line above intersects with the centre of 4x ribs on the rear wall sheeting. These 4x ribs are recommended to be the 2nd rib in from either end as well as 2x ribs spaced evenly (888mm centres) in between.



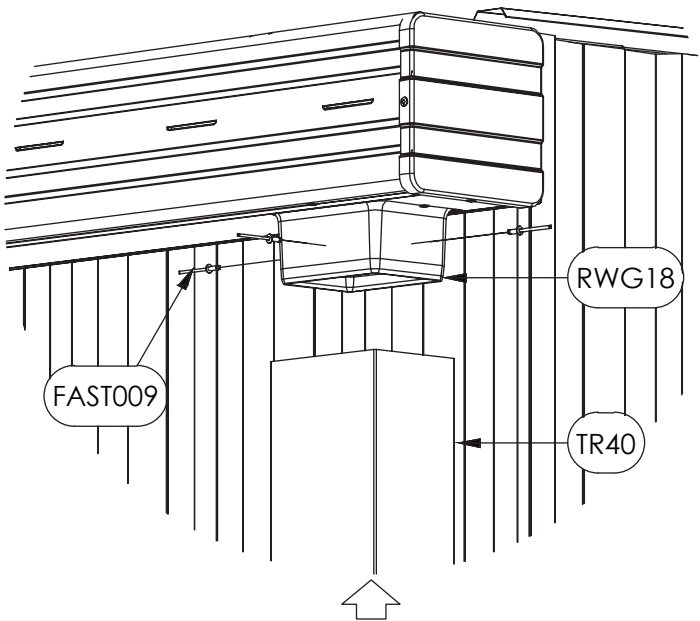
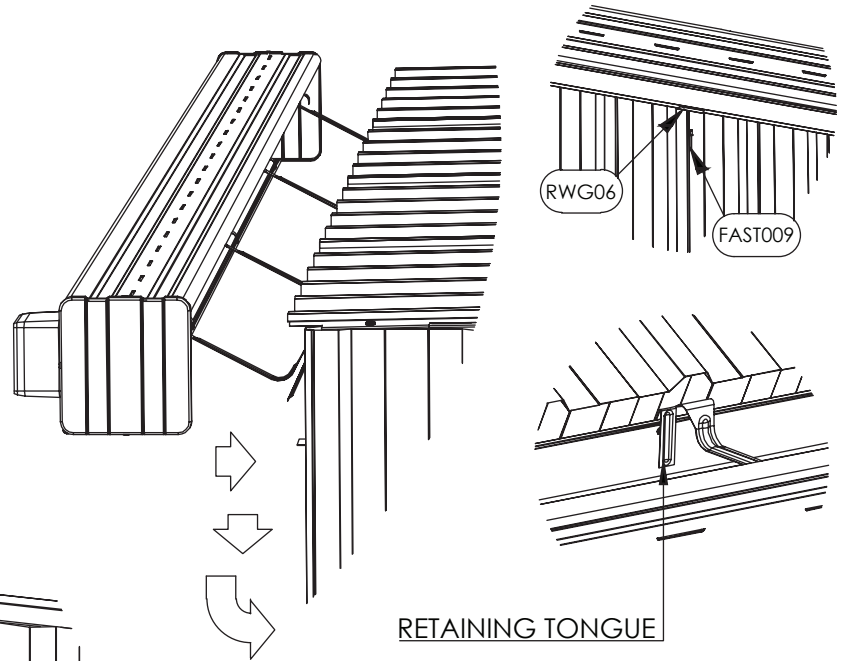
Use 2x FAST014 screws to fit each of the 4x RWG06 gutter brackets to the ribs of the sheeting/cladding on the rear wall.

The holes drilled in the cladding are to align with the top hole illustrated on the RWG06 bracket

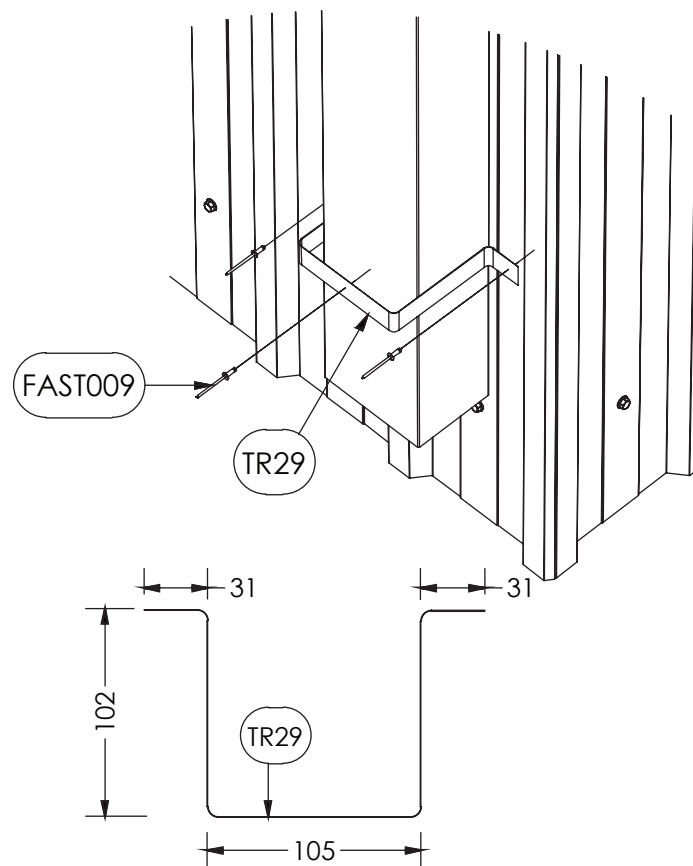
Gutter Installation

Mount the TR22 gutter onto the RWG06 gutter brackets ensuring that all loops on the RWG06 gutter brackets interlock into the loop of the gutter profile.

Lift the bottom of the gutter onto the lip of a RWG06 at one end, drill a 3mm hole through each RWG06 into the bottom of the gutter, fit a FAST009 pop rivet, and fold down the retaining tongue on the RWG06. Repeat this whilst working from one end of the gutter to the other end.

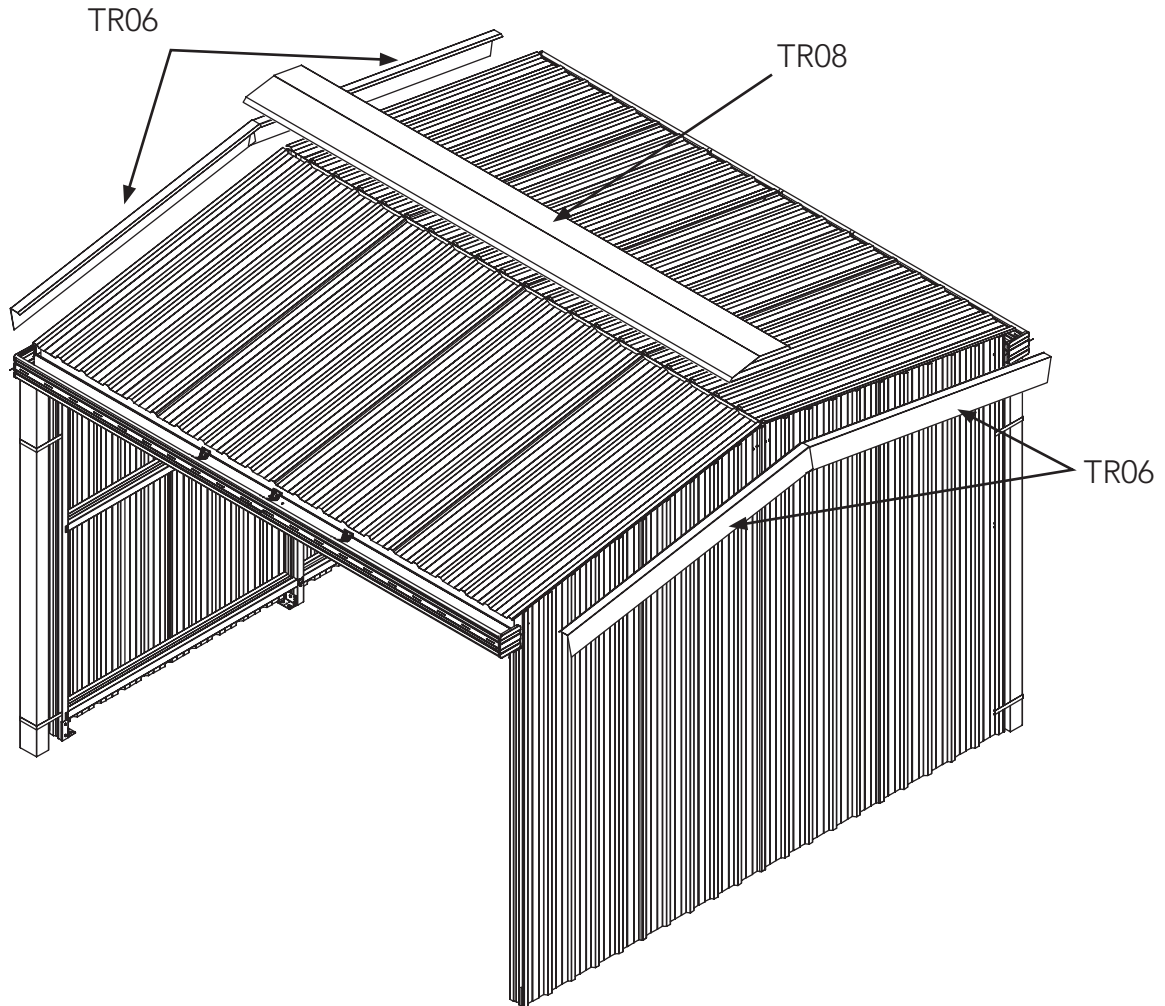


Insert the top of the TR40 downpipe over the RWG18 downpipe drop, and secure onto the RWG18 by drilling 1x 3mm hole in 3x sides of the TR10 and fitting 3x FAST009 pop rivets.



Cut the TR29 downpipe strap to 360mm long. Fold the TR29 downpipe strap into the profile illustrated. To secure the bottom of the TR40 downpipe, place the folded TR29 around the TR40. Fasten TR29 to TR40 by drilling a 3mm hole and fitting a FAST009 pop rivet. Fasten TR29 to rear wall sheeting by drilling a 3mm hole and fitting a FAST009 pop rivet at each end of the TR29.

Trim Installation



Fit barge capping to gable end walls, fixing through the roof at purlin locations.

Lay the ridge capping centrally on the roof, overlapping the sections to attain the required length equivalent to the roof sheeting, and fix to every second rib of the roof sheeting with screws and neo washers.

NOTE: 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.

Clean Up & Troubleshooting

- Photograph the completed assembly for future reference
- Reduce the risk of corrosion by hosing or blowing the completed structure to remove metal shavings, particularly those from on top of painted surfaces
- Where components and/or assemblies appear to not be aligning, refer to check measurements provided with each process, as well as the measurements provided within the components parts checklist
- Measurements on some components may vary up to 3mm either side of measurements nominated on the parts checklist, however being of a light gauge steel construction, in many cases assembly can still be completed successfully.
- For all other cases please contact your retailer or the customer service details provided to arrange replacement parts*
- Some components are bundled together to minimise the shipment volume of this product, as well as reduce the movement of components inside the package. For parts that are proving difficult to separate; gently (but firmly) wedge a tool such as a flat head screw driver to create a small separation, and then work on gradually expanding that separation along the length of the parts, or where possible, hold the parts at both ends and gently twist them back and forth to gradually generate a separation.
- Trim and flashing alignments should be checked for aesthetic adjustments that may be required due to the movement or adjustment of framework for sheeting/cladding during the final steps of assembly.
- These components are made from light gauge steel and are prone to warping from roughly distributed fastening points, and over tightening. To address warping of these components, gradually remove and replace fasteners, opening up holes slightly, relieving tension of fasteners slightly, or relocating connections (use 3mm drill bit to pilot hole/s) where necessary.
- This is not a water tight structure***, and therefore localised water ingress may take place in extreme weather conditions. Water ingress is highly dependent upon the foundation type and quality, adjacent terrain and/or structures, and drainage services and/or surface runoff flow
- Sealing where the sheeting/cladding meets the foundation at the bottom of the structure is not recommended for the entire perimeter of the structure, as this promotes water retention
- If a localised area around this perimeter is prone to ingress, sealant can be applied, however it is recommended that runoff of water from inside the structure is considered prior to proceeding
- *Modifications such as trimming down parts to measurements nominated on the parts checklist is welcome, and will not void the warranty
- ***Refer to the warranty and usage guidelines for more information

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.

Australia Product Warranty Against Defects

- Absco Sheds, including garden sheds, garden beds, aviaries, storage units, garages, awnings and carports are made using high quality Australian made steel.
- We are pleased to advise we warrant that the steel coating will not rust, crack, flake peel or blister for 30 years from date of purchase, when installed within Australia.
- 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, or as a result of contact with damp soil, chemicals, fertilisers or other corrosive substances.
- This warranty covers any Absco product used for normal domestic use and installed in accordance with the installation instructions.
- The warranty does NOT cover Damage caused by storms, wind, rain snow or poor foundations.
- This warranty does NOT cover ABSCO products installed in severe coastal, industrial or other highly corrosive environments. The warranty does not cover fasteners (screws, nuts, bolts, rivets, hasps or sliding padbolts).
- The warranty is limited to replacement and delivery of components and does not include any labour or installation costs. The benefits given by the warranty are in addition to your other rights and remedies under a law in relation to the goods or services to which the warranty relates.
- The warranty applies to the exclusion of all other representations, guarantees or warranties express or implied, our goods come with guarantees that cannot be excluded under the Australian consumer law and is not transferable. You are entitled to a replacement or refund for a major failure and for compensation for any other foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of an acceptable quality and the failure does not amount to a major failure. For further information go to <http://www.consumerlaw.gov.au>
- Please retain a proof of purchase (sales docket or invoice) or register your warranty within 30 days of purchase here: www.abscosheds.com.au/warranty-details/
- In the unlikely event a warranty claim is made, it must be supported by photographic evidence and details of the defect, including component part numbers, together with proof of purchase documentation (or on-line registration of purchase) and forwarded to the address below. Upon receipt of the warranty claim, the Customer Service Manager will contact you within three business days to advise you of the assessment outcome of the claim, which may include your expenses incurred in making the claim.

THE CUSTOMER SERVICE MANAGER, ABSCO INDUSTRIES, PO BOX 119 ACACIA RIDGE QLD AUSTRALIA 4110

PHONE: 1800 029 701 **FAX:** 07 3344 1191 **EMAIL:** warranty@absco.com.au

Issued 01 January 2018

Absco Rural Shed Notes

General

- 1.G This instruction manual shall be read in conjunction with other consultants drawings, specifications and written instructions provided by Absco and/or their representatives.
- 2.G The drawings provided herein are for installation and structural engineering purposes only. If discrepancies are discovered within the documentation provided, these shall be brought to the attention of Absco and written approvals obtained prior to commencing the affected section of work.
- 3.G If in doubt ask.
- 4.G Until approvals from the local authorities are obtained, commencement of construction from these drawings shall not commence.
- 5.G Unless varied by the project specification, all materials and workmanship shall be undertaken in accordance with the relevant Australian standards and the by-laws and ordinances of the relevant building authorities.
- 6.G All dimensions indicated in these drawings shall be verified on site by the installation contractor. Scaling of drawings shall not be undertaken.
- 7.G Prior to commencing works on site, the contractor shall verify the position of all services in the area to ensure that the construction does not interfere with any of those services.
- 8.G During installation on site the shed structures shall be maintained in a stable condition with no part becoming overstressed or permanently deformed.
- 9.G In circumstances where the shed has been installed in a manner which is inconsistent with the installation manual, structural certification shall be void.
- 10.G The structural components detailed within this installation manual have been designed for the following loads in accordance with AS/NZS1170 based on a Class 10a, Type 2 structure:
- Roof Live Load: 0.25 kPa uniformly distributed or 1.1 kN concentrated as per AS/NZS1170.1

Wind Load: Classification N2, Non-Cyclonic to AS4055 where $V_u = 40$ m/s, $V_s = 26$ m/s

Windward wall $C_{p,e} = 0.7$, $C_{p,i} = -0.65$ dominant opening

Leeward Wall $C_{p,e} = -0.3$ to -0.5 as applicable based on shed geometry, $C_{p,i} = -0.65$ dominant opening

Side Wall $C_{p,e} = -0.2$ to -0.65 as applicable based on shed geometry, $C_{p,i} = 0.7$ dominant opening

Roof $C_{p,e} = 0.9$ depending on wind direction, $C_{p,i} = 0.7$ dominant opening

Absco Rural Shed Notes

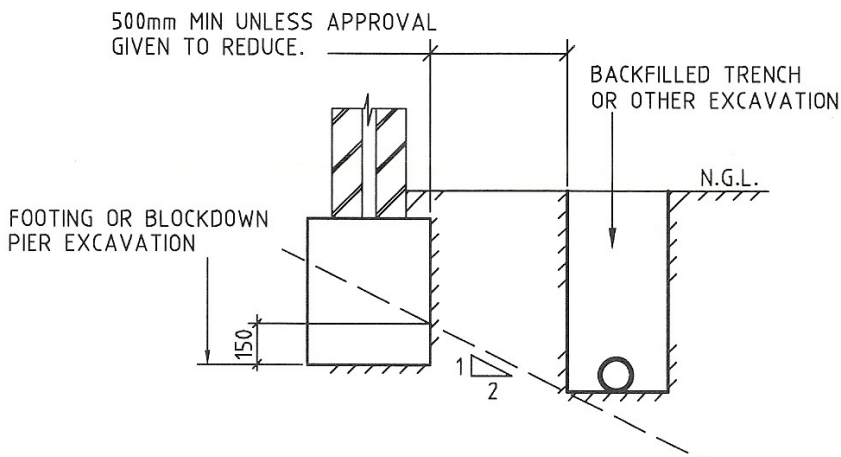
Steelwork

- 1.S All structural steelwork shall have a corrosion protection system applied consistent with AS/NZS 2312-2014.
- 2.S All structural steelwork detailed within this installation manual shall be minimum Grade 550 for roll formed sections (including roof and wall sheeting and portal frame members) and Grade 250 for angle sections.
- 3.S All multi purpose and anchor brackets for connection onto the supporting reinforced concrete slab (includes 45x45x3EA x 34mm long and 47x47x1.9EA x 80 long) shall be minimum Grade 450.
- 4.S All frame knee and apex plates shall be minimum Grade 450
- 5.S All roof, and wall sheeting shall be minimum base metal thickness of 0.3mm Grade 550
- 6.S All frame members shall be minimum base metal thickness of 0.75mm.
- 9.S All frame knee and apex plates shall be minimum base metal thickness 1.0mm
- 10.S All screw fasteners shall be Buildex #10-16
- 11.S All bolt fasteners for anchoring shall be M10 minimum grade 4.6/S
- 12.S Installation of screw fasteners shall generally be undertaken in accordance with the relevant provisions of AS1562.

Absco Rural Shed Notes

Supporting Slab and Foundations

- 1.F The supporting slab foundation for the garden shed shall be of a minimum size indicated on the installation manual. The top surface of the formed slab shall be level and free of any irregularities which would inhibit the installation of the shed.
- 2.F The structural engineering design for the supporting slab foundation shall be undertaken by a suitably qualified structural engineer. The design shall consider all relevant provisions of AS3600 and AS2870.
- 3.F Between adjacent footings or excavations, the contractor installing the slab foundation shall not exceed a rise of 1 in a run of 2 in line of slope.
- 4.F Unless approved in writing by the slab foundation engineer, the limits of excavations near existing footings shall be in accordance with that indicated below.



The contractor shall undertake investigatory localised excavations near existing footings to ascertain their depth prior to excavating adjacent to them. It is noted that excavating to a depth below that indicated above shall not be undertaken without the written approval from the engineer.