

Length: 6.0m
Depth 3.0m
Height: Variable to 3.0m
Wind Rating: W50C (C2)
Slab Size: 6120 x 2910mm

Building approval:

Local authority approval must be obtained prior to construction. Once you have selected your site, draw a site plan and lodge your application together with a copy of the engineering plans located at the back of these instructions.

Assembly:

The frame is constructed from 80mm x 40mm galvanised steel channel, similar to that used in domestic steel house framing. All sections are cut to exact lengths, with channel ends pre-punched where necessary to simplify assembly. If classic cream color channel is supplied, remove the protective plastic coating after assembly. Channel sections are secured together using 10G x 16mm self drilling tek screws. (Supplied). Roof sheets are secured to the frame using 10G x 16mm self drilling tek screws with neoprene washers (supplied). Barge capping is secured together using 3mm pop rivets (supplied).

Construction:

The patio frame can be easily connected to brick or blockwork, using M10 x 75 dynabolts or coach screws, (not supplied) through the rear beam of the frame. If fixing the frame to existing steel/timber fascia, the fascia to house connection points may require additional strengthening to support the patio frame. Refer to the attached engineered drawings 06205-003-AW02 & 06205-003-AW05 for further details.











If you are attaching the patio frame to materials or structures other than those noted above, you should seek independent engineering advice on how to do so.

Concrete slab or footings

The frame must be secured to a concrete slab or footings, details of which are noted on the attached engineered drawings. Brackets and dynabolts for securing the frame to either a concrete slab or footings are included in this kit.

COMPONENT PACKING LIST

Check off all components.

FRAME PACK							
QTY	COMPONENT DESCRIPTION	PART No.	CHK	QTY	COMPONENT DESCRIPTION	PART No.	CHK
6	 FRAME SECTION L = 2960mm	C2960		2	 FRAME SECTION L = 100mm	C0100	
1	 FRAME SECTION L = 200mm	C0200		2	 FRAME SECTION L = 2834mm	M2834	
8	 FRAME SECTION L = 1470mm	K1470		4	 FRAME SECTION L = 650mm	P0650	
3	 FRAME SECTION L = 2850mm	C2850		3	 FRAME SECTION L = 2870mm	J2870	
3	 FRAME SECTION L = 2770mm	C2770		3	 FRAME SECTION L = 2810mm	K2810	

FRAME SECTION IDENTIFICATION GUIDE

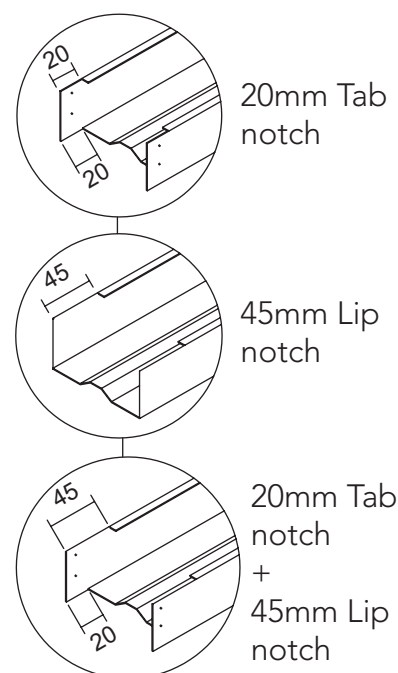
The first letter of the part number is used to identify the notching type. EG. K2940, see below for reference list.

The following digits represent the overall length of the item.

EG. K2940

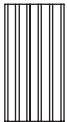




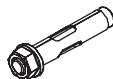









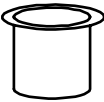


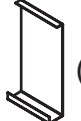
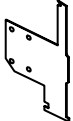
Part K2940 is a channel that is 2940mm long with a 20mm Tab notch at each end.

- C Straight cut to both ends.
- J 20mm Tab notch on one end only
- K 20mm Tab notch on both ends
- L 45mm Lip notch on one end only
- M 45mm Lip notch on both ends
- N 20mm Tab notch + 45mm Lip notch
- P 20mm Tab notch + 45mm Lip notch on both ends
- R One end: 20mm Tab notch + 45mm Lip notch
- S SPECIAL NOTCHING, not noted above.



COMPONENT PACKING LIST

Check off all components.

SHEET AND ACCESSORIES							
QTY	COMPONENT DESCRIPTION	PART No.	CHK	QTY	COMPONENT DESCRIPTION	PART No.	CHK
8	 STEEL SHEET 2930 x 773mm	293		1	 10G x 16mm WAFER HD TEK SCREWS PACK QTY 300	FAST014 PACK17	
1	 NEOPRENE WASHER PACK QTY 135	FAST043 PACK23		1	 PHILLIPS HEAD DRIVER BIT	FAST038	
1	 3mm POP RIVET PACK QTY 100	FAST009 PACK13		4	 M10 DYNABOLTS	FAST015	
4	 MULTIPURPOSE BRACKET (MPB)	BKT17		2	 40x40 FASCIA CONNECTION ANGLES	ZACO128	
GUTTER AND TRIM							
QTY	COMPONENT DESCRIPTION	PART No.	CHK	QTY	COMPONENT DESCRIPTION	PART No.	CHK
2	 BARGE CAPPING L=2930mm	TR07		2	 FASCIA BOARD L=2970mm	TR03	
2	 GUTTER L=3030mm	TR22		2	 GUTTER STOP END	TR25	
1	 DOWNPIPE 50MM DIA. L = 2900mm	RWG15		1	 DOWN PIPE STRAP L= 450mm	TR29	
8	 GUTTER BRACKET	RWG06		1	 DOWNPIPE DROP	RWG17	
2	 FASCIA CONNECTION ANGLE	TR09		1	 PVC DOWNPIPE 45 DEGREE END	RWG01	
1	 FASCIA SPLICE (JOINER) PLATE	TR24		6	 FASCIA CONNECTION BRACKET	RWG05	

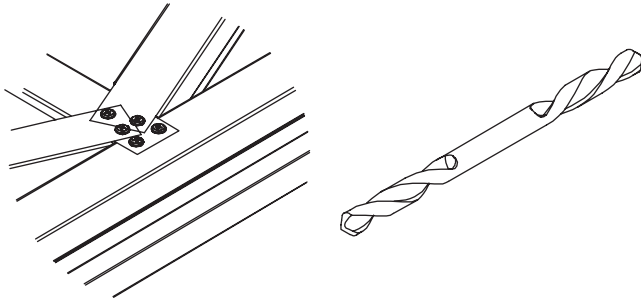
*Note: some lengths may be supplied slightly longer. Simply cut back to required length or notch and overlap ends where possible.

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.

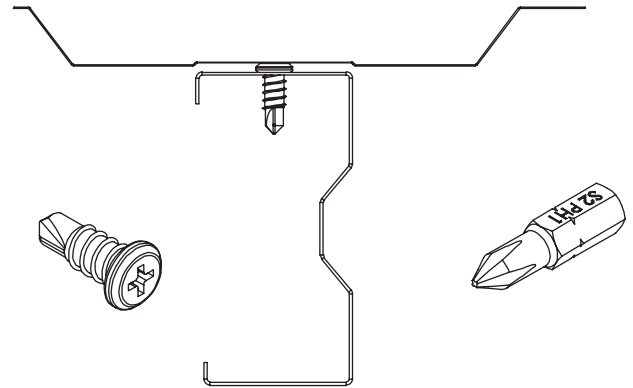


Absco sheds' frame sections are manufactured from light gauge steel, enabling for the notched ends or lengths of one frame section to be spread over the sides of another frame section, boxed frame section or H-section.

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

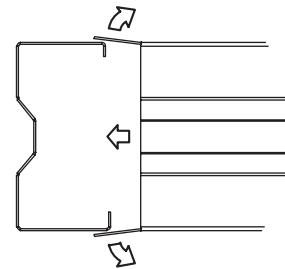
For these reasons, focus on arranging all parts of a frame assembly or subassembly together (to the overall sizes and check measurements nominated) using minimal screws. This allows for easier adjustment to various connections which may be necessary to achieve the overall dimensions and check measurements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

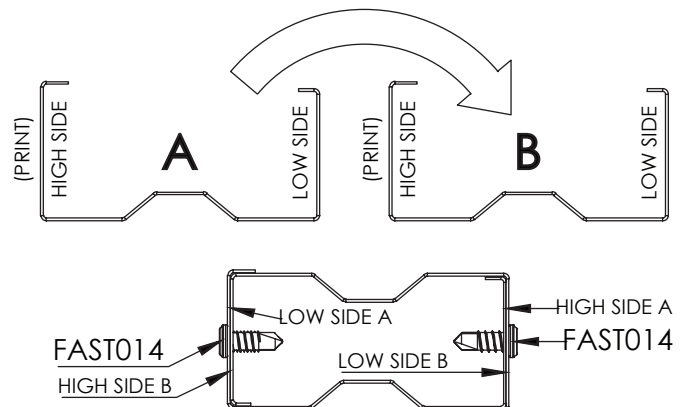
A 3mm drill bit is supplied for pre-drilling holes where self drilling screws may be more difficult to establish holes with (EG. Fitment of purlin brackets).



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.



Before you commence:

Read these instructions carefully and fully so that an understanding of the steps involved in construction is obtained. Do this with constant reference to the engineering drawings provided.

Measure and check off all the components prior to commencement. If a discrepancy is discovered, contact Absco immediately for assistance.

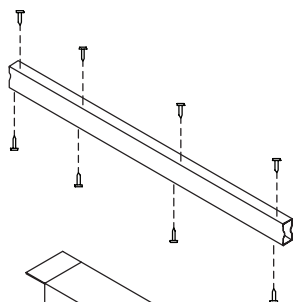
Caution:

Some items may have sharp edges and it is advisable to wear protective gloves when handling them. Care must also be taken to avoid eye injury when drilling holes. Please wear safety glasses.

Tools required:

Tools required include electric or cordless drill, 10mm masonry drill bit, small shifting spanner, tape measure, string line, ladder, steel clamps.

STEP 1. Prepare boxed channel sections



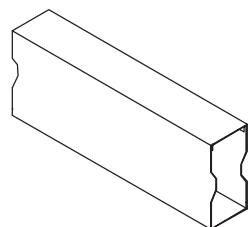
Use 16mm self drilling tek screws to form boxed sections.
A screwdriver bit is supplied. When installing screws, apply moderate pressure at a medium drill speed and avoid over-tightening.

Join these

1 x C2770 TO 1 X K2810
1 x C2770 TO 1 X K2810
1 x C2770 TO 1 X K2810

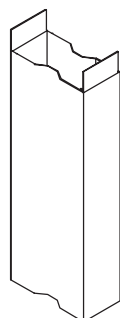
to make these

= 3 x BOXED CENTRE
RAFTERS.



1 x C2960 TO 1 X C2960
1 x C2960 TO 1 X C2960

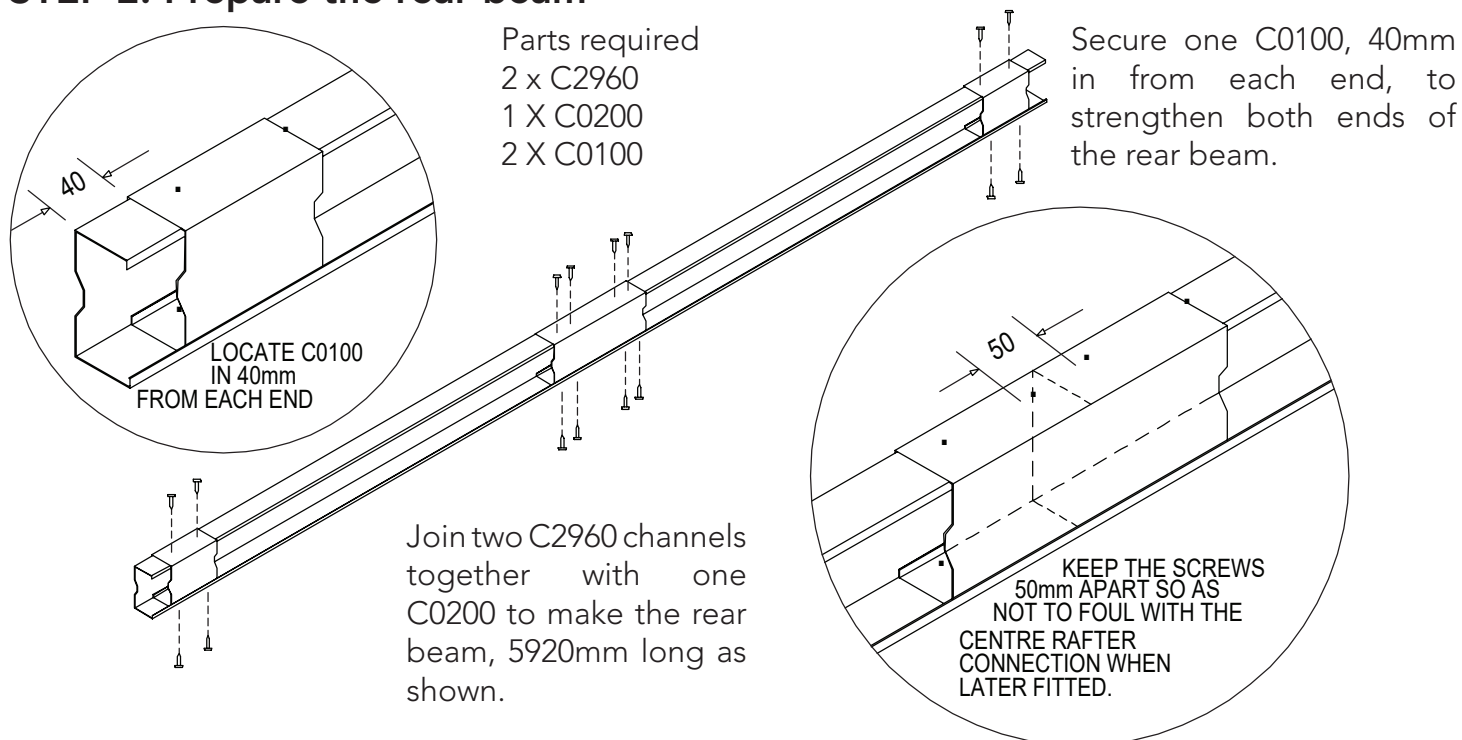
= 2 x BOXED FRONT
BEAMS



1 x C2850 TO 1 X J2870
1 x C2850 TO 1 X J2870
1 x C2850 TO 1 X J2870

= 3 x BOXED POSTS

STEP 2. Prepare the rear beam

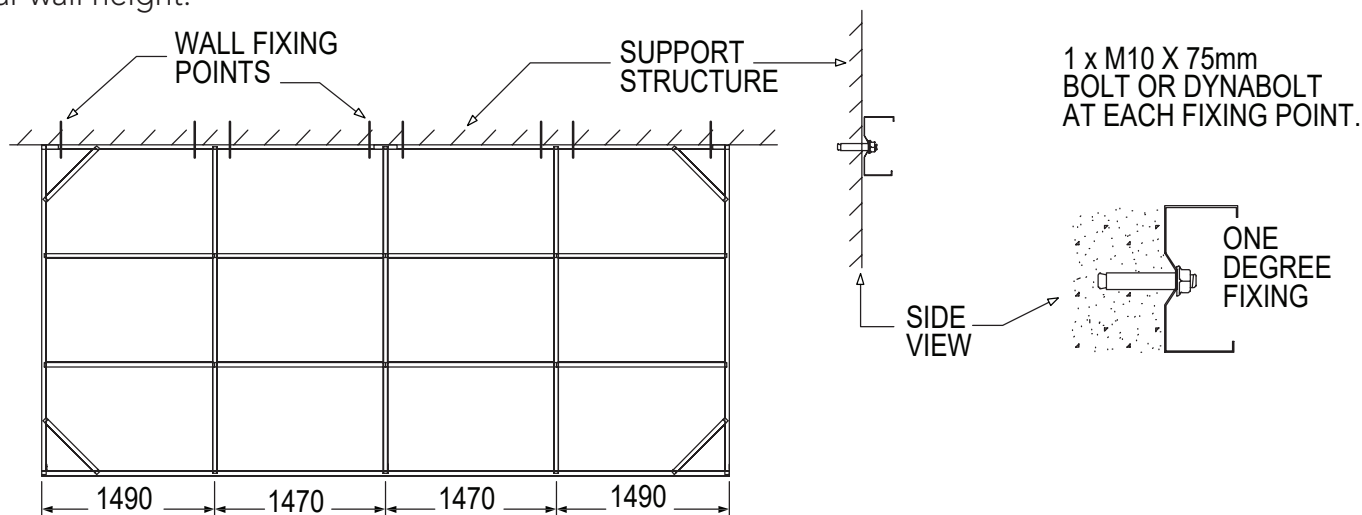


The roof frame is to be fully assembled on the ground, then lifted into place. Therefore, all wall and slab fixing points should be pre-drilled in readiness for this procedure. Mark the ends of the rear beam left & right, to ensure it is positioned correctly when assembling the frame.

The recommended minimum roof slope is one degree. This represents a fall from the rear to the front of the awning of 50mm.

Drill 12mm holes in the rear beam as shown below. The holes should be about 150mm either side of each rafter. Position the rear beam to the desired wall height. Mark wall hole locations and drill 10mm holes to suit bolts/dynabolts.

When selecting the wall height, remember that the front of the awning will be 50mm lower than the rear wall height.



STEP 3. Prepare the posts

BEND DOWN ONE TAB
FOR EACH POST WITH
A PAIR OF PLIERS.

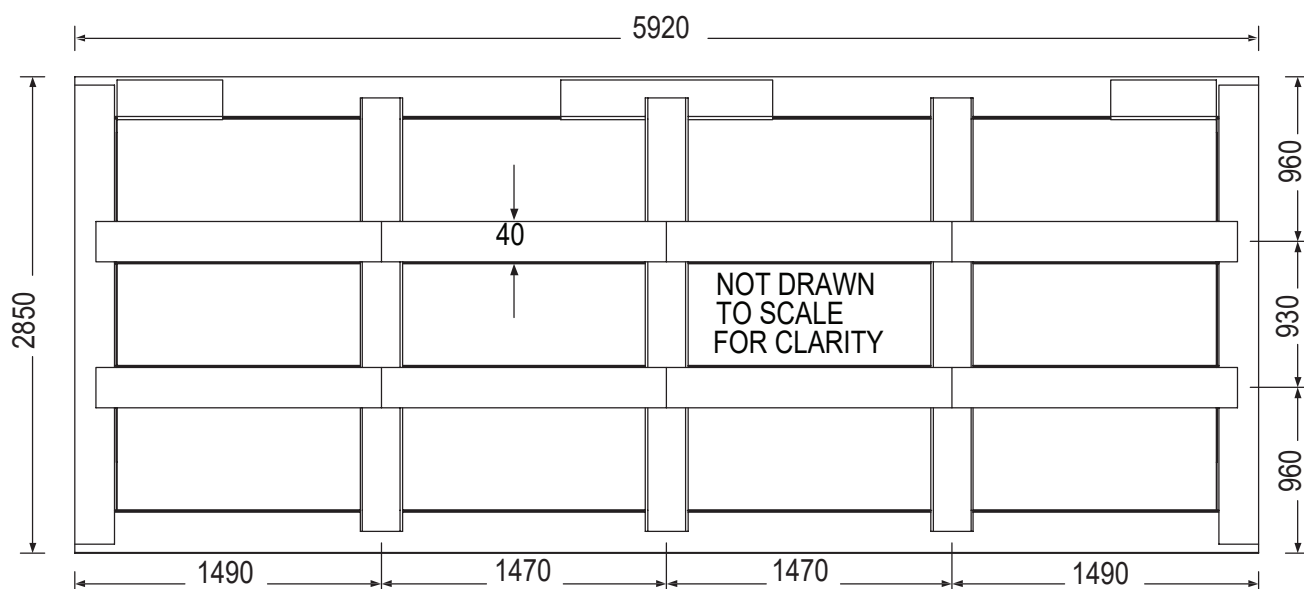
THE POST HEIGHT SHOULD BE THE SAME AS
THE REAR WALL FRAME HEIGHT, LESS THE AMOUNT
OF SLOPE SELECTED. THE REAR WALL HEIGHT MEASUREMENT
SHOULD BE TAKEN FROM THE CONCRETE SLAB TO THE
UNDERSIDE OF THE FRAME.

HEIGHT =
50mm OR 150mm
LESS THAN REAR
WALL HEIGHT

FIT TWO MULTI PURPOSE BRACKETS TO THE BOTTOM OF
EACH POST, WITH FOUR TEK SCREWS PER BRACKET.

STEP 4. Frame layout and dimensions

USING A STRINGLINE AND CHALK,
MARK THE FRAME LAYOUT ON THE
CONCRETE SLAB TO THE DIMENSIONS SHOWN
BELOW. THE CORNER TO CORNER DIAGONAL
MEASUREMENT SHOULD BE 6570mm
MOVE THE POSTS INTO THEIR POSITIONS ON
THE LAYOUT, MARK AND DRILL TWO 10mm
DYNABOLT HOLES PER POST IN THE CONCRETE.



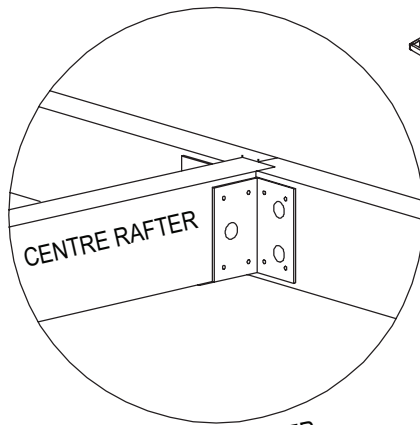
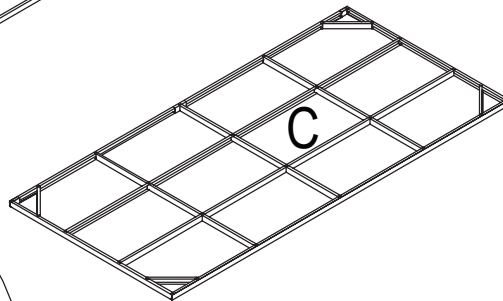
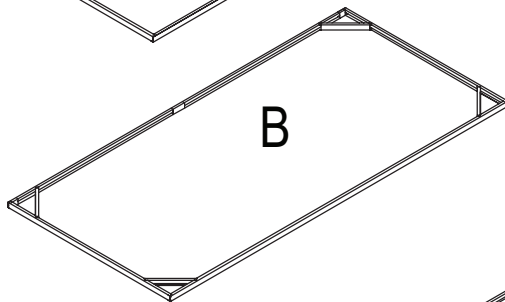
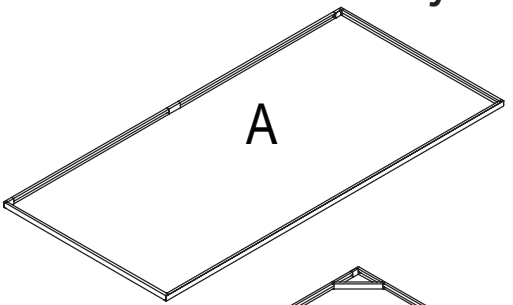
STEP 5. Frame Assembly

Every connection should be fixed with two tek screws. Once completed, carefully turn the frame over and fasten with tek screws.

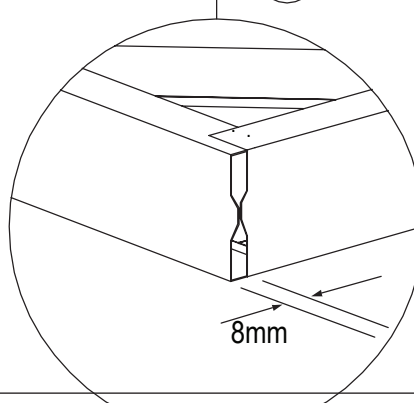
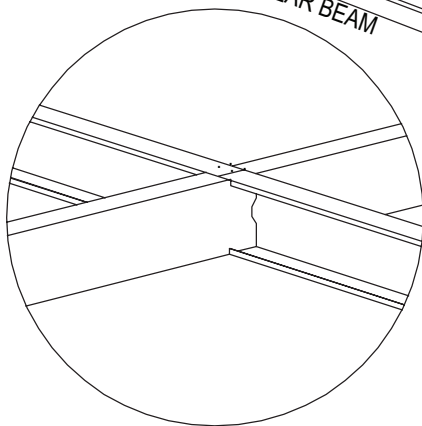
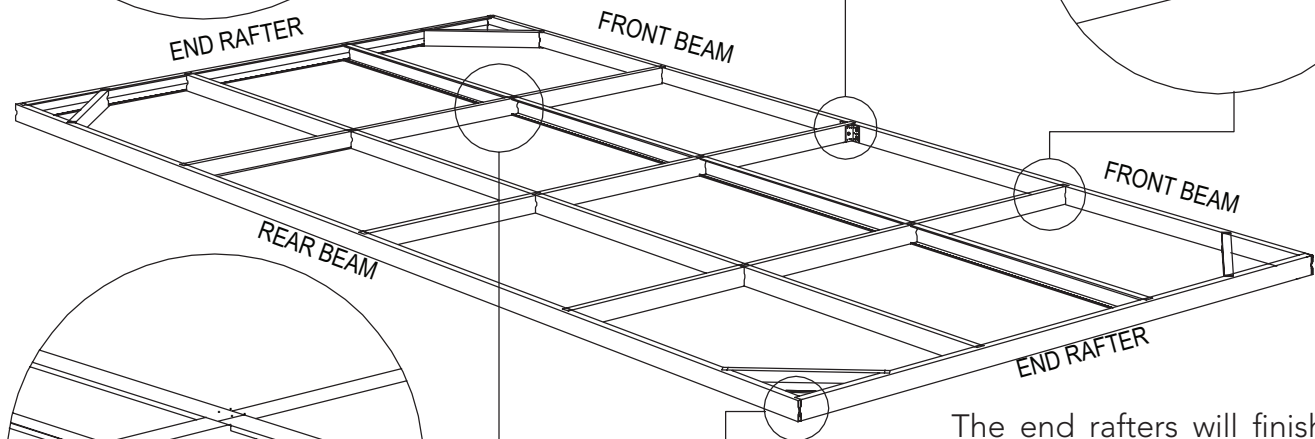
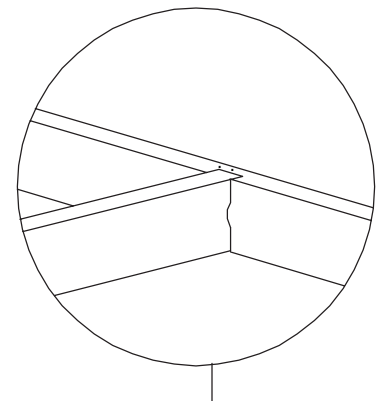
A. Secure the outside sections of the frame first with one tek screw in each corner. Ensure that both diagonal measurements are the same, then fasten each corner with another tek screw.

B. Position each corner brace, fasten with two tek screws at each end.

C. Move the remaining channel sections into position. Do not fasten any together until you are satisfied they are all in their proper position.



**FASTEN THIS CENTRE RAFTER
TO THE FRONT BEAM WITH
TWO MULTI PURPOSE
BRACKETS. SECURE EACH
BRACKET WITH EIGHT TEK
SCREWS.**



The end rafters will finish 8mm short at each end to ensure a tight fit over the front and rear beams, and ensure that the width of the frame will finish at 2850mm.

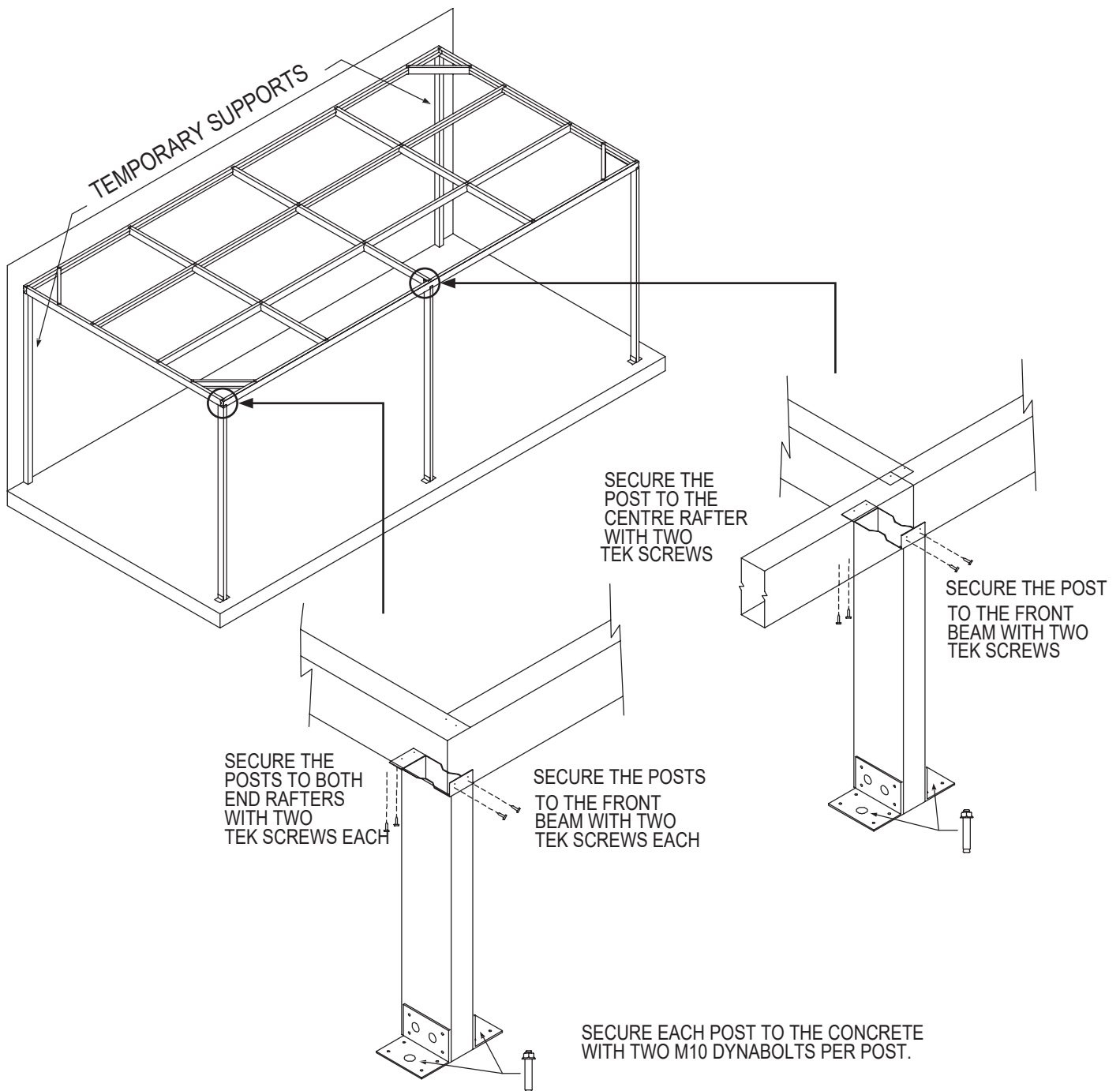
The ends of these rafters are not pre-punched.

STEP 6. Frame Installation

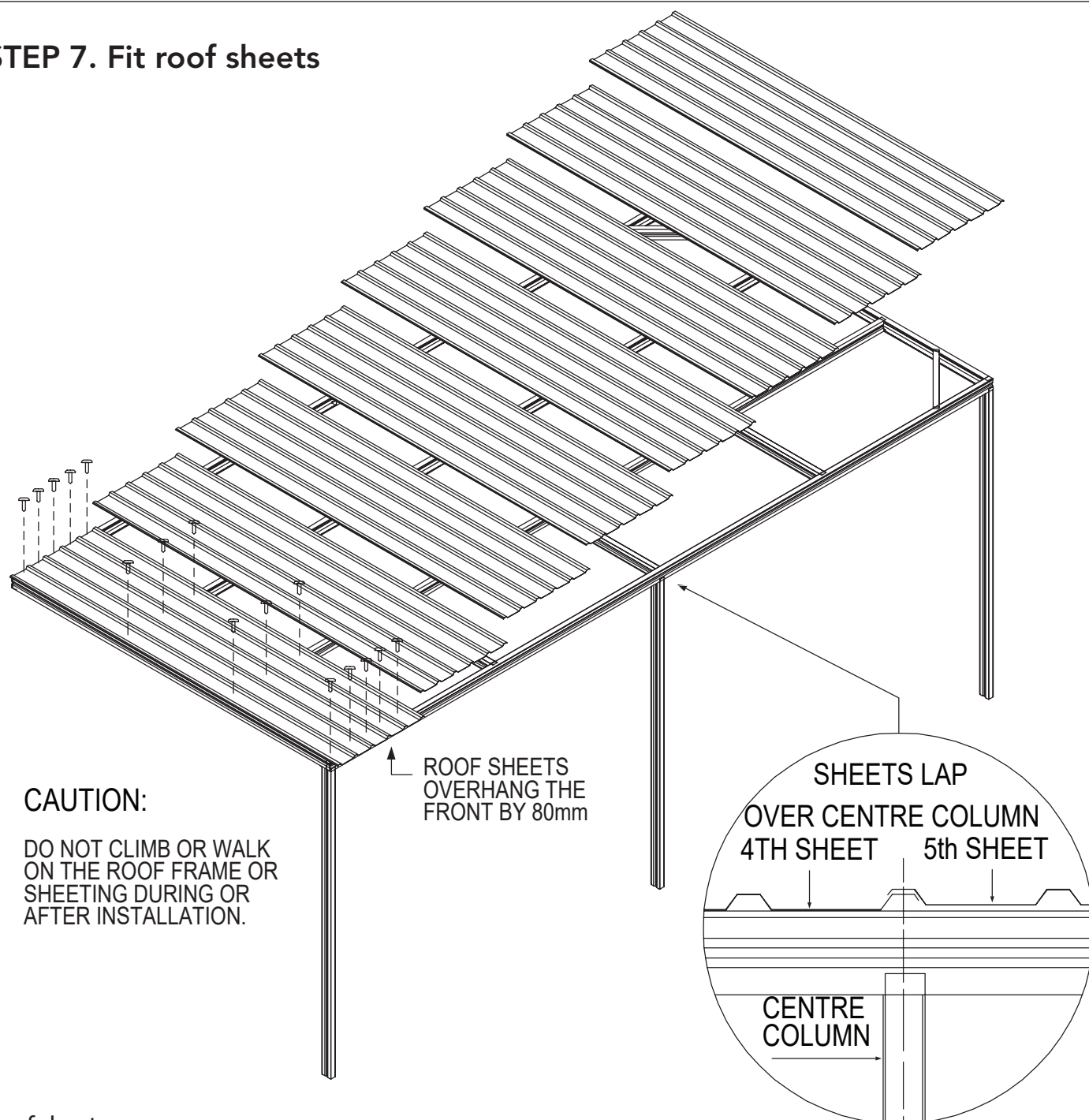
Move the posts to their correct positions and secure to the concrete with two dynabolts per post.

In preparation to move the roof frame into position, you may need the assistance of one or more persons. Alternatively, if you have any materials (timber, steel) that can be used as temporary rear supports to rest the frame on as shown below, it will make this procedure much easier.

Lift the frame into position, and clamp the frame to each post while the frame is secured to the previously drilled rear wall. Secure the frame to the posts as shown below.



STEP 7. Fit roof sheets



Roof sheet coverage:

8 Sheets = 5950mm overall coverage, 30mm longer than the roof frame. Rather than trimming this extra 30mm of sheeting, each sheet can be "squeezed" in width by 4mm to "soak up" the excess coverage. You can check your progress after fixing four sheets. The centre of the last rib of the fourth sheet should meet with the centre line of the roof frame.

Installation procedure:

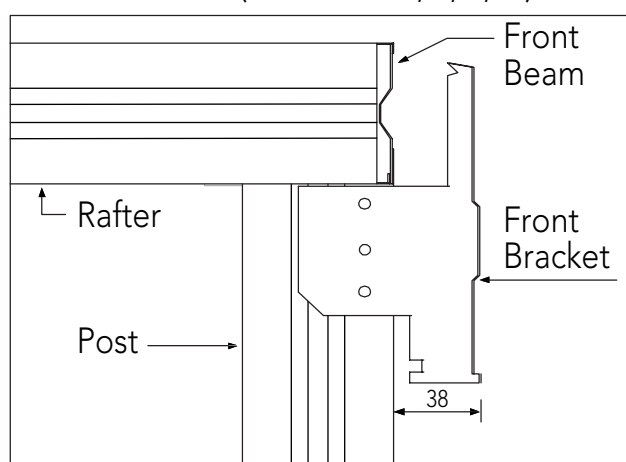
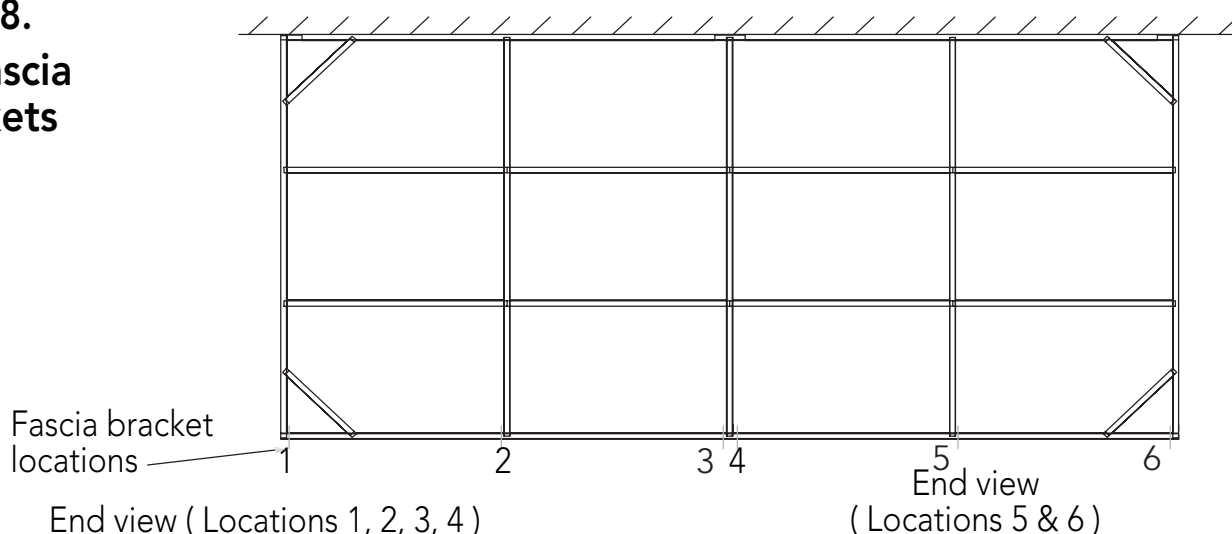
Roof sheets are fitted by working from a ladder underneath the awning, starting at one end, fixing one sheet at a time, working towards the other end.

Use one screw with neo washer at every pan to front and rear channels

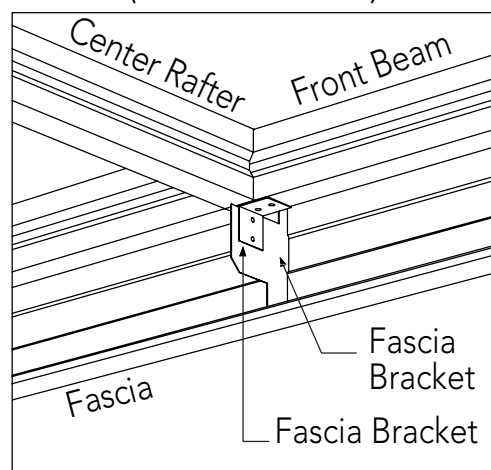
Use one screw with neo washer at every second pan to intermediate channels

STEP 8.

Fit Fascia Brackets



Fit one fascia bracket at locations 1, 2, 3 and 4 with three screws each as shown. Use a stringline for accuracy.

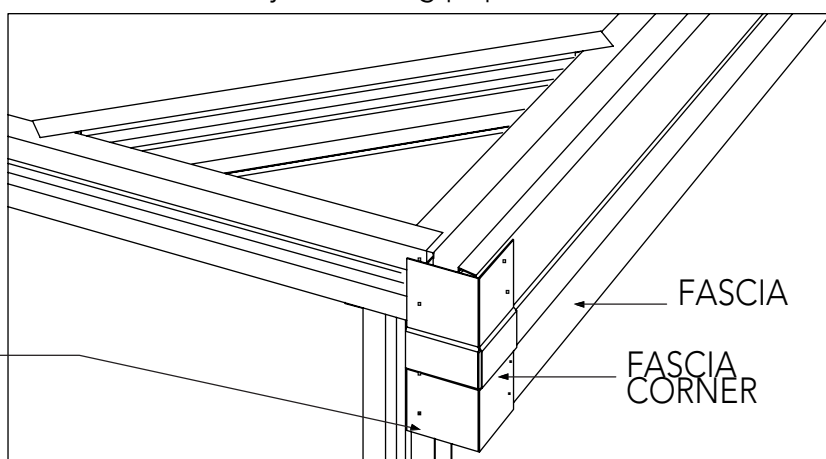
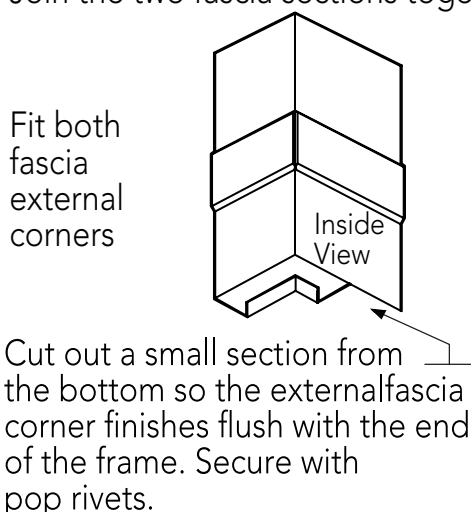


For accuracy, complete this step after the fascia is fitted in place. Fit one fascia bracket at location 5 & 6. Secure the fascia angle to the front beam and to the fascia bracket as shown with four screws.

STEP 9.

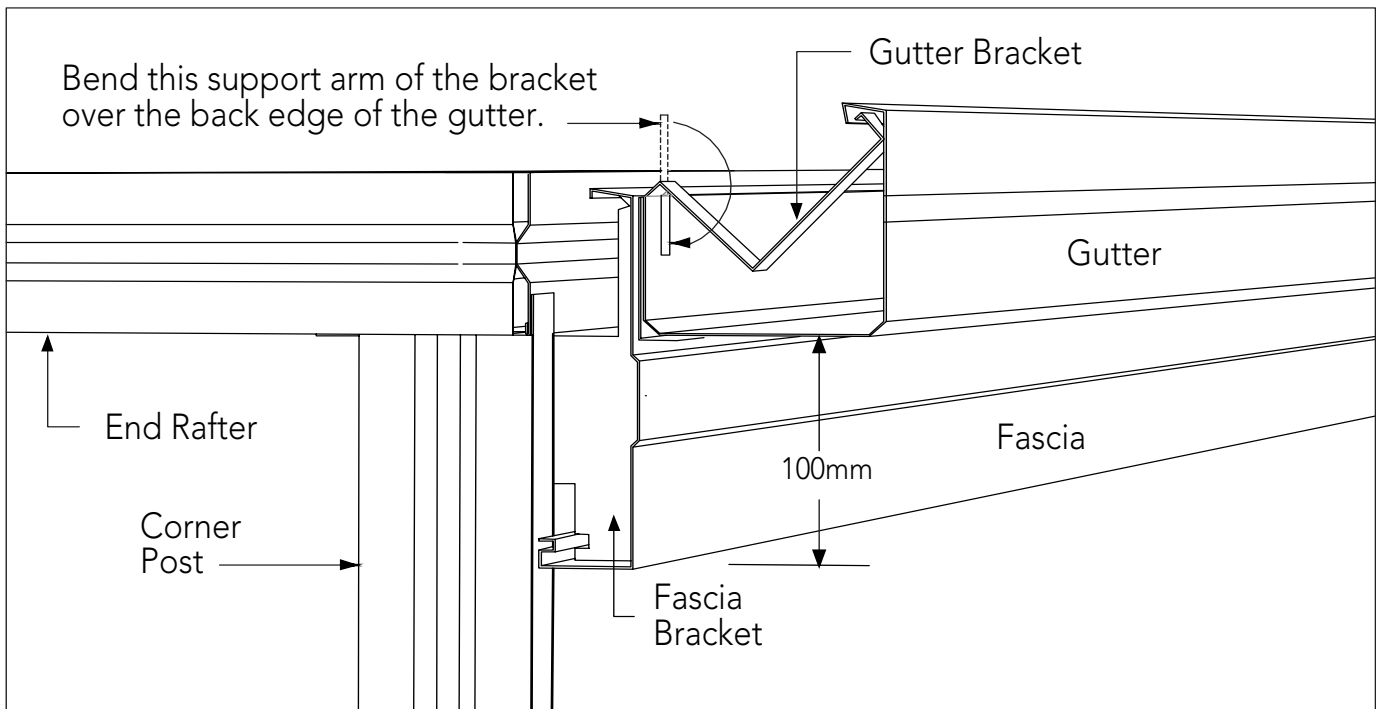
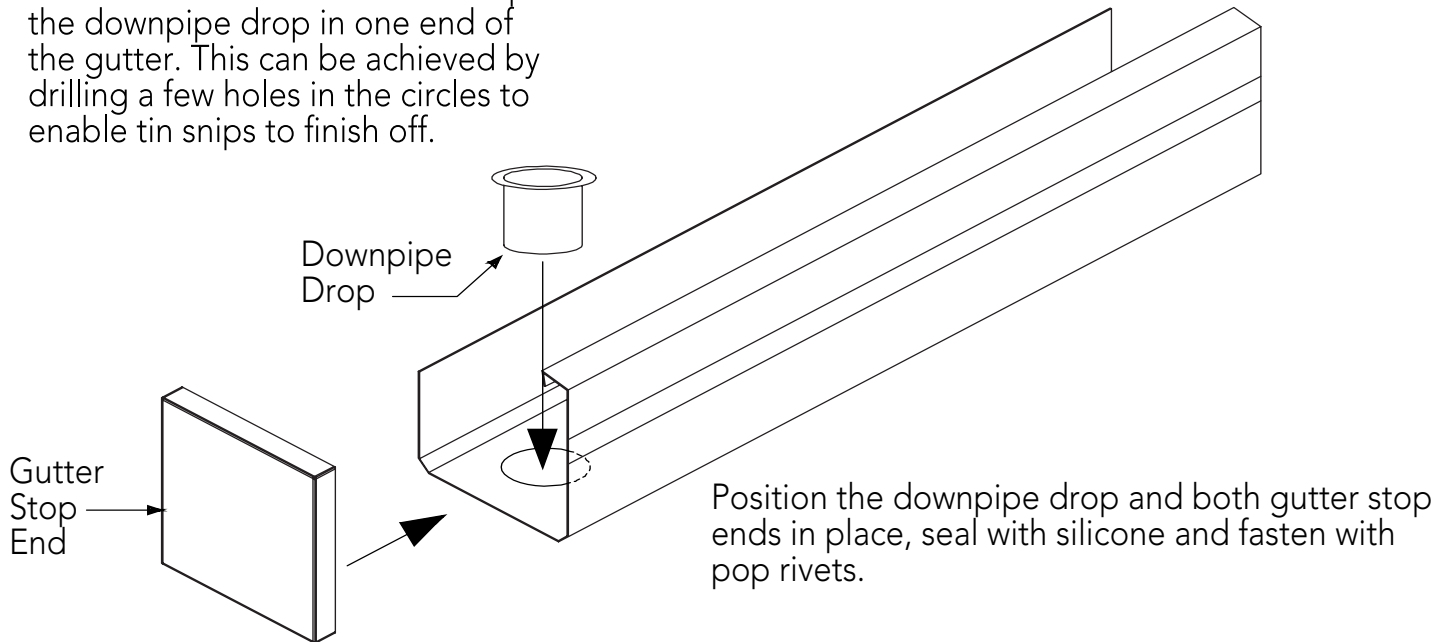
Fit Fascia

Slide the fascia over one bracket, then slide back over the other bracket. Join the two fascia sections together with the fascia joiner using pop rivets.



STEP 10. Fit Gutter and Downpipe

Mark a 50mm round hole to accept the downpipe drop in one end of the gutter. This can be achieved by drilling a few holes in the circles to enable tin snips to finish off.



Mark a line 100mm up from the bottom of the fascia. This line represents the bottom of the gutter brackets. Allow a fall of 10mm towards the downpipe.

Fix gutter brackets to fascia at approximately 950mm centers with two rivets each.

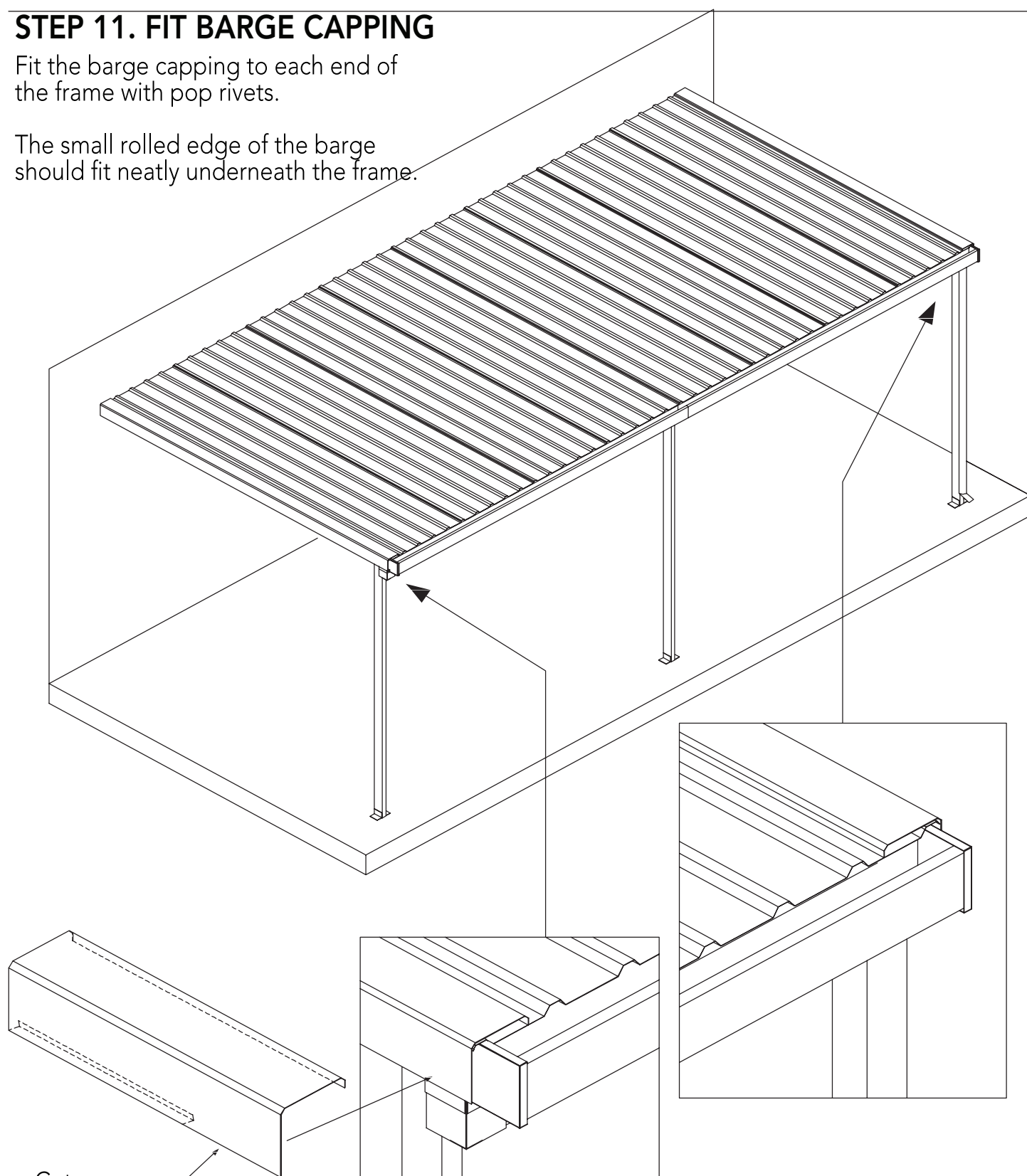
Position gutter on to brackets. Push the top of each bracket into the outer roll of the gutter, and bend the small support arm over the back edge of the gutter. Secure the brackets to the gutter through the bottom of each bracket with one rivet each.

Fix the downpipe to the downpipe drop with rivets. Bend the downpipe strap to suit, and fix to the bottom of the downpipe with rivets. Fix the downpipe strap to each side of the post so the downpipe is parallel to the post. fix the 45 degree end to the bottom of the downpipe in the desired direction.

STEP 11. FIT BARGE CAPPING

Fit the barge capping to each end of the frame with pop rivets.

The small rolled edge of the barge should fit neatly underneath the frame.



Cut away a small section of the rolled edge to enable the barge to fit hard up against the gutter stop end fascia corner and column.

IMMEDIATE MAINTENANCE:

Hose down inside the gutters to remove any metal flings from drilling holes to prevent corrosion.

Remove protective plastic from colorbond.

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 20 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: <http://absco sheds.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

LEVEL 2

LOADINGS

- L1 These structures are classified as Class 10a of Importance Level 2, and have been designed for the following wind loads to AS1702 and the BCA - Volume 1: Refer Table A1.
- L2 The following structural pressure coefficients have been used.
Cp,n (upward) -0.90
Cp,n (downward) +0.6
- L3 Roof live loads to AS1170 - Part 2
Roof cover : nil.
Roof structure : nil.

CONCRETE & FOUNDATIONS

- C1 The foundations shall have a minimum allowable bearing capacity of 75 kPa.
- C2 Concrete F'c = 20 MPa minimum.
- C3 Slab to be poured on 50mm compacted sand bed and waterproof membrane.

STEELWORK

- S1 All 80x40 channel sections shall be Grade G550, AZ50 material with Base Metal Thickness (B.M.T) = 0.80mm u.n.o.

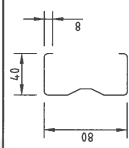
- S2 Provide suitable corrosion protection to all ungalvanised components.
e.g. zinc rich paint.

FIXINGS

- F1 All screws to be N:10 Water Tek's with minimum edge distance of 10mm and pitch of 15mm u.n.o.
- F2 Roof sheeting fixing to purlins and roof frame
(a) At eaves - 1 screw at every pan (i.e. 144 crs.)
(b) Elsewhere - 1 screw every second pan (i.e. 288crs.)
Screws to roof sheeting to have neoprene washers.
- F3 Framing members shall be connected with 2 screws per flange u.n.o.
- F4 All boxed members are to be screws through flanges at 300 max. crs.
- F5 All angles to be galvanised.

APPLICABLE S.A.A. CODES & STANDARDS

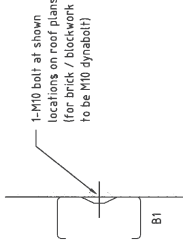
- AS 1170 Parts 1 & 2 Loading Codes.
AS 4600 Cold Formed Steel Structures Code.
AS 1562 Design and Installation of Sheet Roof & Wall Cladding.
AS 1117/1112 Metric Hexagon Commercial Bolts & Screws.
AS 2312 Guide to the Protection of Iron & Steel.
AS 4100 Steel Structures Code.
AS 2870 Residential Slabs & Footings.
AS 3600 Concrete Structures.



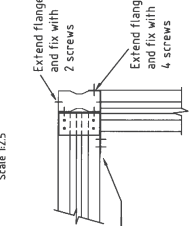
TYPICAL 80x40x0.8 C-SECTION
Scale 1:25



TYPICAL BOXED C-SECTION
Scale 1:25

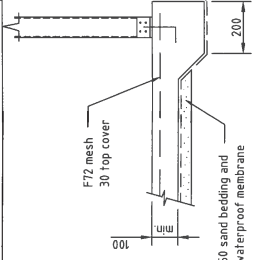


TYPICAL FIXING TO SUPPORT
Scale 1:25

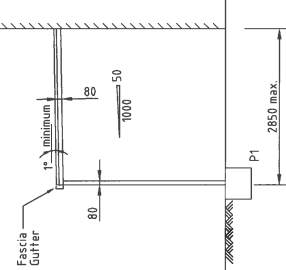


SECTION 4
Scale 1:5

NOTE
This design does not certify the structure to which the awning is fixed to. Refer to Dwg. 06205-003-AW04 for a suggested method of fixing to house fascias.

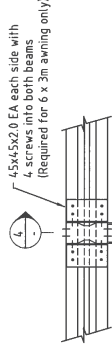


ALTERNATIVE SLAB DETAIL
Scale 1:10



SIDE ELEVATION
Scale 1:50

- B1 - 80x40x0.8 C-section
B2 - 80x40x0.8 Boxed C-section



COLUMN / BEAM CONNECTION
Scale 1:5

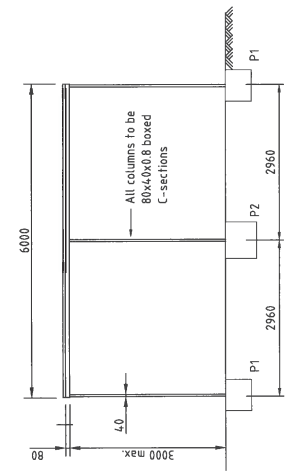
45x45x2.0 EA each side of column with 4 screws into column & 1-M10 Dynabolt (55mm embedment) into footing. Dynabolt may be replaced with cast in bolt of the same diameter with 50mm leg.

PAD FOOTING	B	D
P1 (W4(N))	450	450
P2 (W4(N))	450	600
P1 (W50C)	450	600
P2 (W50C)	450	600

NOTE:

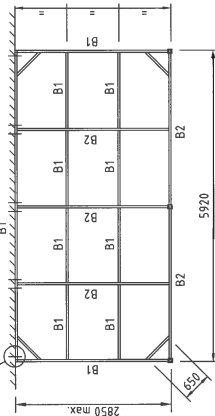
- For cyclonic region W50C
Bell Footing P2 to 600sq. at base
NOTE: Pad ground may be used in lieu of pad footings, refer detail

PAD FOOTING DETAIL
Not to Scale



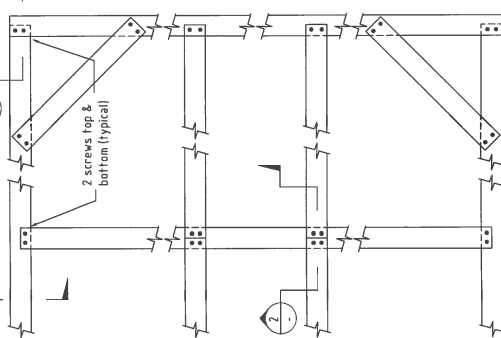
3 x 3m FRONT ELEVATION
Scale 1:50

Support structure
Location of fixing to wall. Refer detail



6 x 3m ROOF PLAN
Scale 1:50

2 screws top & bottom (typical)



SECTION 1
Scale 1:5

SECTION 2
Scale 1:5

SECTION 3
Scale 1:5

ROOF PLAN DETAIL
Scale 1:5

DARREN MCDONALD B.E. (CIVIL)
PPEO 5453 (OLD)
MCE5 3398 (NT)
EC25680 (VIC)
CC448E (TAS)
Signature: [Signature]
Date: SEPT 2011
FOR AND ON BEHALF OF NJA CONSULTING PTY. LTD.



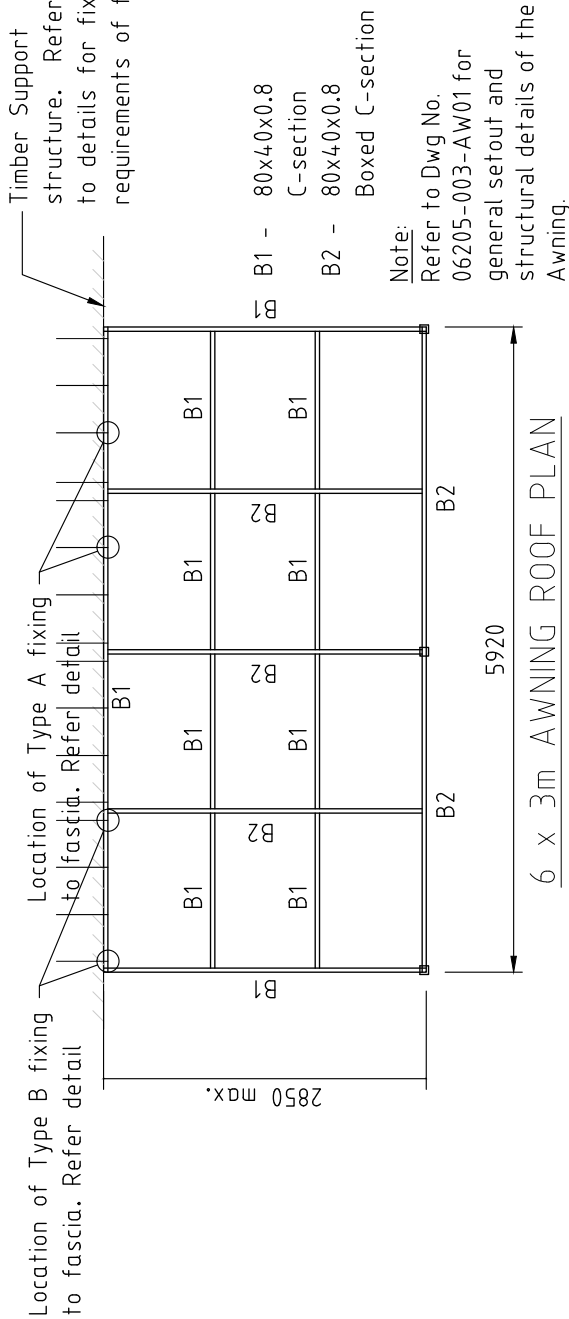
NJA CONSULTING PTY LTD
Unit 10, Level 10
Rivers Chambers, 1
First Office Bldg 14, Springfield, QLD 4177
www.nja.com.au

ABSCO INDUSTRIES
3m x 3m x 6m x 3m
Rivers Chambers, 1
First Office Bldg 14, Springfield, QLD 4177
STRUCTURAL DETAILS

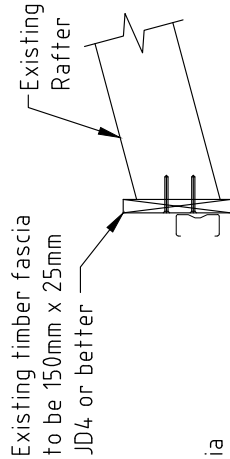
Scale	AS SHOWN	Drawing No.	Rev
Original	Y	06205-003-AW01	A
Drawn	Y	Tech Approved	
Checked	Y		

Notes:

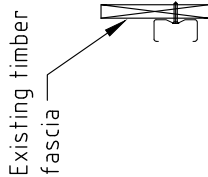
- Existing roof rafters or truss overhangs that provide support of the Awning shall be 120x45 F8, JD4 or better. Rafter size, fixings & existing support structure to be checked and certified by a suitably qualified person as being suitable for providing adequate support to the awning structure.
- When fixing screws into end grain of timber provide pilot holes 80% of the screw shank diameter and locate screws 15mm from timber sides & 30mm from top & bottom.
- The existing roof trusses or rafters which support the attached awning shall be anchored to the top PL using 1/30x0.8 GI looped strap in C1 wind regions and 2/30x0.8 GI looped straps in C2 wind regions (for equivalent anchorage). The top plate shall be anchored to the floor slab or subfloor with M12 rods at centres not exceeding 1200mm. The above anchorages are based on a maximum truss/rafter span of 8000mm and a maximum truss/rafter spacing of 1200mm. The corresponding maximum uplift force for the truss/rafter connection to the top plate is 13kN and 20kN for C1 and C2 regions respectively. The certifier may assess the tiedown in accordance with section 9 of AS1684 to meet these requirements. Refer to absco DWG 06205-003-AW05 for specific tiedown details.



Scale 1:25



Note:
Fix Awning wall plate to timber fascia (or to end grain of rafters with metal fascias) with 1-50mm No. 14 Type 17 Hex head screw.

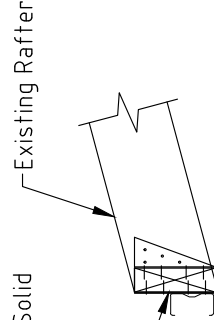


TIMBER FASCIA FIXING

Scale 1:5

Note:
Screw fix existing timber fascia to existing roof rafters or truss overhangs with 1-75mm No. 14 Type 17 Batten screw & provide 1 extra screw each side of awning rafters - typical (Provide 2 extra screws each side of awning rafters for W50 locations)

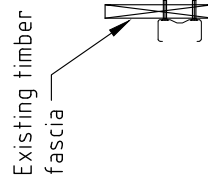
Remove metal fascia and provide 120x35 JD4 Solid nogging at the location of each awning beam
Fix to rafters with joist hangers or 2 framing anchors (5 nails each wing).
Reinstate metal fascia as required.



Scale 1:5

WALL PLATE/FASCIA FIXING TYPE A

Note:
Fix Awning wall plate to timber fascia (or solid nogging behind metal fascias) with 2-50mm No. 14 Type 17 Hex head screws.



METAL FASCIA FIXING

FOR WALL PLATE TYPE B FIXINGS ONLY

Scale 1:5

WALL PLATE/FASCIA FIXING TYPE B










Scale 1:5

DARREN McDONALD B.E. (CIVIL)
RPEQ 5453 (QLD)
MCE5 3398 (NT)
EC25680 (VIC)
CC4481E (TAS)
Signature: [Signature] Date: 08/07/2011
FOR AND ON BEHALF OF NIA CONSULTING PTY. LTD.

NIA Consulting Pty Ltd ABN 89 135 129		ABSOLUTELY NIA		ABSOLUTELY NIA	
Suite 14, Level 1, Pine Clusters Red Office Bldg & Springfield Old 427		ABSOLUTELY NIA		ABSOLUTELY NIA	
No.		Date		Approved	
1. DESIGN 2015		17/07/2015		[Signature]	
2. CHECKED 2015		17/07/2015		[Signature]	

ABSOLUTELY NIA		ABSOLUTELY NIA		ABSOLUTELY NIA	
Scale AS SHOWN		Drawing No.		Rev	
Described		Y		0	
Checked		Y		0	
Drawn		Y		Test Approved	
Checked		Y		DMD	

Position of tie-down connection	Uplift capacity (kN)	
	Unseasoned timber	Seasoned timber
Rafters/trusses to wall frame or floor frame	J2 J3 J4	JD4 JD5 JD6

(b)	Framing anchor as per table, with nails to each end		No. of anchors	No. of strips with 22.8 dia nail each end
			1	4.9 3.5 2.1 3.5 2.9 2.2
			2	8.3 5.9 4.2 5.9 4.9 3.7
(c)	30 x 0.6 mm G.I. Strap as per table			
			1	4.9 3.5 2.1 3.5 2.9 2.2
			2	8.3 5.9 4.2 5.9 4.9 3.7
				
			1	6.5 4.7 3.3 4.7 3.8 2.9
			2	12 8.4 5.9 8.4 6.9 5.2

	No.	J2	J3	J4	timber	timber
Rafter/trusses to wall frame or floor frame					JD4 JD5 JD6	
(c)						
						No. of looped straps 30 x 0.8 mm G.I. 

Looped strap

Nails required each end of looped strap:
 32.8 mm \varnothing for J2
 512.8 mm \varnothing for J4
 512.8 mm \varnothing for J4, J5 and J6

(f)

Cup-head bolt as per table

100 mm max.

	M10	18	18	15	12	9.0
	M12	27	27	20	16	12

(f)

MS plate: 25 mm max.
 75 x 12 mm for M10
 75 x 12 mm for M12

Where bolts are connected in top plates, the top plate shall be designed for uplift.

Top plate

No. of bolts

M16	50	50	46	35	28	21			
2M10	36	36	36	30	24	18			
2M12	54	54	52	40	32	24			
2M10	36	36	36	30	24	18			
2M12	54	54	52	40	32	24			

Bolt as per table

CC4481E (TAS) Signature..... *[Signature]* Date. SEPT 2011
FOR AND ON BEHALF OF NJA CONSULTING PTY. L

Position of tie-down connection	Uplift capacity (kN)	
	Unseasoned timber	Seasoned timber
Lafers to beams, lintels, verandah beams	J2	J3
	J4	J5
	J6	

No. of framing anchors	No. of framing anchors						
	1	4.9	3.5	2.5	3.5	2.9	2.2
2	8.3	5.9	4.2	5.9	4.9	3.7	
4	16	11	7.9	11	9.1	7.0	

A cross-sectional diagram of a single anchor bolt. The bolt is shown passing through a wall. The part of the bolt embedded in the wall is labeled 'Framing anchors as noted, 4 nails per foot of each anchor'. The part of the bolt extending from the wall is labeled '1/2\"/>

No. of straps	1	2	3	4	5	6	7	8	9	10
	8.3	5.9	4.2	5.9	4.9	3.7				
		16	11	7.9	11	9.1	7.0			

[illegible]

Min. roof beam size -
Up to F7: 35 x 70

430 mm

12 16 14 10 7.0 5.0

M10 cup-head bolt adjacent

(b)

50 x 10 mm Ø coach screws
MS plate bent to shape
200 x 38 x 6 mm

12 mm dia. screw

M10 bolt

One M12 or M10 bolt, or 12 mm Ø coach screw (75 mm min. penetration into rafter)

F8 and better: 38 x 50	
Coach screw or bolts	
12 mm dia. screw	11 7.9 5.2 6.6 5.4 3.8
M10 bolt	18 18 18 15 12 9.0
M12 bolt	27 27 26 20 16 12

Position of tie-down connection	Uplift capacity (kN)					
	Unseasoned timber			Seasoned timber		
	J2	J3	J4	JD4	JD5	JD6
Studs to plates						

Bolts as per table

Bolt	18	18	18	15	15	9.0
M10	27	27	26	20	16	12
M12	50	50	46	35	28	21

$$\frac{\text{ROOF LOAD WIDTH (RLW)}}{\text{nts}}$$

ROOF WITH RAFTERS

ents

1. Rafter and trusses shall be anchored to the top plate or directly to slab or subfloor as per the attached details to meet the design uplift force nominated in table 1.
2. It is not possible to cover all of the possible suitable tie-down methods and combinations. Where any doubt exists as to the suitability of the existing or proposed tie-down the certifier shall refer specifically to section 9 of AS1684 to assess the adequacy of the tie-downs to meet the uplift forces in table 1.

ROOF LOAD WIDTH (RLW)	RAFTER / TRUSS SPACING	WIND CLASSIFICATION					
		WZ/N3			C1		
		TILE ROOF	SHEET ROOF	TILE ROOF	TILE ROOF	SHEET ROOF	TILE ROOF
1500	900	3.2	3.8	4.3	4.8	6.8	7.4
	1200	3.6	4.3	5.0	5.7	8.1	8.9
3000	900	4.5	5.5	6.5	7.6	10.7	11.8
	1200	5.3	6.5	8.0	9.5	13	15
4500	900	5.7	7.3	8.8	10.4	15	18
	1200	7.0	9.1	11.1	13	18	20

[illegible]

attache
absc
awning

TRUSSED ROOF

attached
abso
owing

No.	ORIGINAL ISSUE	Date	By	Approved	Drawn No.	Rev
8		12/9	DHD	Approved	06205-003-AW05	0