ABN: 13 001 334 676   Ph:(02) 6029 2411

E-mail: pjn@pjnsheds.com.au
Web: www.pjnsheds.com.au
Licence no. 164513C

3m wide x 3m deep x

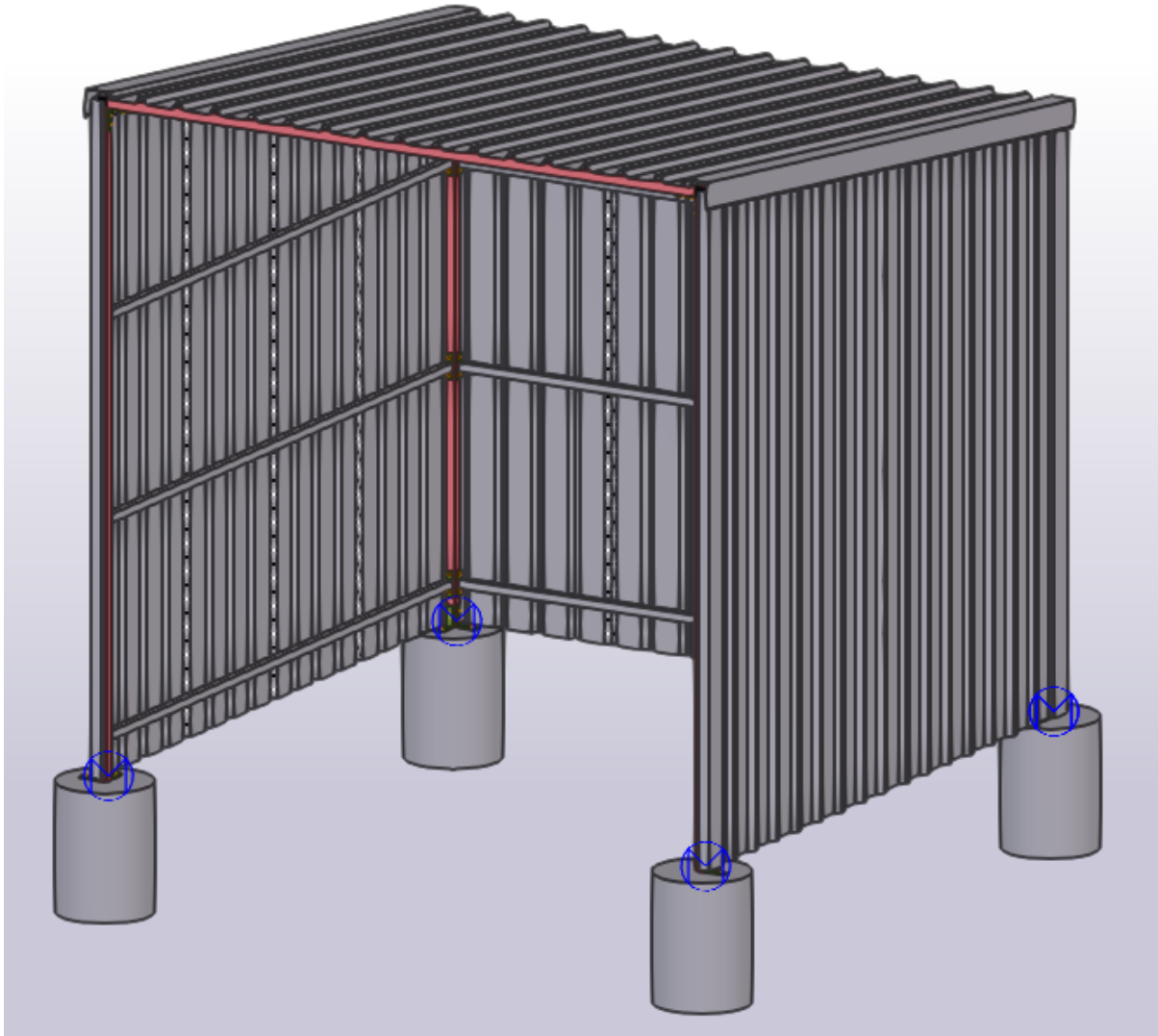**(1.65, 2.65m & 3.1m) entry height**

Installation Instructions

These structures are the heavy duty standard expected of all PJN products. Practical experience installing concrete footings & steel cladding is required. Experience & tools capable of driving screws through 0.47mm thick cladding and into 2.5mm RHS are required.

All relevant approvals from local authorities are the responsibility of the purchaser.

If you require assistance, please do not hesitate to contact a highly experienced erector:

LUCAS GREEN
PTY LTD

📞 0421 414 017   ■ Animal Shelter Installation
✉ lucasgreen1991@outlook.com   ■ Fabrication and Welding

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3m wide x 3m deep x

(1.65, 2.65m & 3.1m) entry height

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 3, 4 or 5.

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 4 x 450BP x 600D concrete footings and anchored down appropriately as illustrated in "Footing Diagram" page 6.   ***DIAL BEFORE YOU DIG!!!***
- Ensure footings will not interfere with existing services.
- If installing more than one bay, also refer to "Extra Bay" Instructions.

Tools Required

Drill & 12mm Masonary Drill Bit	Ladder	Rattle Gun with 18mm socket or 18mm Spanner	Tek Gun & 5/16" Tek Bit	Spirit Level	Ratchet Strap	Tape Measure	Chalk line String line

Safety Notes

- Some parts may have sharp edges. It is advisable to wear gloves when handling these items and safety glasses if drilling holes. Work boots are highly recommended.
- Do not erect your shed in windy conditions.
- Ensure that the shed is securely anchored to a solid foundation immediately after construction of the frame is completed.
- Two or more people are required to erect this structure.

Recommended

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3m x 3m x 1.65m High

Component Packing List:

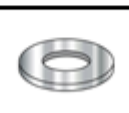| QTY	Component Description	Part No.	Check	QTY	Component Description	Part No.	Check
1	50x50x2.5 GAL RHS 1300mm	RHS1		4	Sheeting @ 3280mm	S1	
1	50x50x2.5 GAL RHS 1300mm	RHS2		4	Sheeting @ 1335mm	S2	
1	50x50x2.5 GAL RHS 1650mm	RHS3		2	Sheeting @ 1360mm	S3	
1	50x50x2.5 GAL RHS 1650mm	RHS4		2	Sheeting @ 1445mm	S4	
1	50x50x2.5 GAL RHS 3030mm	RHS5		2	Sheeting @ 1530mm	S5	
1	50x50x2.5 GAL RHS 3030mm	RHS6		2	Sheeting @ 1620mm	S6	
2	50x50x2.5 GAL RHS 3150mm	RHS7		220	Wall Teks	TS1	
8	40x40x2.5 GAL RHS 3010mm	RHS8		160	Roof Teks	TS2	
22	100 x 100 Corner Brackets	BR1		2	Barge Flashing 3280mm	F1	
18	40x40 Rail Mounting Brackets	BR2		2	Front Corner Flashing 1680mm	F2	
130	M12x20 Zinc Hex Set Screw	B1		2	Back Corner Flashing 1335mm	F3	
130	M12 Flat Washer Zinc	W1		2	Truss Angles 3040mm	A1	
6	20x20 RHS Corner Brace	CB1		8	M12 Excalibur Ancor Bolts	B2	

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(1.65, 2.65m & 3.1m) entry height

3m x 3m x 2.65m High

Component Packing List:

QTY	Component Description	Part No.	Check
1	50x50x2.5 GAL RHS 2300mm	RHS1	
1	50x50x2.5 GAL RHS 2300mm	RHS2	
1	50x50x2.5 GAL RHS 2650mm	RHS3	
1	50x50x2.5 GAL RHS 2650mm	RHS4	
1	50x50x2.5 GAL RHS 3030mm	RHS5	
1	50x50x2.5 GAL RHS 3030mm	RHS6	
2	50x50x2.5 GAL RHS 3150mm	RHS7	
11	40x40x2.5 GAL RHS 3010mm	RHS8	
22	100 x 100 Corner Brackets	BR1	
24	40x40 Rail Mounting Brackets	BR2	
140	M12x20 Zinc Hex Set Screw	B1	
140	M12 Flat Washer Zinc	W1	
6	20x20 RHS Corner Brace	CB1	

QTY	Component Description	Part No.	Check
4	Sheeting @ 3280mm	S1	
4	Sheeting @ 2335mm	S2	
2	Sheeting @ 2360mm	S3	
2	Sheeting @ 2445mm	S4	
2	Sheeting @ 2530mm	S5	
2	Sheeting @ 2620mm	S6	
300	Wall Teks	TS1	
160	Roof Teks	TS2	
2	Barge Flashing 3280mm	F1	
2	Front Corner Flashing 2680mm	F2	
2	Back Corner Flashing 2335mm	F3	
2	Truss Angles 3040mm	A1	
8	M12 Excalibur Ancor Bolts	B2	

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(1.65, 2.65m & 3.1m) entry height

3m x 3m x 3.1m High
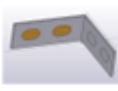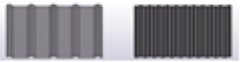
Component Packing List:

QTY	Component Description	Part No.	Check
1	50x50x2.5 GAL RHS 2750mm	RHS1	
1	50x50x2.5 GAL RHS 2750mm	RHS2	
1	50x50x2.5 GAL RHS 3100mm	RHS3	
1	50x50x2.5 GAL RHS 3100mm	RHS4	
1	50x50x2.5 GAL RHS 3030mm	RHS5	
1	50x50x2.5 GAL RHS 3030mm	RHS6	
2	50x50x2.5 GAL RHS 3150mm	RHS7	
12	40x40x2.5 GAL RHS 3010mm	RHS8	
22	100 x 100 Corner Brackets	BR1	
26	40x40 Rail Mounting Brackets	BR2	
145	M12x20 Zinc Hex Set Screw	B1	
145	M12 Flat Washer Zinc	W1	
6	20x20 RHS Corner Brace	CB1	

QTY	Component Description	Part No.	Check
4	Sheeting @ 3280mm	S1	
4	Sheeting @ 2785mm	S2	
2	Sheeting @ 2810mm	S3	
2	Sheeting @ 2895mm	S4	
2	Sheeting @ 2980mm	S5	
2	Sheeting @ 3070mm	S6	
350	Wall Teks	TS1	
160	Roof Teks	TS2	
2	Barge Flashing 3280mm	F1	
2	Front Corner Flashing 3130mm	F2	
2	Back Corner Flashing 2785mm	F3	
2	Truss Angles 3040mm	A1	
8	M12 Excalibur Ancor Bolts	B2	

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Footing Diagram

BACK

LEFT   RIGHT

3080

4356

All footings are to be level
Footing sizes (32MPA)
4 x 450BP 600 deep
ALL HOLES TO BE CLEANED OUT
ALL CONCRETE VIBRATED

FRONT
3080
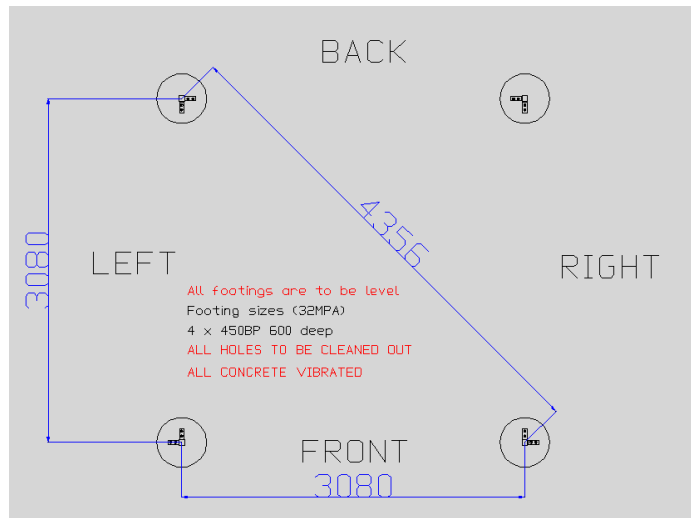
Note: Refer to Extra Bay Instructions for footing diagram if erecting more than one bay.

Elevations

1.65m High:
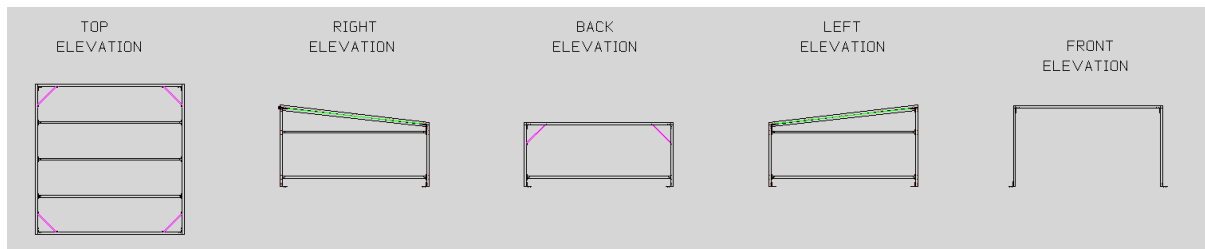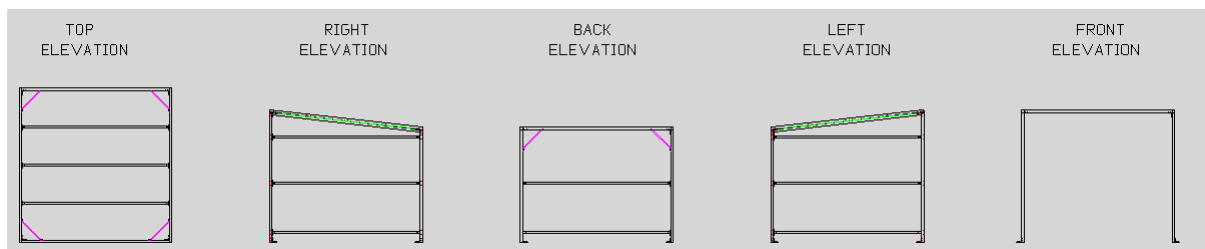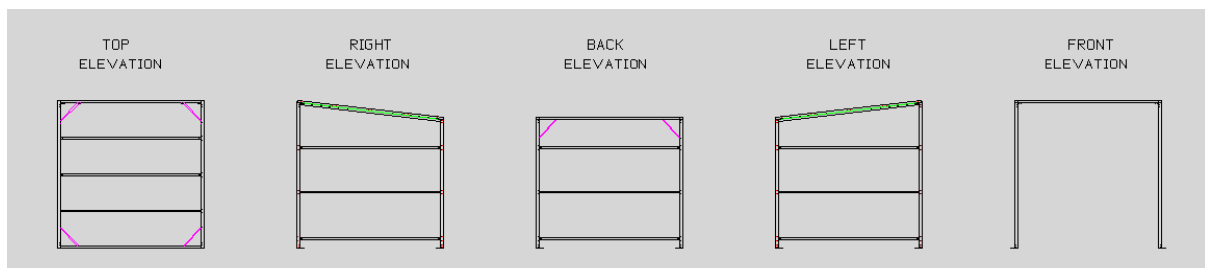
TOP ELEVATION   RIGHT ELEVATION   BACK ELEVATION   LEFT ELEVATION   FRONT ELEVATION

2.65m High:

TOP ELEVATION   RIGHT ELEVATION   BACK ELEVATION   LEFT ELEVATION   FRONT ELEVATION

3.1m High:

TOP ELEVATION   RIGHT ELEVATION   BACK ELEVATION   LEFT ELEVATION   FRONT ELEVATION

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Frame Assembly

Step 1:

If erecting more than 1 bay with no internal wall, only do this step for one truss, the angle only needs to be installed if there is a wall there. Refer to page 8 to determine which truss.

Secure Truss angles (A1) to Trusses (RHS7) using 3 middle holes only for now, ensuring they match orientation below & plastic cap is at front of structure.
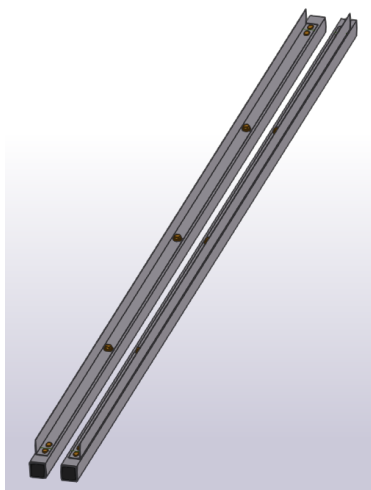
Items Needed

2	50x50x2.5 GAL RHS 3150mm		RHS7
2	Truss Angles 3040mm		A1
6	M12x20 Zinc Hex Set Screw		B1
6	M12 Flat Washer Zinc		W1

Step 2:

Items Needed

2	50x50x2.5 GAL RHS 3150mm	RHS7		2	Truss Angles 3040mm		A1

1	50x50x2.5 GAL RHS 1300, 2300 or 2750mm	RHS1	1.65m = 4 / 2.65 & 3.1m = 6	40x40x2.5 GAL RHS 3010mm		RHS8
1	50x50x2.5 GAL RHS 1300, 2300 or 2750mm	RHS2	1.65m = 8 / 2.65 & 3.1m = 12	40x40 Rail Mounting Brackets		BR2
1	50x50x2.5 GAL RHS 1650, 2650 or 3100mm	RHS3	1.65m = 40 / 2.65 & 3.1m = 48	M12x20 Zinc Hex Set Screw		B1
1	50x50x2.5 GAL RHS 1650, 2650 or 3100mm	RHS4	1.65m = 40 / 2.65 & 3.1m = 48	M12 Flat Washer Zinc		W1
8	100 x 100 Corner Brackets	BR1	1.65m = 8 / 2.65 & 3.1m = 12	Wall Teks		TS1

Lay out portals either side of footings so once together they can be stood up on to footings.

Front & Back Columns (RHS1-4) have L & R (Left & Right) Scribed on the inside face.

IMPORTANT: The only face with no holes should be facing the front & back.

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(1.65, 2.65m & 3.1m) entry height

Note: 1.65m high structure only has 1 x Girt (RHS 8) each side.
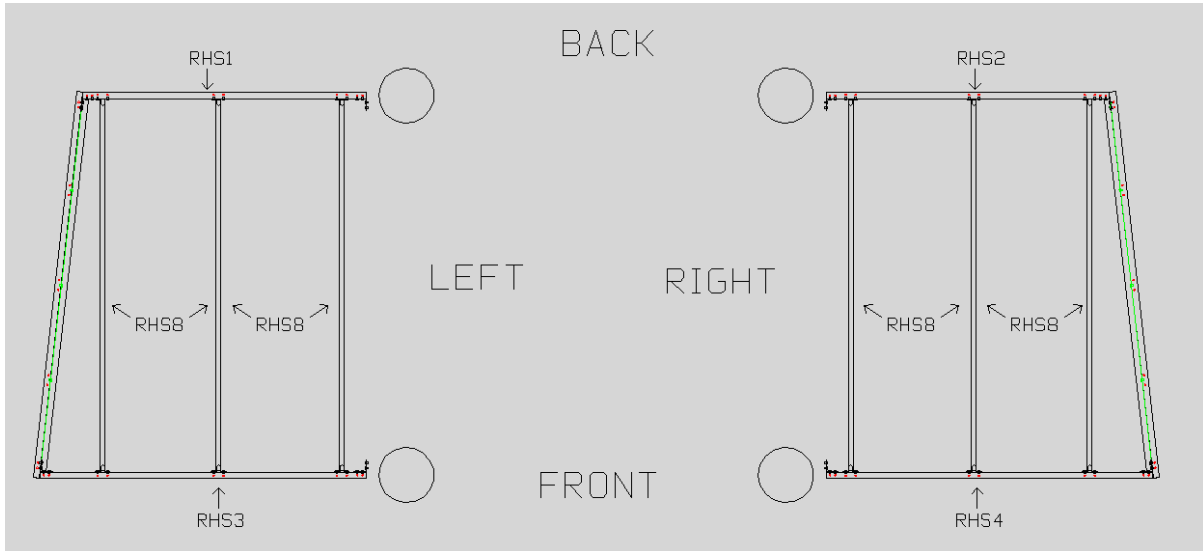
Trusses are to be positioned with angle facing correct way & plastic cap at the front.

This Side of Truss Facing Up →

← This Side of Truss Facing Down
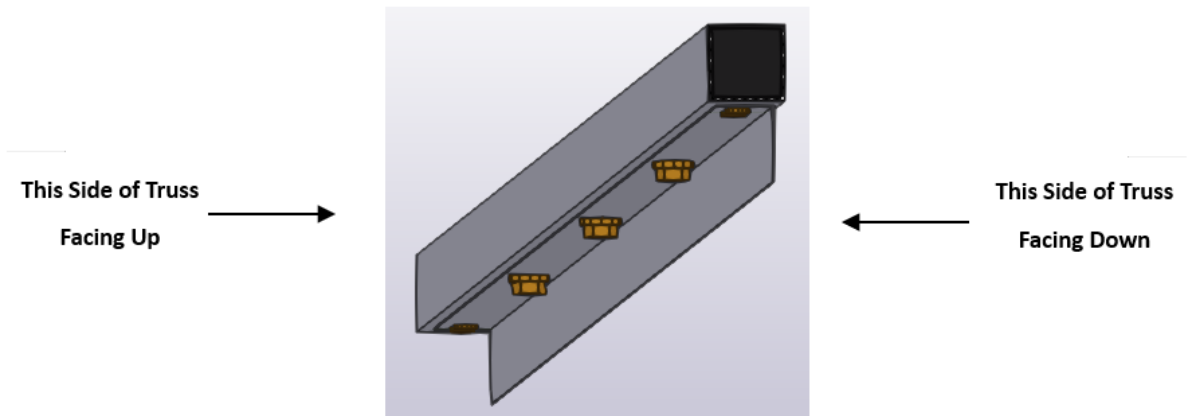
Step 3: (Do steps 3 to 7 for both sides)

Secure Columns (RHS1, 2, 3 & 4) to trusses with (BR1 & B1) leaving bolts for back columns loose. This is important as when installing 40x40x2.5 RHS Girts it will set the angle of the Corner Brackets.
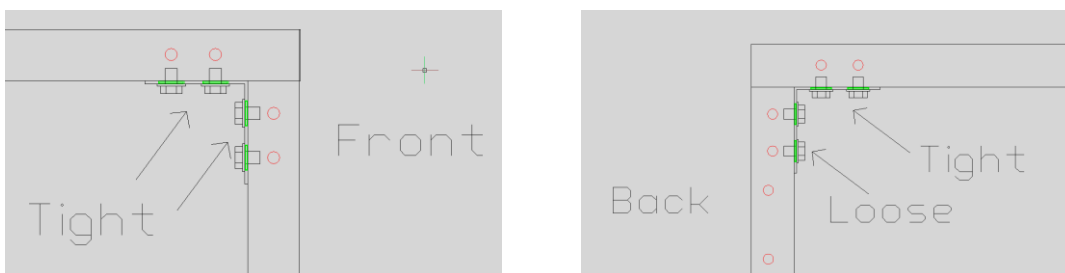
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(1.65, 2.65m & 3.1m) entry height

Step 4:

Insert 40x40 Rail Mounting Brackets (BR2) into 40x40x2.5 RHS Girts (RHS8) making sure to keep seam of RHS to the top or the bottom. This will ensure easier fastening of the sheeting later by not having to screw through the seam.
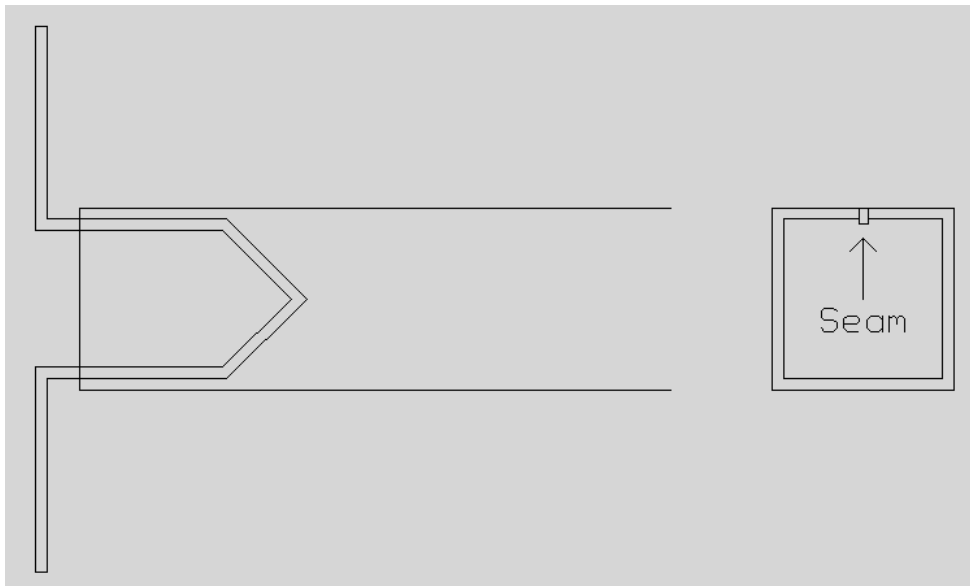
Step 5:

Secure 40x40x2.5 RHS Girts (RHS8) between Columns. When installing the Girts, the top Corner Brackets will automatically adjust to the correct angle.

Note: 1.65m high structure only has 1 x Girt (RHS 8) each side.

For a better finish, place the seam facing down for the bottom 2 & facing up for the top one so it won't be visible once completed.
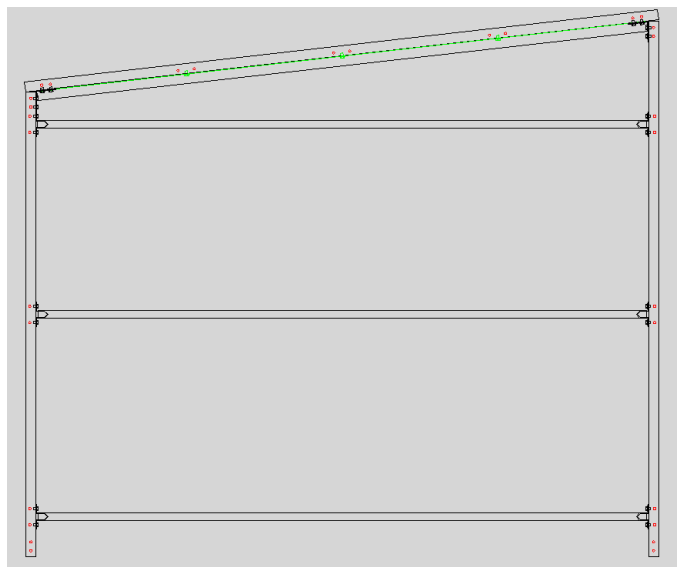
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3m wide x 3m deep x

(1.65, 2.65m & 3.1m) entry height

Step 6:

Install Corner Brackets to bottom of columns for footing connections, as in orientation shown in footing diagram on page 6. (this keeps brackets & bolts out of the way of animals hooves etc.)

(In the case of Installing doors or extra bays, refer to extra instructions for footing connections.)
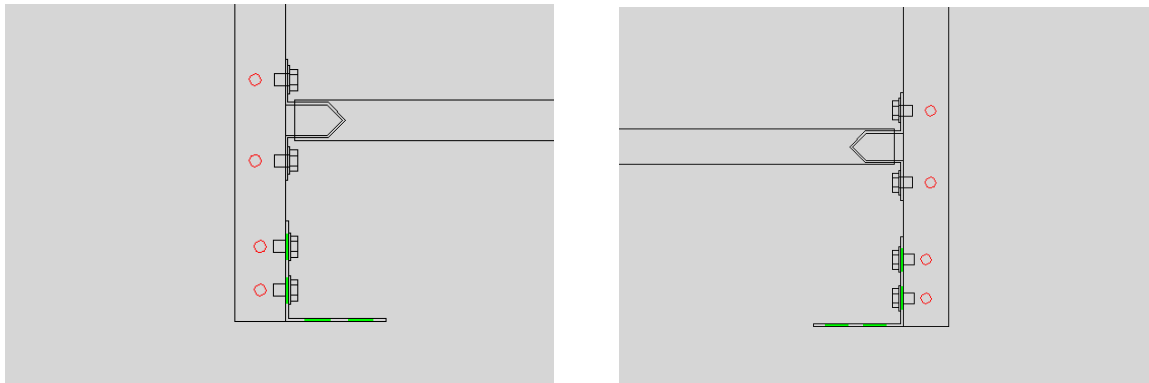
Step 7:

Spread bottoms of columns to the correct distance apart (3080mm Centres) then screw Girts (RHS8) to Brackets (BR2).

For a better finish, screw the Teks in through the bottom face of the bottom 2 Girts & through the top face of the top girt so they won't be visible once completed.

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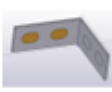
Step 8:

Items Needed

1	50x50x2.5 GAL RHS 3030mm		RHS6	20	M12x20 Zinc Hex Set Screw		B1
8	100 x 100 Corner Brackets		BR1	20	M12 Flat Washer Zinc		W1
2	20x20 RHS Corner Brace		CB1				

For this step you will need the piece of 50x50x2.5 GAL RHS 3030mm long with a "B" (for back) scribed onto it. (Part No. RHS6)

Start by fastening the 8 Corner Brackets (BR1) to both portal sections 50mm in from the corner.

Tighten Corner Brackets onto the Trusses 50mm in from each end.

Leave Brackets on Columns loose for now. Do not tighten these until after step 9.
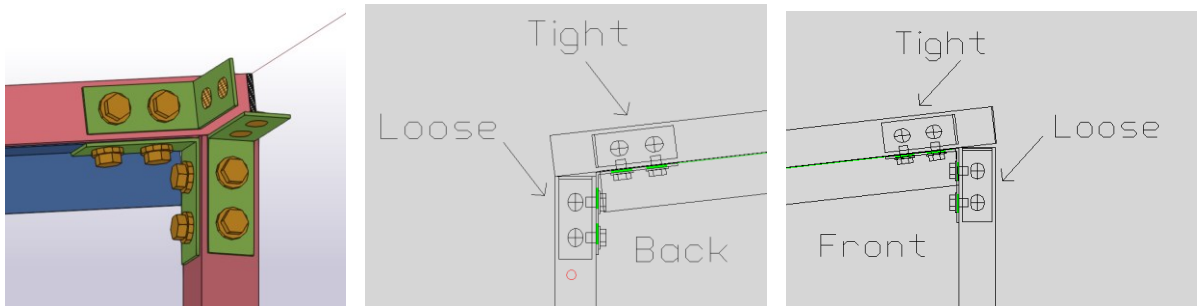
Install 50x50x2.5 GAL RHS 3030mm long with a "B" (for back) scribed onto it. (Part No. RHS6)

Bolt on to one portal only & also bolt on 20x20 RHS Corner Braces (CB1)

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(1.65, 2.65m & 3.1m) entry height
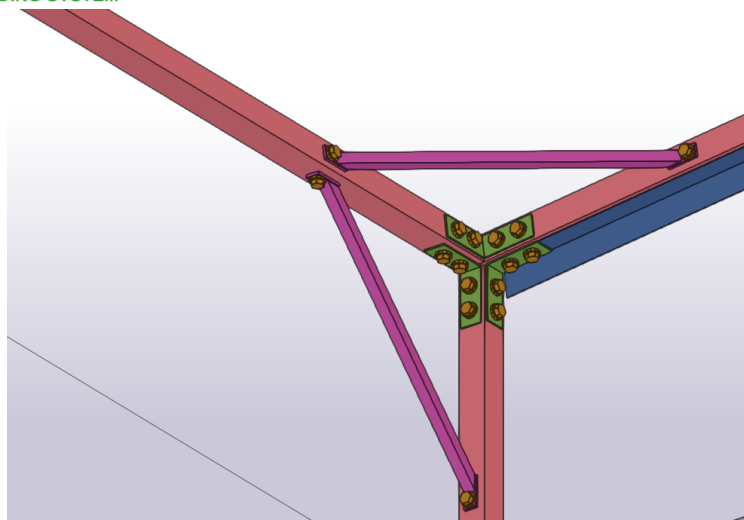
Step 9:

Stand both portals up & secure together. Install 2 x 20x20 RHS Corner Braces (CB1) on other side.
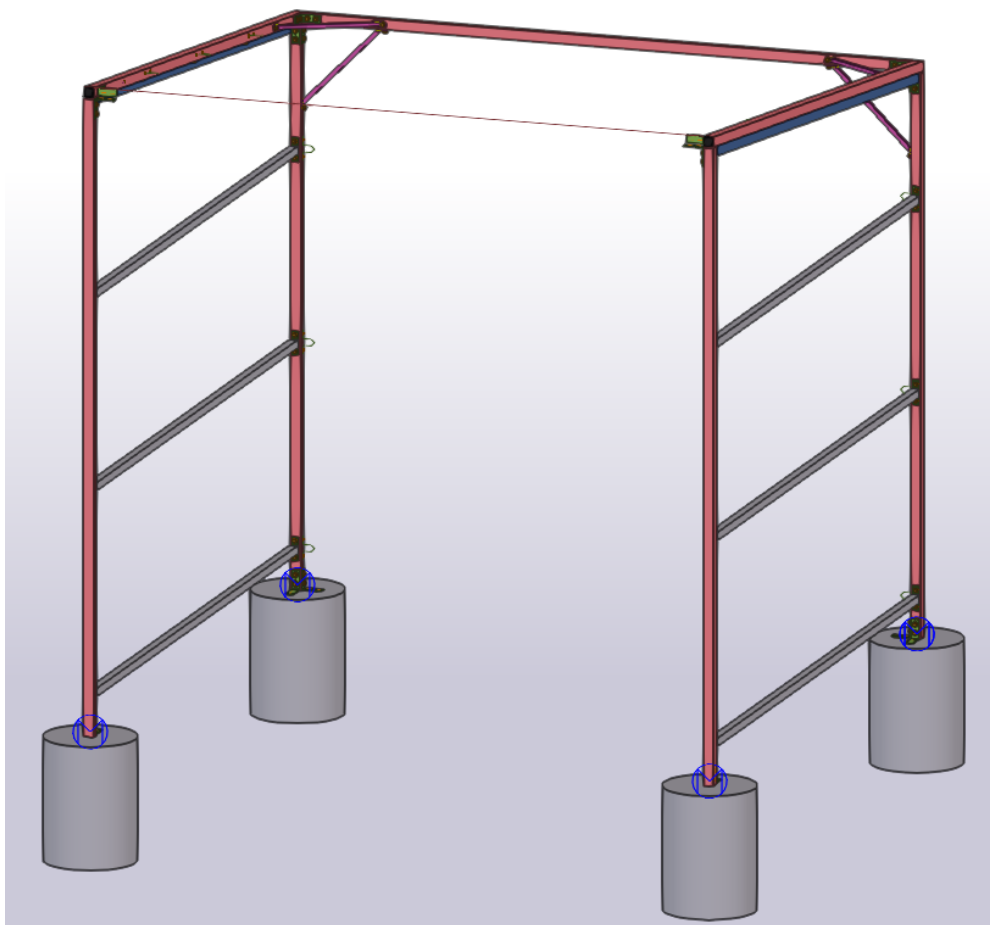
After Tightening all other bolts you can now go ahead & tighten the back bolts that were left loose in step 8.

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(1.65, 2.65m & 3.1m) entry height

Important: Only do this on the Back 2 Columns. Leave Front loose until front RHS (RHS5) is on.

Step 10:

Items Needed

1	50x50x2.5 GAL RHS 3030mm		RHS5	2	20x20 RHS Corner Brace		CB1
1.65m = 4	40x40x2.5 GAL RHS 3010mm		RHS8	1.65m = 8	Mounting Brackets		BR2
2.65m = 5				2.65m = 10			
3.1m = 6				3.1m = 12			
1.65m = 24	M12x20 Zinc Hex Set Screw		B1	1.65m = 24	M12 Flat Washer Zinc		W1
2.65m = 28				2.65m = 28			
3.1m = 32				3.1m = 32			

Install 50x50x2.5 GAL RHS 3030mm long with a "F" (for Front) scribed onto it. (Part No. RHS5) this piece should have the PJN web address sticker on it, face this forward.

Also bolt on 2 x 20x20 RHS Corner Braces (CB1).

After Tightening all other bolts you can now go ahead & tighten the remaining (front) bolts that were left loose in step 8.

TOP ELEVATION

FRONT ELEVATION
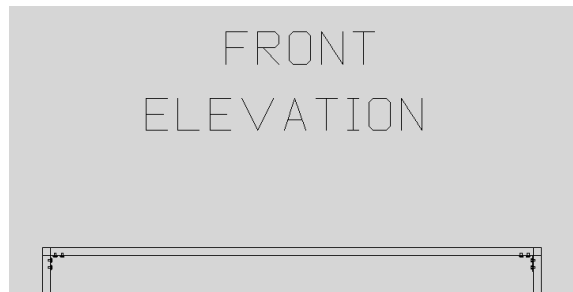
Complete "Step 4" for 3 x Roof Purlins &:

- For 1.65m High Structure = 1 x Back wall Girt.
- For 2.65m High Structure = 2 x Back wall Girts.
- For 3.1m High Structure = 3 x Back wall Girts.

Install 3 x Roof Purlins & All Back wall Girts. Secure with Screws as per Step 7.

Important: Making sure back columns maintain correct distance apart from each other (3080mm)

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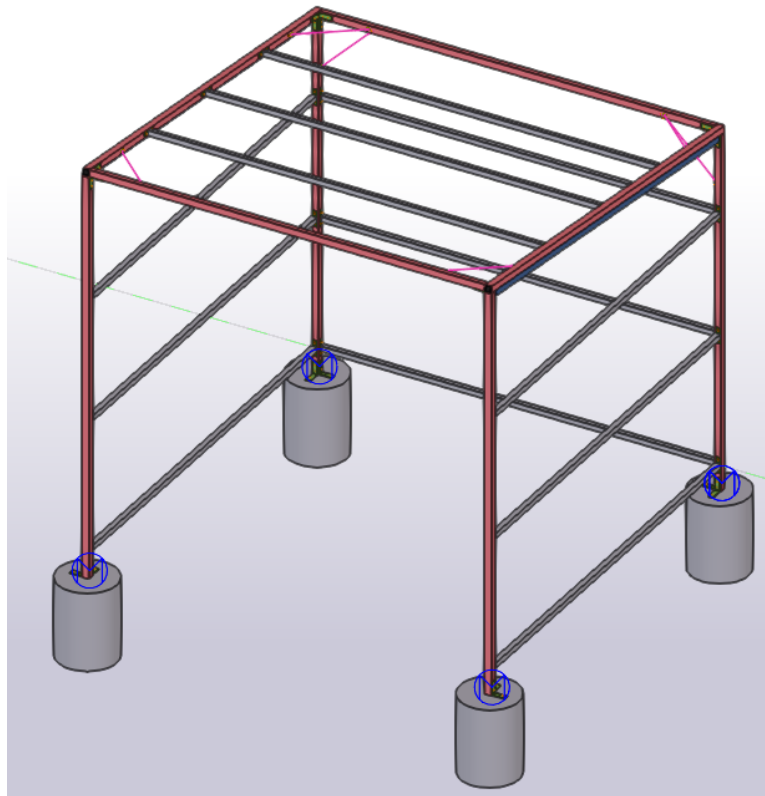
Step 11:   Diagram 1a.

Items Needed			
2	100 x 100 Corner Brackets		BR1
4	M12x20 Zinc Hex Set Screw		B1
12	M12 Flat Washer Zinc		W1
8	M12 Excalibur Ancor Bolts		B2
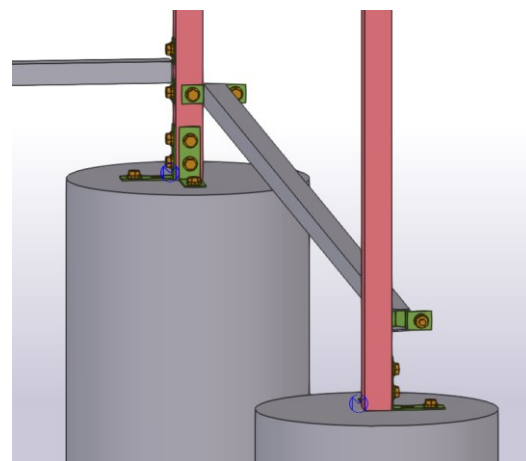
In the application of an animal shelter, Bolt 1 x Corner Bracket to outside of each Front Column. Per Diagram 1a. This will eliminate animals standing on them.

Other wise in a domestic application, these brackets can be facing inwards.

Position all Columns on footings referring to the "Footing Diagram" (Page 6). Secure frame to footings using M12 Excalibur Bolts suppied (B2). One bolt per bracket through outer hole.

As per diagram above. Swinging bottom girts 90° will assist with making room for drill.

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<u>If Your Structure has more than 1 Bay, Refer to Extra Instructions now to finish Frame component.</u>

Important: Before Commencing installation of sheeting, use a ratchet strap or similar device to square up each side to assist fixing of sheeting.
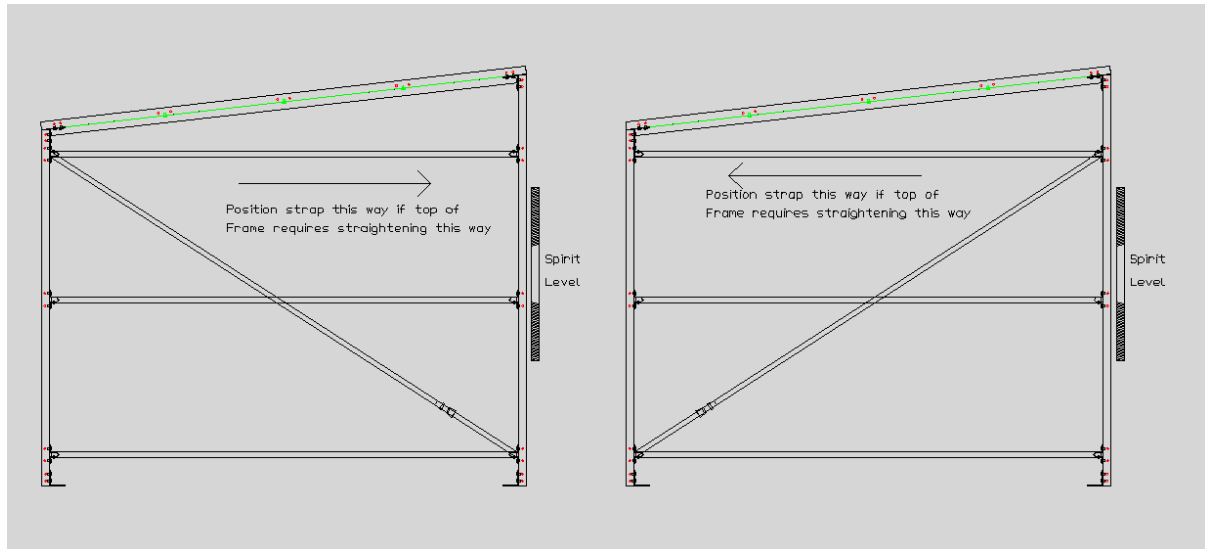
Installing Cladding & Flashings

Note: When fixing cladding use Chalkline/Stringline to ensure all rows of teks end up in a straight line

*****DO NOT PRE DRILL SHEET PACKS*****

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Chalk line /

String line
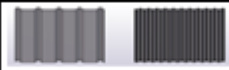
Step 1:

Items Needed

4	Sheeting @ 3280mm	S1	T/Dek = 75 or Corry = 55	Roof Teks		TS2

Install Roof Sheeting. Do not screw through each of the outer ribs. These will get screwed down when installing the Flashings. See screw fixing positions for assistance on Page 19.

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(1.65, 2.65m & 3.1m) entry height

Do not screw down this rib
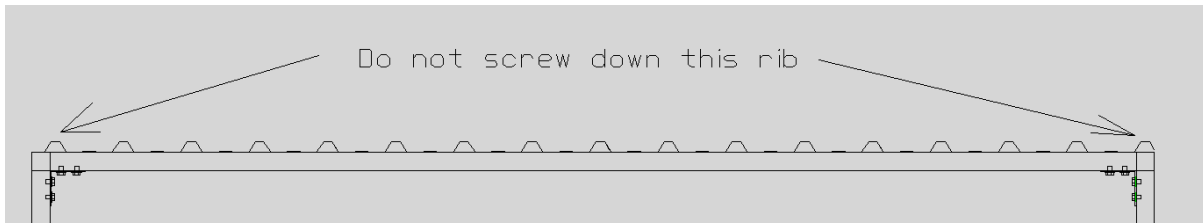
Start with the "overlap" of the sheet flush with the outside of the truss.
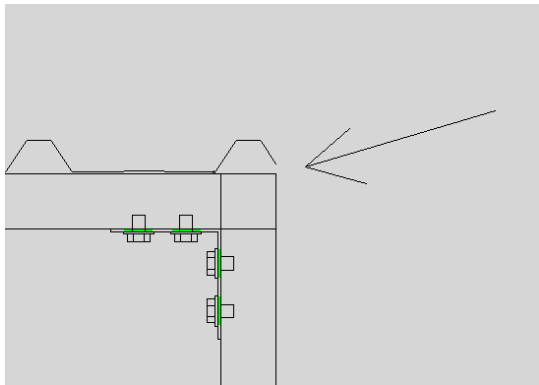
Position sheets overhanging by 50mm over the front & 80mm over the back.
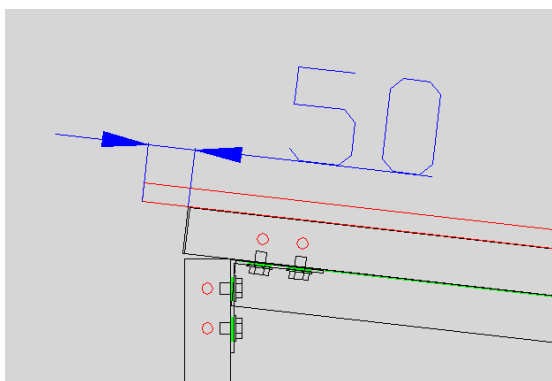
Front Overhang   Back Overhang

Step 2:

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3m wide x 3m deep x

(1.65, 2.65m & 3.1m) entry height

Items Needed

1.65m High Structure		
2	Sheeting @ 1360mm	S3
2	Sheeting @ 1445mm	S4
2	Sheeting @ 1530mm	S5
2	Sheeting @ 1620mm	S6
T/Dek = 102 or Corry = 126	Wall Teks	TS1

2.65m High Structure		
2	Sheeting @ 2360mm	S3
2	Sheeting @ 2445mm	S4
2	Sheeting @ 2530mm	S5
2	Sheeting @ 2620mm	S6
T/Dek = 136 or Corry = 168	Wall Teks	TS1

3.1m High Structure		
2	Sheeting @ 2810mm	S3
2	Sheeting @ 2895mm	S4
2	Sheeting @ 2980mm	S5
2	Sheeting @ 3070mm	S6
T/Dek = 136 or Corry = 168	Wall Teks	TS1

Install Side wall Sheeting. 1 sheet at a time, working front to back.

Start with the "overlap" of the sheet flush with the outside of the Front Column.

IMPORTANT: All Wall Sheeting is designed to be installed 10mm from ground level.

See screw fixing patterns for assistance on page 19.

Step 3:

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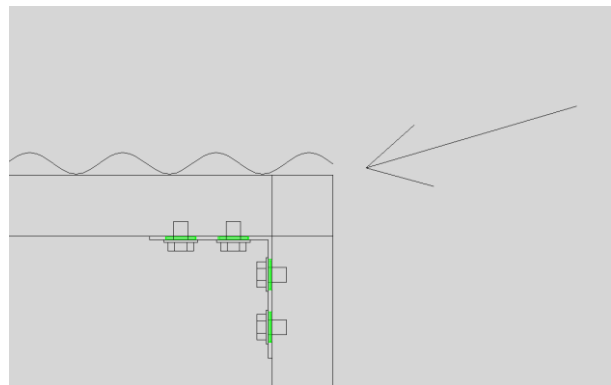
E-mail: pjn@pjnsheds.com.au
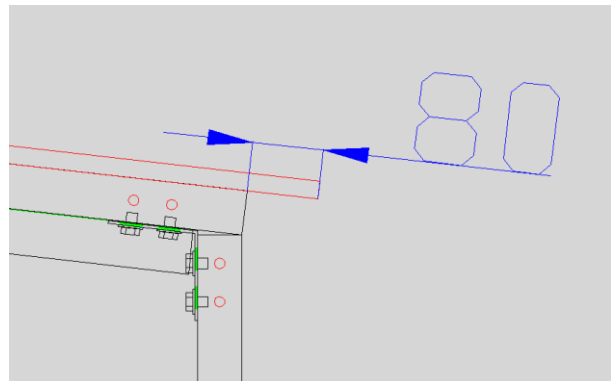Web: www.pjnsheds.com.au
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3m wide x 3m deep x

(1.65, 2.65m & 3.1m) entry height

Items Needed

2.65m High Structure

4	Sheeting @ 1335mm		S2
T/Dek = 34	Wall Teks		TS1
or			
Corry = 42			

2.65m High Structure

4	Sheeting @ 2335mm		S2
T/Dek = 51	Wall Teks		TS1
or			
Corry = 63			

3.1m High Structure

4	Sheeting @ 2785mm		S2
T/Dek = 68	Wall Teks		TS1
or			
Corry = 84			

Install Back wall Sheeting. Line up sheets using the roof sheets as a guide.

Start with the "overlap" of the sheet flush with the outside of the Back Column.

IMPORTANT: All Wall Sheeting is designed to be installed 10mm from ground level.

See screw fixing patterns for assistance on page 19.

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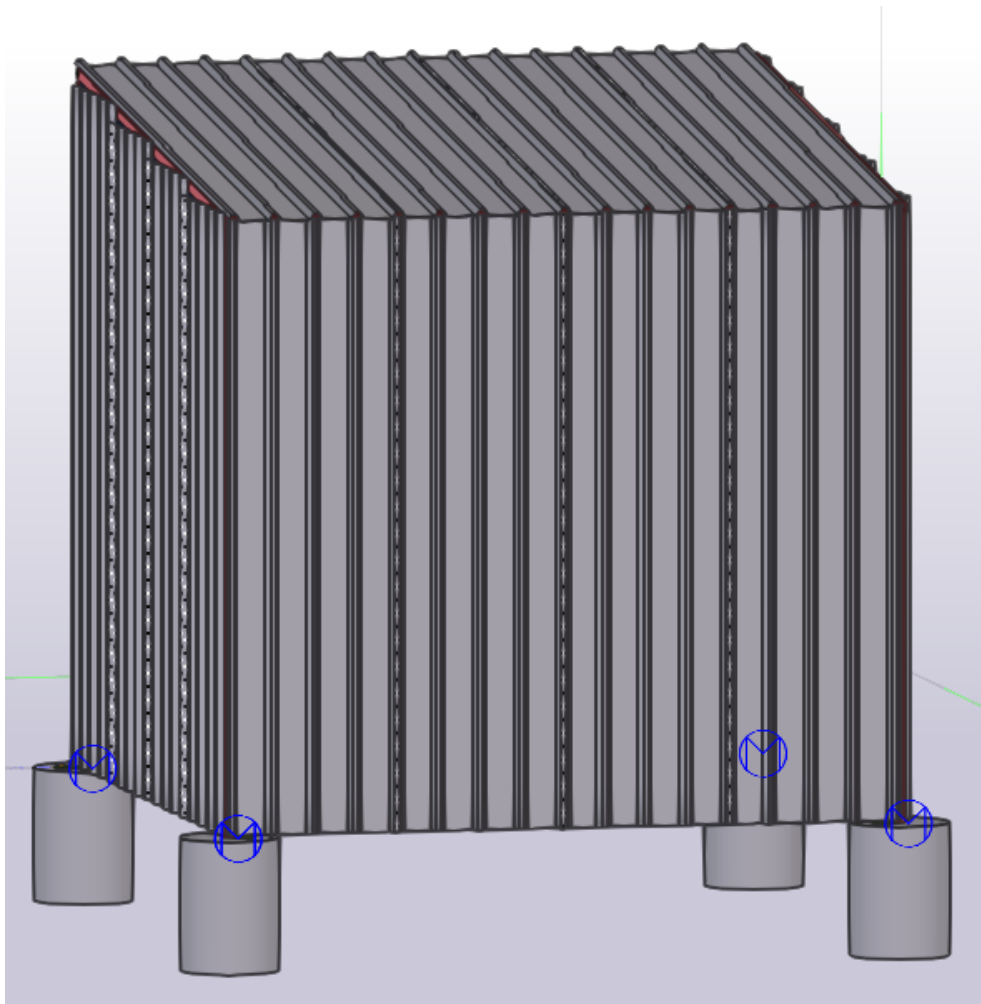
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3m wide x 3m deep x

(1.65, 2.65m & 3.1m) entry height

Screw patterns for fixing sheeting

Fixing pattern for T/Dek roof

Overlap   Last Sheet

Fixing pattern for Corrugated roof

Overlap   Last Sheet

Fixing pattern for T/Dek walls

Overlap   Last Sheet

Fixing pattern for Corrugated walls
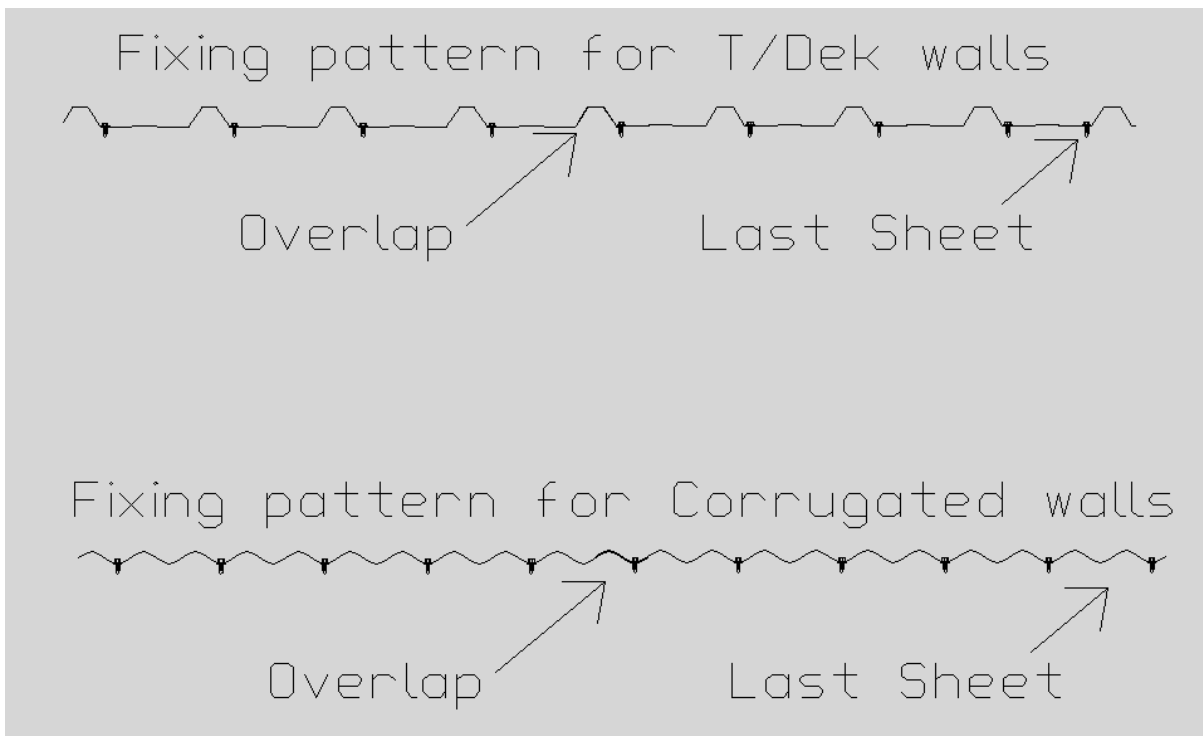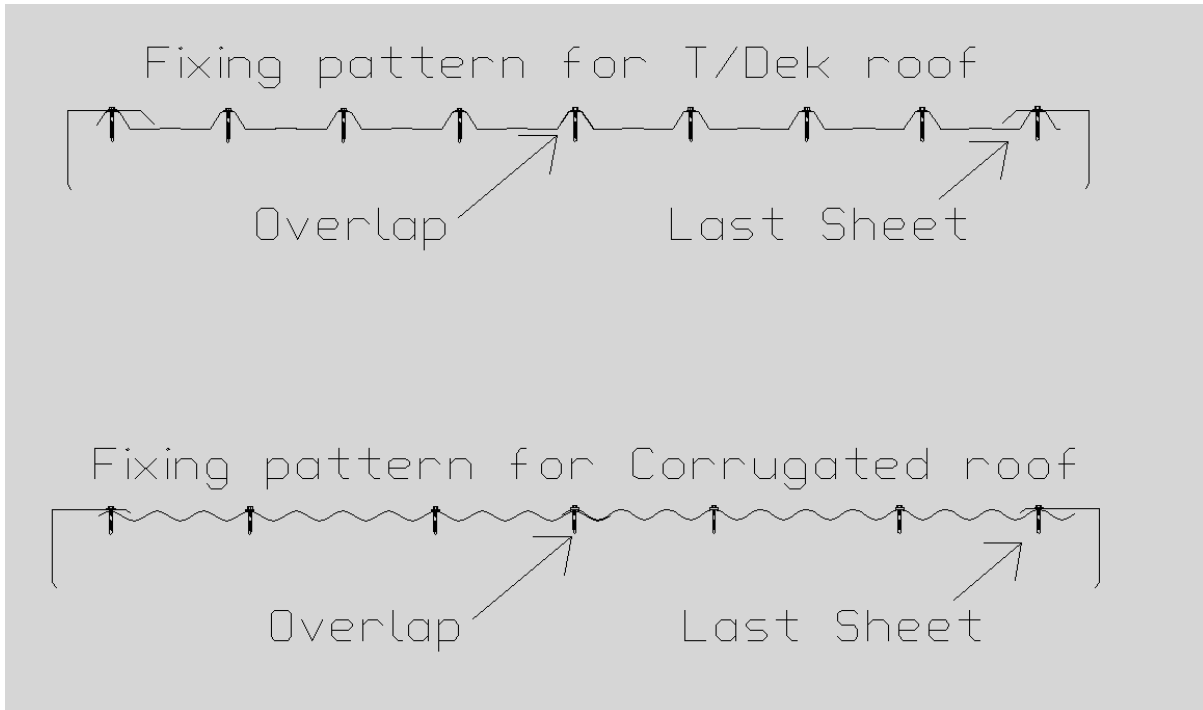
Overlap   Last Sheet

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3m wide x 3m deep x

(1.65, 2.65m & 3.1m) entry height

Step 4:

Items Needed

	1.65m High Structure				2.65m High Structure				3.1m High Structure	
2	Barge Flashing 3280mm	F1		2	Barge Flashing 3280mm	F1		2	Barge Flashing 3280mm	F1
2	Front Corner Flashing 1680mm	F2		2	Front Corner Flashing 2680mm	F2		2	Front Corner Flashing 3130mm	F2
2	Back Corner Flashing 1335mm	F3		2	Back Corner Flashing 2335mm	F3		2	Back Corner Flashing 2785mm	F3
10	Roof Teks	TS2		10	Roof Teks	TS2		10	Roof Teks	TS2
16	Wall Teks	TS1		24	Wall Teks	TS1		32	Wall Teks	TS1

Install corner flashings first and then Barge flashings.

For a better finish, align screws (TS1) with all top, middle & bottom rows of screws through sheeting for both Front & Back Flashings.

For the Barge Flashing (F1). Install as per diagrams on page 19. Also align these with rows of roof screws. Using Roof Teks secure the side of the barge flashings. 1 screw per overlap of sheet approx. 30mm up from the bottom of the flashing making sure to catch the truss angle fitted on page 7.
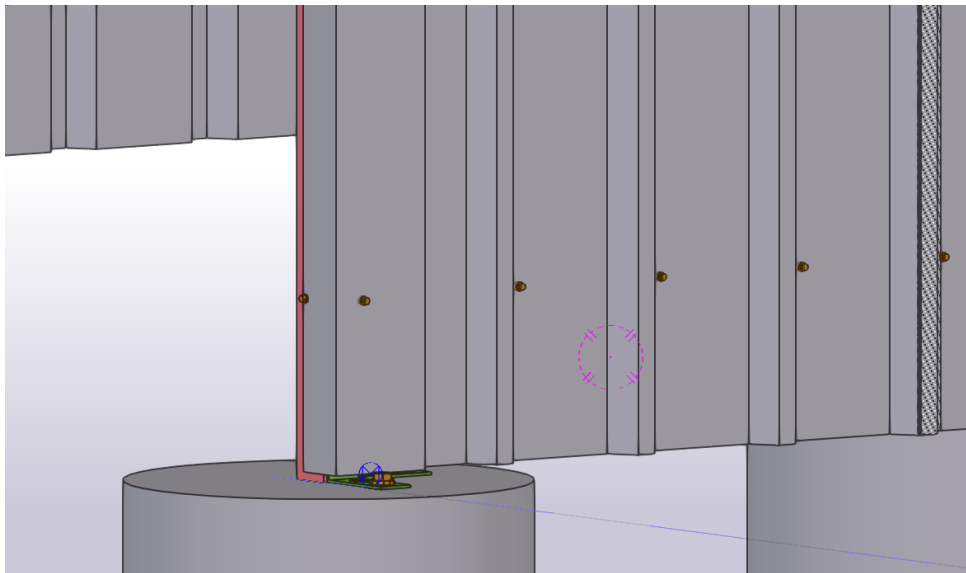
Once completed, insert plastic caps provided to protect any exposed threaded holes.

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