GENERAL NOTES

These documents show the general arrangement of the building and include some items not supplied (refer to the quotation for nomination of all items to be provided). All items not nominated therein shall be supplied and installed by others.

The plans provided here are the latest at the time of print. Earlier plans provided may have become outdated due to engineering changes and should not be used. The plans and drawings are extensive and give all the information needed for a competent person to erect the building. The building is not designed to stand up by itself when it is partially complete. Consequently, construction bracing is critical during erection.

The owner has been requested to check off the BOM after the building delivery. You should check that you are able to locate all materials nominated in the BOM. You should also confirm that the length and size (including thickness), nominated in the BOM is what has been provided. Any missing items are the responsibility of the client once correct delivery has been confirmed as per Terms and Conditions of Sale.

DESIGN CRITERIA

These building plans have been prepared to comply with the standards nominated in the engineer's letter. All plans are not to Scale.

ADDITIONAL DOCUMENTATION TO BE SUPPLIED BY PURCHASER/OWNER

The Purchaser/Owner is responsible for:

- *Provision of Soils Report for the site and in the building area on which the building is to be erected
- *Site Plan and Drainage Plans
- *Any other plans not covered by these engineering plans requested by the local Council or the authority

RAINWATER AND DRAINAGE

All Rainwater and drainage designs are the responsibility of the purchaser/owner. Residential gutters and downpipes where supplied are based on average rainfall for the state and may not be sufficient for your building size or usage. Please speak to your building designer or contractor to ensure gutters are fit for purpose.

BUILDING CONSTRUCTION REQUIREMENTS

The Builder and Purchaser are to ensure that all construction is carried out in accordance with the Plans, the Construction Manual and the Bill of Materials (BOM).

It is the responsibility of the builder to ensure that they are familiar with the operational risks and their obligations in carrying out construction work.

The builder must ensure that they have an appropriate Health & Safety Plan (The Plan) compliant with and as required by their local, state and federal regulations. The Plan will need to take into account the site conditions, the size of the building and the experience of the construction personnel. The Plan will, most likely, differ for each project.

The builder must ensure that The Plan is adhered to. Particular attention should be paid to the requirements to ensure that any person working at heights are properly trained and following the requirements as set out by The

It is recommended that you check with the appropriate authority in your area as to your responsibilities.

TEMPORARY SUPPORT, LIFTING AND SHORING

The design of temporary propping shoring, lifting and support during construction has not been undertaken and is not included in our engagement. This work is the responsibility of the Contractor undertaking the construction of the building.

SLAB DETAILS - GENERAL

Piers

- * The minimum size of Piers under the columns and End Wall Mullions are nominated on the Material Specifications Plan. When the slab and piers are poured as one pour, the depth of the pier is to the top of the slab.
- * Pier Reinforcement: for any piers over 1100mm, deformed bar to within 100mm of base and minimum 75mm top cover. Minimum side cover 75mm, maximum 100mm. Rod to be caged horizontally at least twice and at a maximum of 300mm spacing. Tie with a minimum of 6mm diameter cage tie. Where pier diameter is less than 450mm diameter, use 4 N12. For diameters equal to and over 450mm, use 4 N16.

Concrete Slab

- * Footings and slabs, including internal and edge beams, must be founded on natural soil with a minimum allowable bearing pressure of 100kPa. Design covers soil classifications of A, S, M, H1 or H2 for a class 10a building.
- * The footing designs have been calculated with adhesion values of 0kPa, 25kPa and 50kPa for clay soils and dense sand soils only.
- * A site specific geotechnical investigation has not been performed. The builder will need to verify the soil type and conditions.
- * Site conditions different to those specified require a modified design.
- * Sub grade shall be excavated and compacted to a minimum of 100% standard dry density ratio and within 2% of the OMC to comply with AS2159.
- * Designs are in accordance with AS 3600:2018
- * All concrete to be in accordance with AS 3600:2018. Minimum 25 Mpa, with 80mm slump.
- * Concrete should be cured for 7 days before commencing construction of the building.
- * Refer to connection details.
- * Saw construction joints to be 25mm deep x 5mm wide. Saw cuttings shall take place no later than 24 hours after pouring. Saw construction joints to be placed at a maximum spacing of 6.3m (in both the length and the span). Care should be taken to avoid construction cuts intersecting where any fixing to the slab is to be made.
- * Where columns or end wall mullions have been removed, piers are not required.

- * End wall mullion spacing may move due to location of openings or doors. Check layout and component position plan, and relocate piers as required.
- * The Slab Plan indicates those parts of the slab which are 50mm below main slab/piers.

For Class A, S or M Sites

- * Slab thickness to be a minimum of 100mm with SL 72 mesh and 40mm top cover.
- * Concrete piers under Roller Doors Jambs to be a minimum size as below: MC25024 450mm dia x 650mm deep, centered to the C Section Where heavy traffic is to go through the roller doors, it is recommended that the slab edge should be thickened to 200mm deep by 300mm wide for the length between the mullions. Place an additional section of SL 72 mesh, 50mm from the base in all thickenings.

For Class H1 or H2 Sites

- * Slab thickness to be a minimum of 100mm with SL 82 mesh and 40mm top cover.
- * Perimeter beams 550mm deep x 300mm wide with Y12 3 bar Trench Mesh to the perimeter of the building.
- * Internal beams 550mm deep by 300mm wide with Y12 3 bar Trench Mesh at a max spacing of 4m.
- * Concrete piers under Roller Doors Jambs to be a minimum size as below: MC25024 450mm dia x 850mm deep, centered to the C Section

SHEETED PORTALS AND MULLIONS

All end wall mullions provide critical support to portal frames and cannot be repositioned or removed under any circumstances without engineering approval.

BRACING NOTES

- * Refer to Connection Details.
- * All Cross Bracing (End Walls, Roof) is achieved with 1.2 mm Strap G450.
- * Cross bracing is to be fixed taut and secured with 14.20 x 22 frame screws at each end, quantity as per connection details.
- * Fly bracing to be fixed to the purlins/girts on all mid portal rafters, columns and end wall mullions. Fly bracing is to be fitted to every second purlin/girt, or, on every one, where the spacing between fly braces would exceed the maximum specified below for the relevant column/rafter size:
 - C150 maximum 1800mm spacing
 - C200, C250 maximum 2200mm spacing
 - C300 maximum 2800mm spacing
 - C350 maximum 2800mm spacing
 - C400 maximum 2800mm spacing

Initial measurement is from the haunch of the column/rafter, and from the rafter for any end wall mullions.

* The first fly brace is to be placed at the purlin/girt closest to the haunch or top of the mullion.* Open bays to have fly bracing fitted to every available girt supporting the header sheets.

Revision	Date	Initial	Purchaser Name: Marie Talmash					
			urchaser Name. Mane Familiasii					
			Site Address: F2 Paultan Da Patanaan NOW 2424 Avatralia					
			Site Address: 53 Boulton Dr Paterson NSW 2421 Australia					
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			Drawing # SHUN250005 - 2	Print Date: 25/02/2025				

General Notes

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Name: JNS Robinson Pty Ltd

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Email: huntervalley@shedsnhomes.com.au

Apex Engineering Group PTY LTD
ACN 632 588 562
MIE Aust. (Registered NER Structural) 5276680
QLD: RPEQ No. 24223; TAS: 185770492; VIC: PE0003848; N.T: 303557ES;
Practising Professional Structural & Civil Engineers

ignature:

John Ronaldson

sto: 25/02/25

- * Where windows/GSD are placed in any bay where cross bracing is shown, then
- a) this can be replaced by moving the bracing to another bay OR
- b) due to the bracing provided by the window jambs, where space permits, bracing should be placed under and over the window.
- * All bracing strap ends to be located as close as practical to structural member's (columns, rafters, mullions) centerline.

BOLTS

- * Unless otherwise nominated, all bolts are grade 4.6
- * All tensioned bolts shall be tensioned using the part turn method (refer to AS4100). For the erector, full details are in the construction manual.

ROLLER DOORS

All Roller doors are NOT wind rated. All comments regarding roller doors are referenced from inside the building looking out.

OTHER MATERIALS NOTES

- * All Sheeting, Flashing and framing screws are Climaseal 3.
- * All purlin material has Z350 zinc coating with minimum strength of 450MPa.

Revision	Date	Initial	Purchaser Name: Marie Talmash			
			Purchaser Name. Marie Laimash			
			Site Address: 53 Roulton Dr Datorson NSW 2/21 Australia			
			Site Address: 53 Boulton Dr Paterson NSW 2421 Australia			
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			Drawing # SHUN250005 - 2	Print Date: 25/02/2025		

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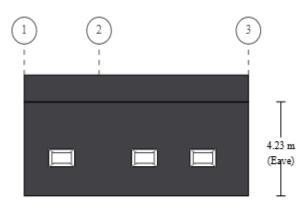
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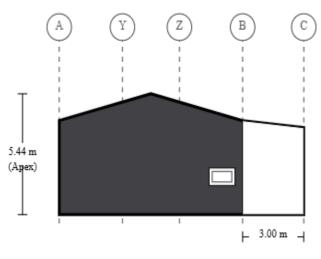
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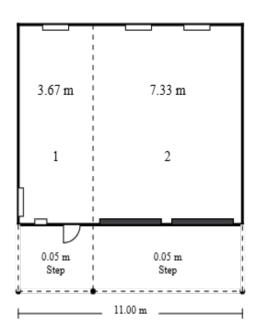
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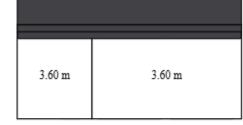
Left Side



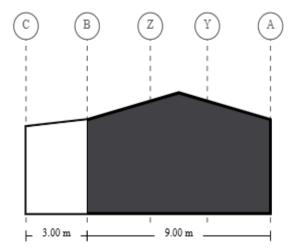
Left End



3.91 m (Leanto)



Right Side



Right End

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Lay out

Not to Scale

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MATERIAL SPECIFICATIONS

For further information regarding the tabulated values shown, refer to the General Notes

Building Dimensions

Categories	Span	Length	Pitch	Height	Grid(s)	Portal(s)
Main Building	9	11	15°	4.23	A - B	1 - 3
Right Leanto	3	11	6	3.915	B - C	1 - 3

Portal Frame Elements

Grid / Portal Number		1	2	3
Columns	Α	MC15015	MC25019	MC15024
	В	MC15015	MC25019	MC15024
	С	2MC15012	2MC15012	2MC15012
Rafters	A - Apex	MC15012	MC20019	MC15019
	Apex - B	MC15012	MC20019	MC15019
	B - C	MC15012	MC15012	MC15012
End Wall Mullions	Υ	MC20015	-	MC20015
	Z	MC20015	-	MC20015
Apex Braces	Apex	i	MC15015 @ 2.7	ī

Bay Section Elements

Bay Number		1	2
Bay Widths		3.67	7.33
Roof Purlins (refer to Purlin And Girt Plan)		Z150	Z150
Roof Purlin Bridging (Rows)	A - Apex	-	YES (1)
	Apex - B	-	YES (1)
	B - C	-	YES (1)
Roof Purlin Spacing (End)	A - Apex	1	1
	Apex - B	1.116	1.116
	B - C	0.935	0.935
Roof Purlin Spacing (Internal Spans)	A - Apex	1.231	1.231
	Apex - B	1.116	1.116
	B - C	0.935	0.935
Eave Purlin	А	C15012	C15019
	В	C15012	C15019
	С	2C15012	2C15012
Side Girts (refer to Purlin And Girt Plan)		Z150	Z150
Side Girt Bridging (Rows)	A	-	YES (1)
	В	-	-
	С	-	-
Side Girts Spacing (End)	A	1.333	1.333
	В	1.333	1.333
	С	1.7	1.7
Side Girts Spacing (Internal)	A	1.333	1.333
	В	1.333	1.333
	С	1.7	1.7
Roller Door Header	В	-	C10010
	С	-	-
Roller Door Jambs	В	-	MC25024
	С	-	-
PA Door Header	В	C10010	-
	С	-	-
PA Door Jambs	В	C10012	-
	С	-	-

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			Taronassi Name Talinasii				
			Site Address: 52 Boulton Dr. Batarson NSW 2421 Australia				
			Site Address: 53 Boulton Dr Paterson NSW 2421 Australia				
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			Drawing # SHUN250005 - 4	Print Date: 25/02/2025			

Material Specification Sheet

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lohn Ronaldson

Noto: 25/02/25

MATERIAL SPECIFICATIONS

For further information regarding the tabulated values shown, refer to the General Notes

End Bay Section Elements

End bdy Section Elements			
Grid / Portal Number		1	3
End Girts (refer to Purlin And Girt Plan)		Z100	Z100
End Girts Spacing (End)	A - Y	1.333	1.333
	Y - Z	1.333	1.333
	Z - B	1.333	1.333
	B - C	-	-
End Girts Spacing (Internal)	A - Y	1.333	1.333
	Y - Z	1.333	1.333
	Z - B	1.333	1.333
	B - C	-	-

Roller Door

Location - Side & Bay Number	RightSide 2	RightSide 2
Roller Door Size	3.6x3	3.6x3
Roller Door Header	C10010	C10010
Roller Door Jambs	MC25024	MC25024
Roller Door Clip Config	0 clip	0 clip
Roller Door Manufacturer	CENTURION	CENTURION

PA Door

Location - Side & Bay Number	RightSide 1
PA Door Header	C10010
PA Door Jambs	C10012
PA Door	2.040 x 0.820 - Larnec Shed Door - 3 Sided Frame - Single Skin - Pre-Hung - LH swing
PA Door Manufacturer	LARNEC

Cladding Elements

Colour	Product		
Monument	TRIMCLAD® 0.42 BMT		
COLORBOND® steel	BlueScope 0.55 BMT		
Monument	TRIMCLAD® 0.42 BMT		
COLORBOND® steel	BlueScope 0.55 BMT		
	Monument COLORBOND® steel Monument		

Pier Sizes

			Depth - with Slab					
Adhesion	Soil Description	Diameter	BP1	BP2	BP3	BP4	BP5	BP6
0.00e+00 kPa	Sandy Soil	0.3	0.45	0.45	-	0.45	1.1	0.45
		0.45	0.45	0.45	0.45	0.45	0.6	0.45
		0.6	0.45	0.45	0.45	0.45	0.45	0.45
25.00 kPa	Soft to Firm Clay	0.3	0.45	0.45	-	0.45	0.7	0.45
		0.45	0.45	0.45	0.45	0.45	0.6	0.45
		0.6	0.45	0.45	0.45	0.45	0.45	0.45
50.00 kPa	Stiff to Very Stiff Clay	0.3	0.45	0.45	-	0.45	0.6	0.45
		0.45	0.45	0.45	0.45	0.45	0.6	0.45
		0.6	0.45	0.45	0.45	0.45	0.45	0.45

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Material Specification Sheet

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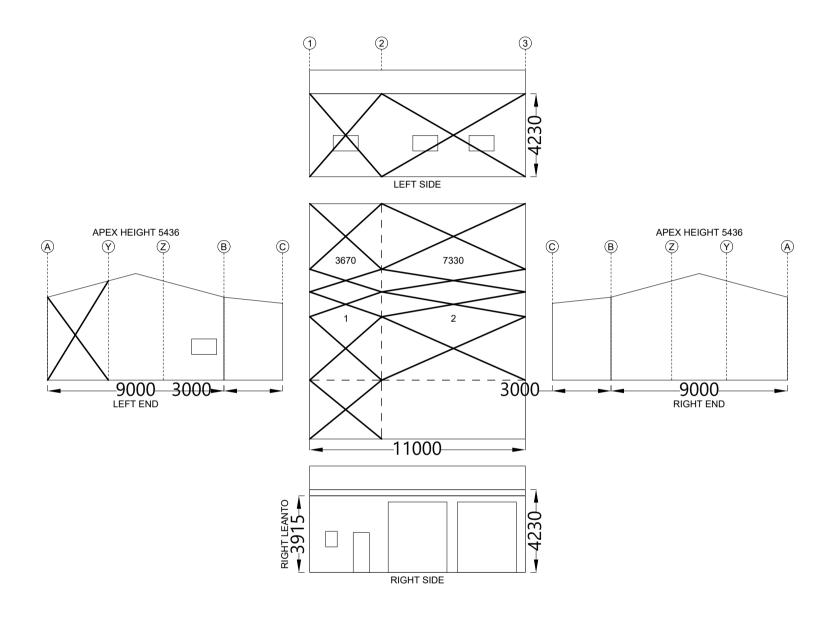
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Cross Bracing (Side Walls) is achieved with 6 mm Cable. Refer to Connection Details. Cross Bracing (End Walls, Roof) is achieved with 1.2 mm Strap. Refer to Connection Details. Cross bracing in the roof is to the purlin nearest to the end wall mullions, where applicable.



Revision	Date	Initial	Purchaser Name: Marie Talmash	
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Bracing

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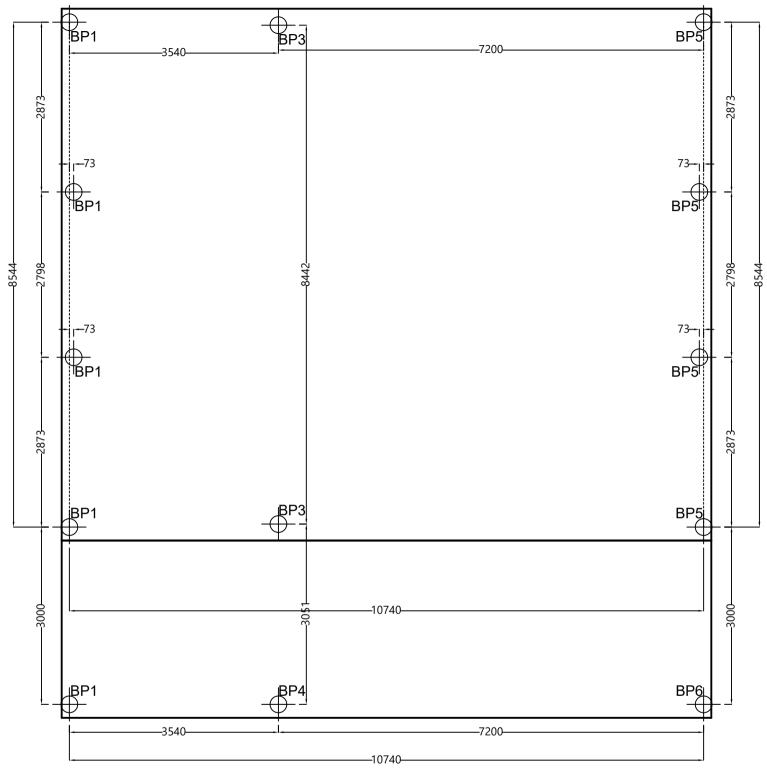
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These dimensions are provided as a guide only. It is the responsibility of the concreter to confirm that all dimensions are correct. Refer to Material Specification Sheet(s) for the Pier Sizes.

Refer to Slab Plan for concrete stepdowns.



Revision	Date	Initial	Purchaser Name: Marie Talmash Site Address: 53 Boulton Dr Paterson NSW 2421 Australia	
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Concrete Piers PIER MEASUREMENT ONLY NOT TO SCALE

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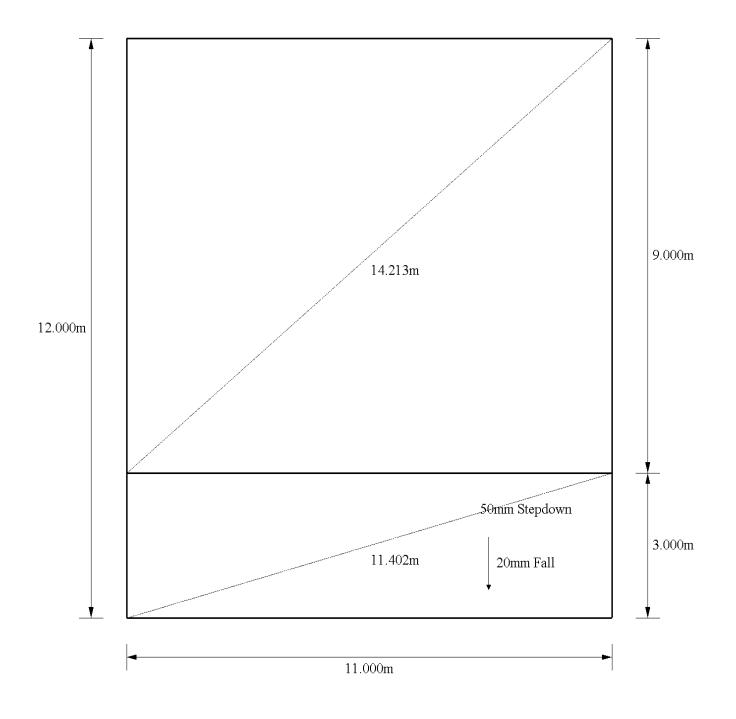
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These dimensions are provided as a guide only. It is the responsibility of the concreter to confirm that all dimensions are correct.



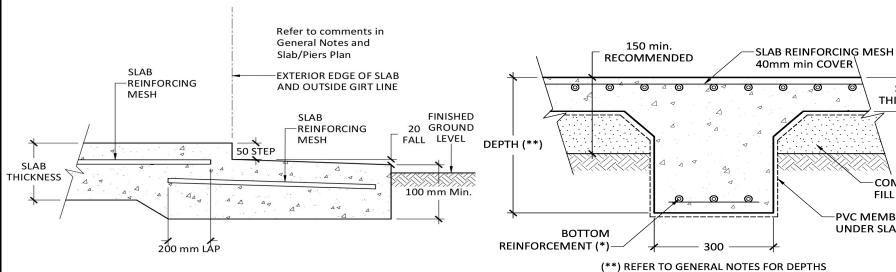
Purchaser Name: Marie Talmash				
Site Address: 53 Boulton Dr Paterson NSW 2421 Australia				
Drawing # SHUN250005 - 7	Print Date: 25/02/25			

Slab Dimensions
Also refer to Concrete Piers Plan
Not to Scale
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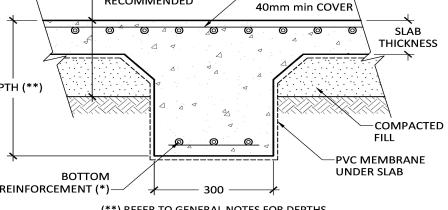
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CONCRETE SLAB with 50 mm STEP DOWN

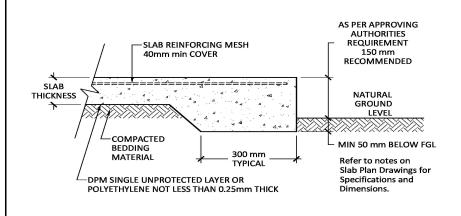


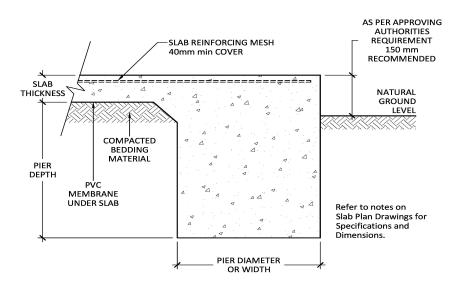
(*) REFER TO GENERAL NOTES FOR SPECIFICATION **INTERNAL BEAM** (H1 & H2 SOIL TYPE, OPTIONAL A, S & M)

SLAB REINFORCING MESH 40mm min COVER SLAB **THICKNESS** 150 RECOMMENDED **DEPTH (**)** COMPACTED FILL PVC MEMBRANE **BOTTOM** UNDER SLAB **REINFORCEMENT (*)-**– VARIES (*)

> (**) REFER TO GENERAL NOTES FOR DEPTHS (*) REFER TO GENERAL NOTES FOR SPECIFICATION

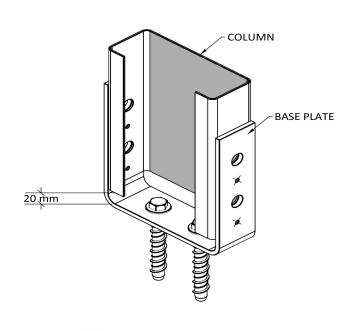
PERIMETER BEAM (H1 & H2 SOIL TYPE, OPTIONAL A, S & M)





SLAB DETAIL BETWEEN PIERS

SLAB AND PIER DETAIL



FIXING BOLTS - 2 of M12 x 100 SCREWBOLT FIXING BOLTS - 4 of M12 x 30 Galv. FIXING SCREWS - 4 of 12.24 x 38 Series 500

C150 COLUMN FIXING (BF)

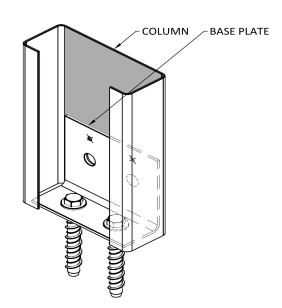
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Connection Details

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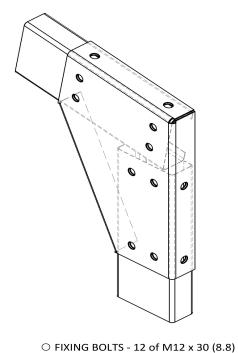


FIXING BOLTS - 2 of M12 x 100 SCREWBOLTS

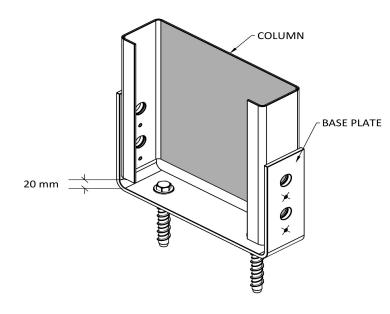
FIXING BOLTS - 2 of M12 x 30 Galv.

FIXING SCREWS - 2 of 14.20 x 22

C200 MULLION BASE PLATE (B)

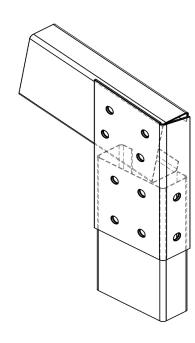


KNEE HAUNCH BRACKET (HS&HT) - C150, 6°



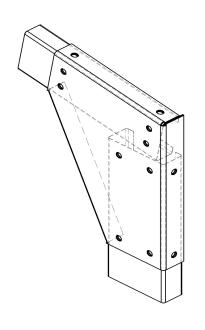
FIXING BOLTS - 2 of M16 x 150 SCREWBOLTS
FIXING BOLTS - 4 of M16 x 40 (8.8)

- × FIXING SCREWS 4 of 12.24 x 38 Series 500
 - C250 COLUMN FIXING (BF)



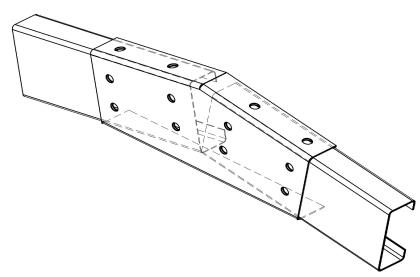
○ FIXING BOLTS - 10 of M12 x 30 (8.8)

FLAT PLATE HAUNCH BRACKET (X&Y) - C150, 15°



○ FIXING BOLTS - 12 of M16 x 30 (8.8)

KNEE HAUNCH BRACKET (HS&HT) - C250-C200, 15°



O FIXING BOLTS - 12 of M12 x 30 (8.8)

APEX PLATE (A) - C150, 15°

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Site Address: 53 Boulton Dr Paterson NSW 2421 Australia

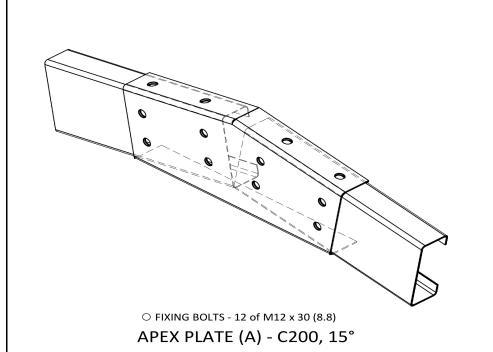
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QLD: RPEQ No. 24223; TAS: 185770492; VIC: PE0003848; N.T: 303557ES;
Practising Professional Structural & Civil Engineers

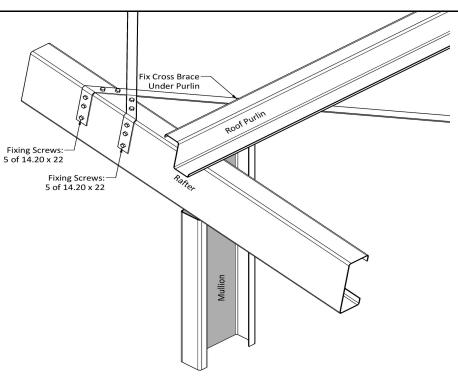




O FIXING BOLTS - 2 of M12 x 30 (8.8)

X FIXING SCREWS - 4 of 14.20 x 22

APEX BRACE FOR SINGLE RAFTER - C200-C150



BRACING CONNECTION

Eave Purlin Bracket

Column

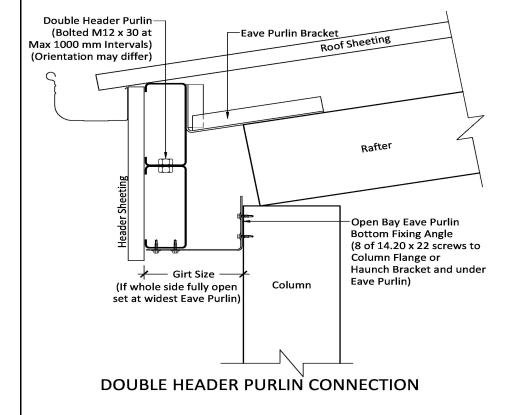
Refer to Haunch Bracket
Connection Details
Brackets type may differ

* P/G - Z100 - TH120 - Z150

 FIXING BOLTS - 1 of M12 x 30

 FIXING SCREWS - 12 of 14.20 x 22

EAVE PURLIN BRACKET TO RAFTER



Connection Details

Not to Scale
Page 3 of 9
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Seller: Sheds n Homes Hunter Valley JNS Robinson Pty Ltd Phone: (02) 4987 5390 Fax Email: huntervalley@shedsnhomes.com.au Apex Engineering Group PTYLTD
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ME Aust. (Registered NER Structural) 5276680
QLD: RPEQ No. 24223; TAS: 185770492; VIC: PE0003848; N.T: 303557ES;
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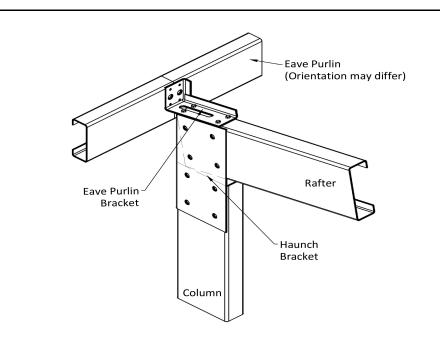
Date: John Ronaldson
Date: 25/02/25

Purchaser Name: Marie Talmash

Site Address: 53 Boulton Dr Paterson NSW 2421 Australia

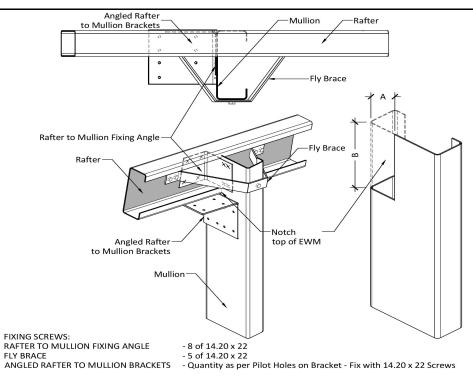
Drawing # SHUN250005 - 8

Print Date: 25/02/25

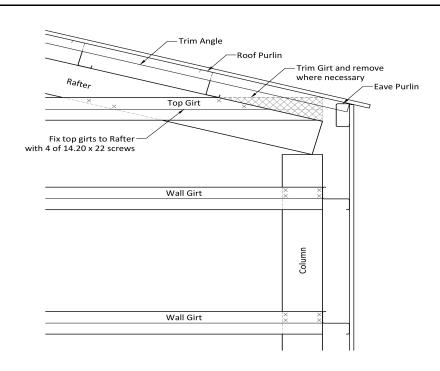


imes FIXING SCREWS - 4 of 14.20 x 22

EAVE PURLIN BRACKET TO RAFTER

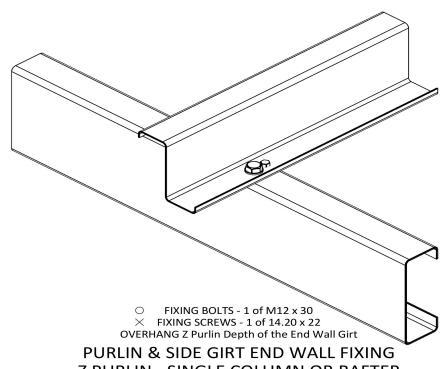


END WALL MULLION TO RAFTER

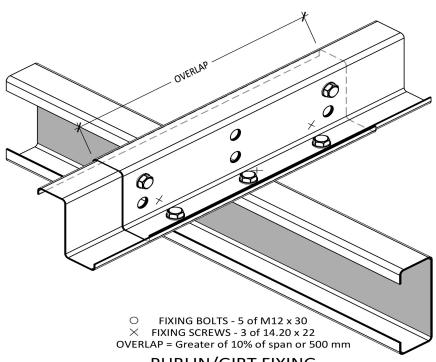


GABLE END TOP GIRT FIXING - Z





Z PURLIN - SINGLE COLUMN OR RAFTER



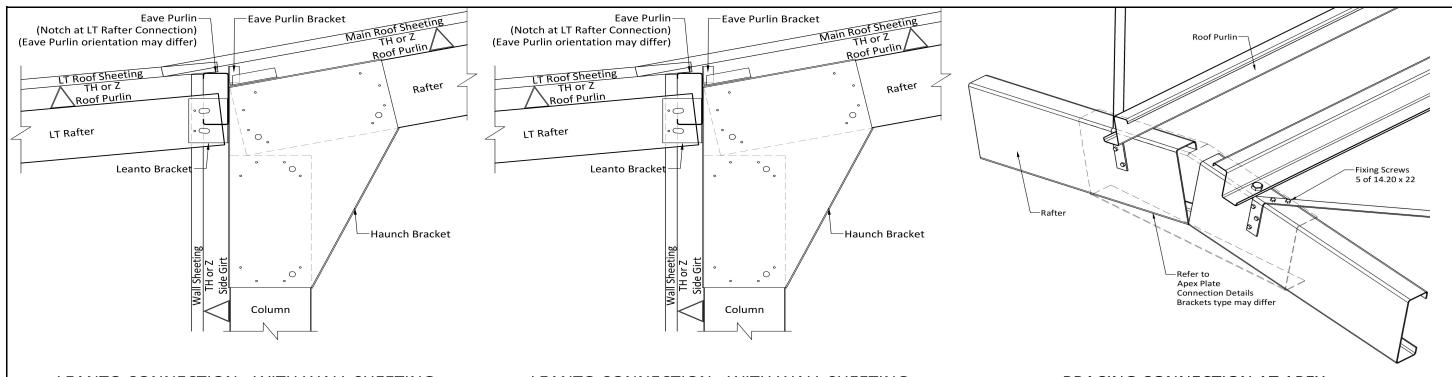
PURLIN/GIRT FIXING SINGLE C SECTION COLUMNS OR RAFTERS

Purchaser Name: Marie Talmash Site Address: 53 Boulton Dr Paterson NSW 2421 Australia Drawing # SHUN250005 - 8 Print Date: 25/02/25

Connection Details

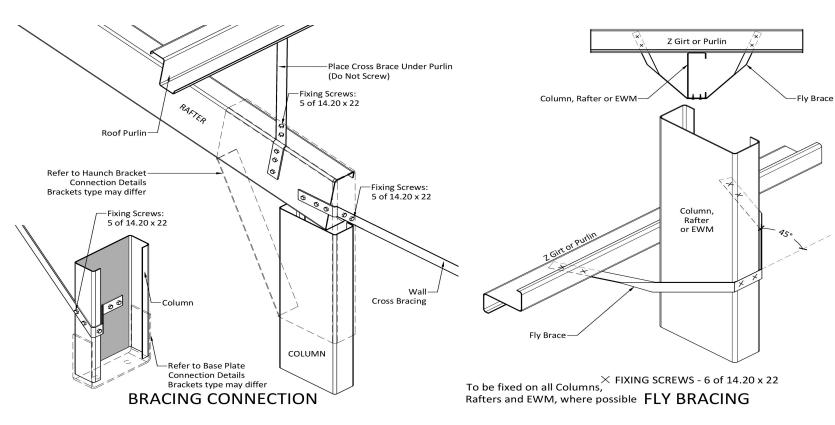
Not to Scale Page 4 of 9 © Copyright Steelx IP Pty Ltd Seller: Sheds n Homes Hunter Valley JNS Robinson Pty Ltd Phone: (02) 4987 5390 Email: huntervalley@shedsnhomes.com.au Apex Engineering Group PTY LTD ACN 632 588 562 ME Aust. (Registered NER Structural) 5276680 QLD : RPEQ No. 24223; TAS : 185770492; VIC : PE0003848; N.T : 303557ES; Practising Professional Structural & Civil Engineers



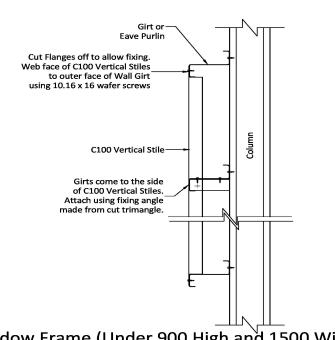


LEANTO CONNECTION - WITH WALL SHEETING

LEANTO CONNECTION - WITH WALL SHEETING







Window Frame (Under 900 High and 1500 Wide) Note: Top of Window 2100 above GL. Window frame fixed to vertical stiles only

Purchaser Name: Marie Talmash Site Address: 53 Boulton Dr Paterson NSW 2421 Australia Drawing # SHUN250005 - 8 Print Date: 25/02/25

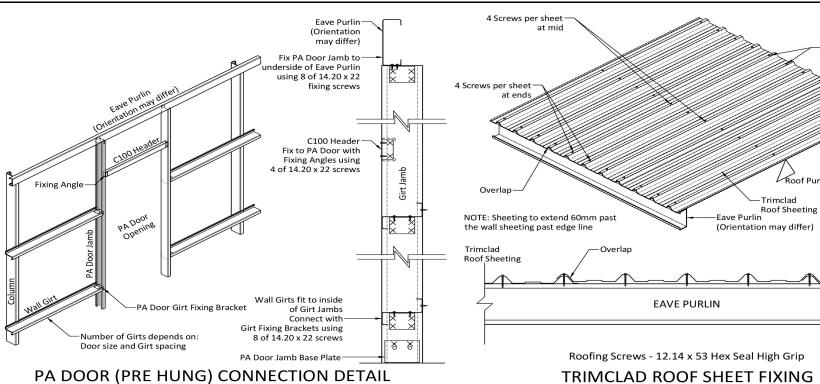
Connection Details

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Signature:

Date: John Ronaldson Date: 25/02/25

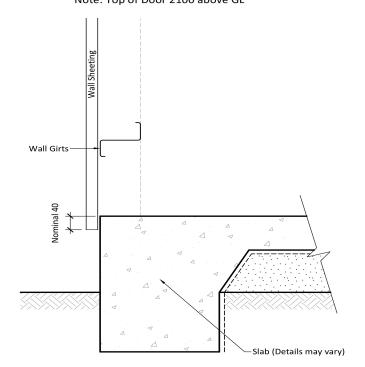


-4 Screws per sheet at Eave 4 Screws per sheet Eave Purlin at ends Wall Sheeting Overlap-Trimclad Trimclad Overlap Roof Sheeting Wall Sheeting GIRT

Wall Screws - 10.16 x 16 Hex

WALL SHEETING CONNECTION DETAILS

PA DOOR (PRE HUNG) CONNECTION DETAIL Note: Top of Door 2100 above GL



WALL SHEET OVERHANG DETAIL

Purchaser Name: Marie Talmash Site Address: 53 Boulton Dr Paterson NSW 2421 Australia Drawing # SHUN250005 - 8 Print Date: 25/02/25

Connection Details

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Seller: Sheds n Homes Hunter Valley JNS Robinson Pty Ltd Phone: (02) 4987 5390 Email: huntervalley@shedsnhomes.com.au 4 Screws per sheet

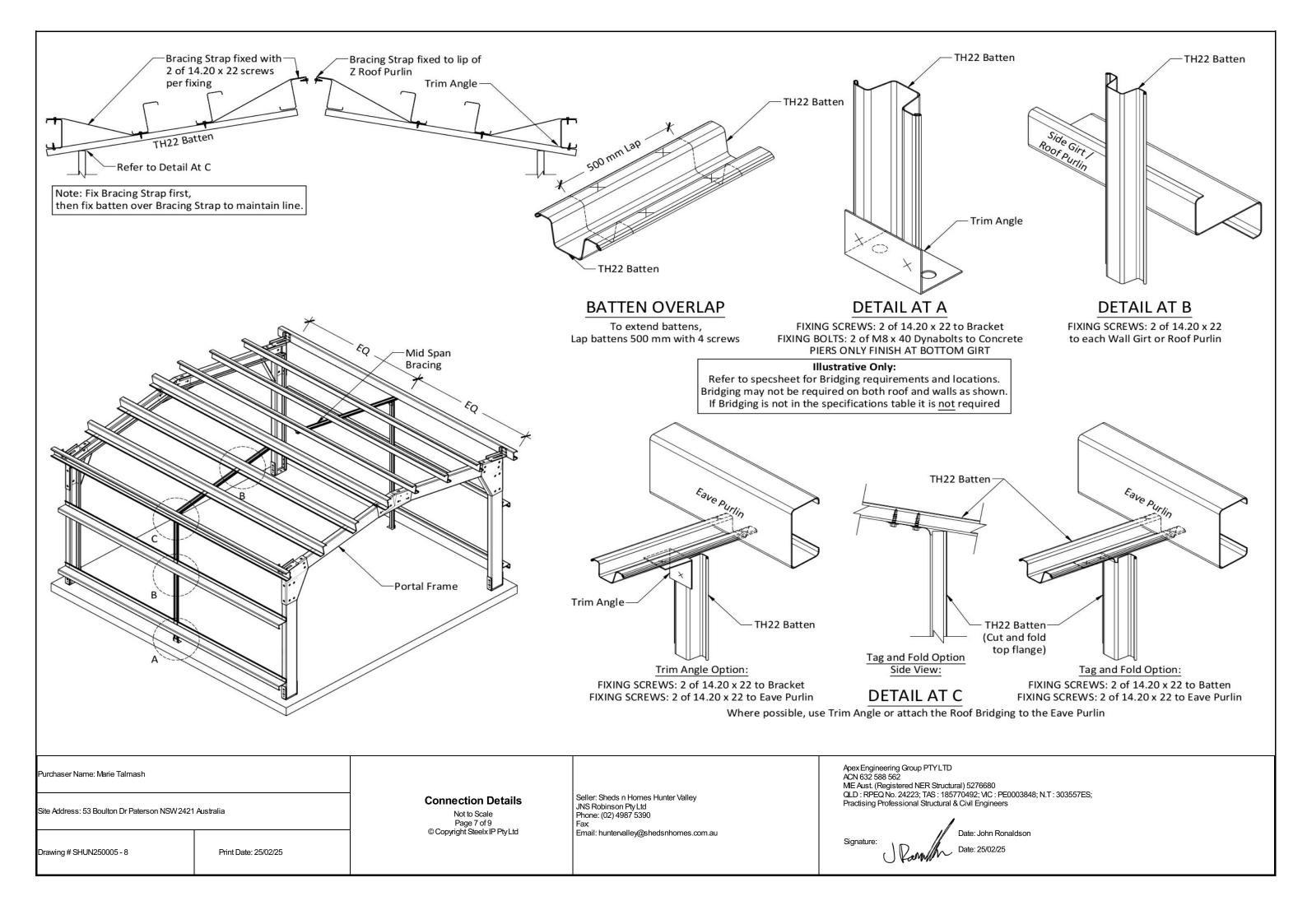
Trimclad

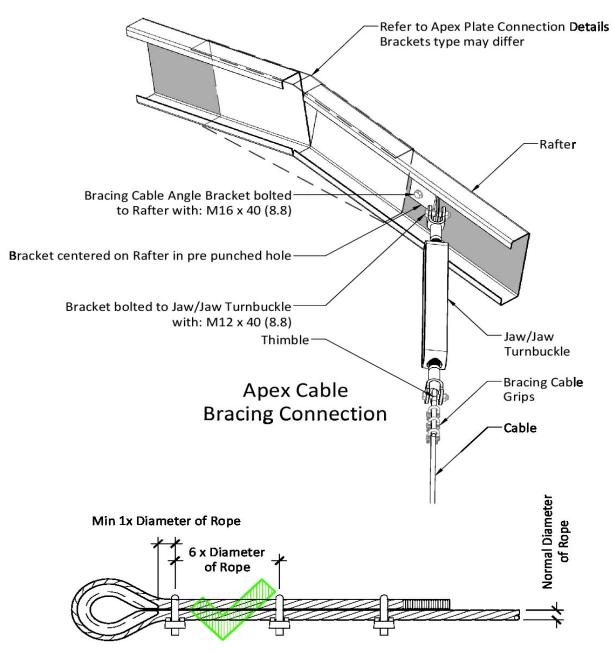
Roof Sheeting

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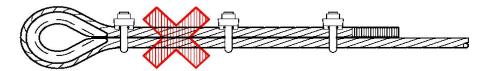
Signature:

Date: John Ronaldson Date: 25/02/25

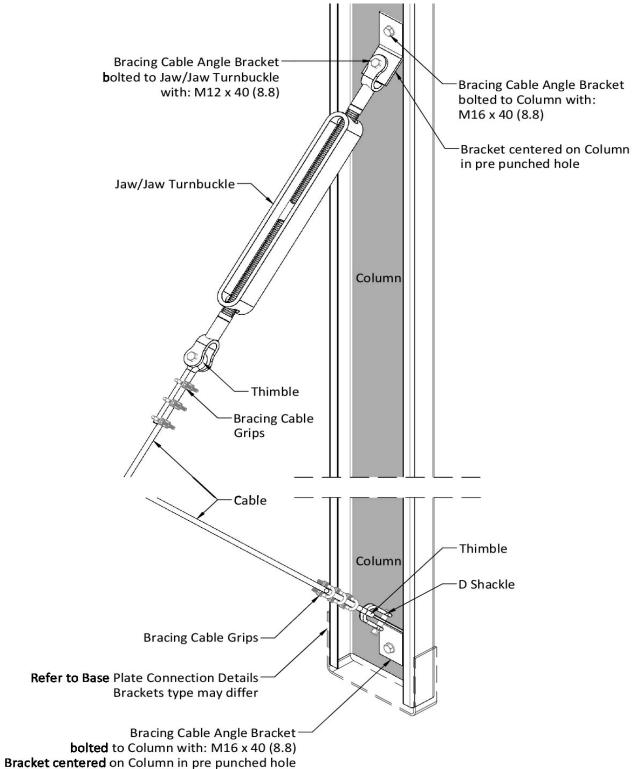




Correct Method of fitting Wire Rope Grips (Nuts down)



Incorrect Method of fitting Wire Rope Grips (Nuts up)



Top and Base of Column Cable Bracing Connection

Purchaser Name: Marie Talmash

Site Address: 53 Boulton Dr Paterson NSW 2421 Australia

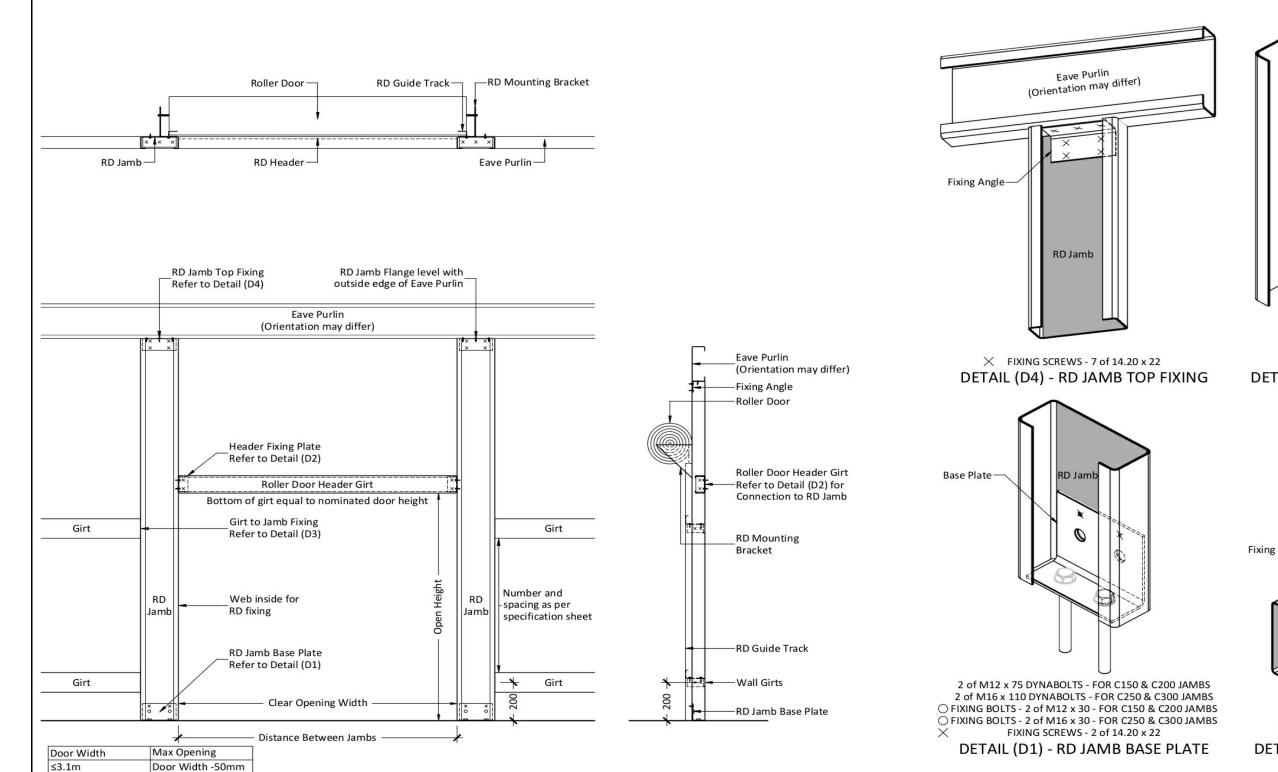
Drawing # SHUN250005 - 8

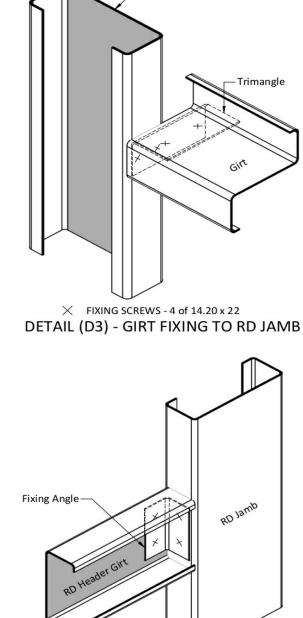
Print Date: 25/02/25

Connection Details

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-RD Jamb

imes FIXING SCREWS - 4 of 14.20 x 22 DETAIL (D2) - RD HEADER GIRT FIXING

Purchaser Name: Marie Talmash

Site Address: 53 Boulton Dr Paterson NSW 2421 Australia

Drawing # SHUN250005 - 8

Print Date: 25/02/25

Door Width -100mm

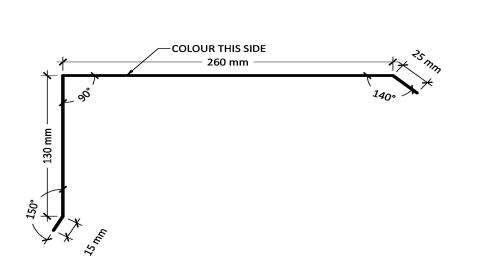
>3.1m or ≤5.1m

Connection Details

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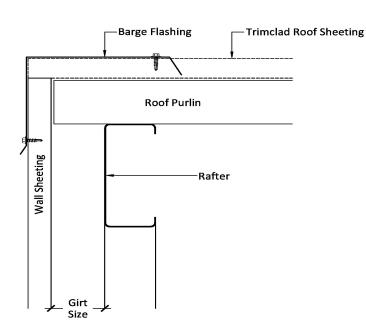
Seller: Sheds n Homes Hunter Valley JNS Robinson Pty Ltd Phone: (02) 4987 5390 Fax Email: huntervalley@shedsnhomes.com.au Apex Engineering Group PTY LTD
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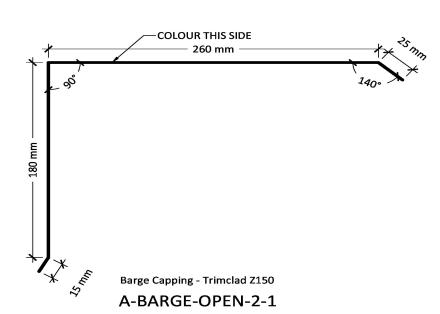


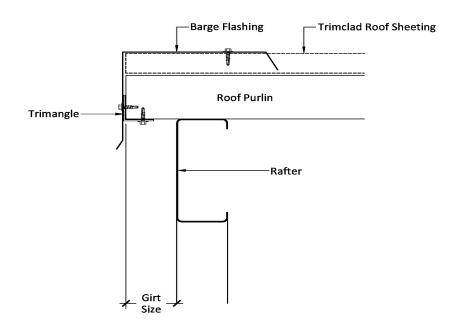
Barge Capping - Trimclad TH64/Z100

A-BARGE-2

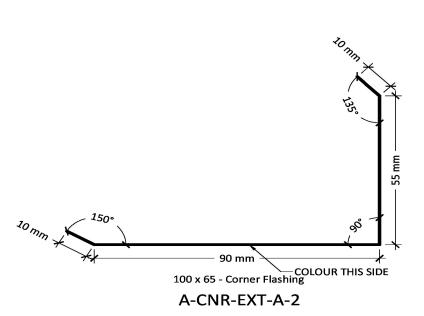


Barge Flashing - A-BARGE-2 - Sheeting Gable

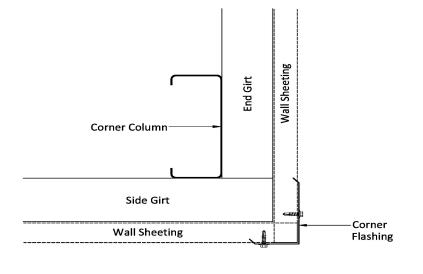




Barge Flashing - A-BARGE-OPEN-2-1 - Open Gable



Corner Flashing - A-CNR-EXT-A-2



Purchaser Name: Marie Talmash		Flashing Fixing Details Not to Scale Page 1 of 3		Apex Engineering Group PTYLTD ACN 632 588 562 ME Aust. (Registered NER Structural) 5276680 QLD : RPEQ No. 24223; TAS : 185770492; VIC : PE0003848; N.T : 303557ES; Practising Professional Structural & Civil Engineers
Site Address: 53 Boulton Dr Paterson NSW 2421 Australia			Seller: Sheds n Homes Hunter Valley JNS Robinson Pty Ltd Phone: (02) 4987 5390 Fax	
Drawing # SHUN250005 - 9	Print Date: 25/02/25	© Copyright Steelx IP Pty Ltd	Email: huntervalley@shedsnhomes.com.au	Signature: Date: John Ronaldson Date: 25/02/25