

Purchaser Name: Stuart Smith

Site Address: 5 Mnmai Road Mbona Vale NSW 2103 Australia

Drawing # SNOW200005 - 0

Print Date: 28/02/20

Layout
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 Not to Scale
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Seller: Sheds n Homes Nowra
 Tycal Developments Pty Ltd
 Phone: (02) 4422 5033
 Fax:
 Email: nowra@shedsnhomes.com.au

TNC ENGINEERING PTY LTD
 ACN: 610 855 260
 ME Aust. (Registered NER Structural & Civil) 2741240
 QLD : RPEQ No. 13750; VIC : EC44684; TAS : CC6968; N.T : 225521ES;
 Practising Professional Structural & Civil Engineers

Signature:  R. Nancarrow
 Date: 28/02/20

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.

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.

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 Earlier plans provided may have become outdated due to engineering changes and should not be used.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.

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/Drainage Plans
 - *Any other plans not covered by these engineering plans requested by the local Council or the authority

BUILDING CONSTRUCTION REQUIREMENTS

The Purchaser/Owner is to be ensured that all building construction is carried out in accordance with the Plans, the Construction Manual and the Bill of Materials (BOM).

SLAB DETAILS - GENERAL

- * **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 bottom 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 capacity of 100kPa. Design covers soil classifications of A, S, M, H1 or H2 for a class 10 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 3600:2009
- * All concrete to be in accordance with AS 3600:2009. 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 Door Jambs to be a minimum size as below:
C15015 - 300mm dia x 375mm deep, centered to the C Section
Where heavy traffic is to go through the roller door, 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.

- * Edge beam 400mm deep x 300mm wide with Y12 3 bar Trench Mesh to the perimeter of the building.
- * Thickening beams 400mm deep by 300mm wide with Y12 3 bar Trench Mesh at a max spacing of 6.2m.
- * Concrete piers under Roller Door Jambs to be a minimum size as below:
C15015 - 300mm dia x 500mm deep, centered to the C Section

BRACING NOTES

- * Refer to Connection Details.
- * All Cross Bracing is achieved with 1.2mm 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.
- * All bracing strap ends to be located as close as practical to structural member's

(columns, rafters, mullions) centerline.

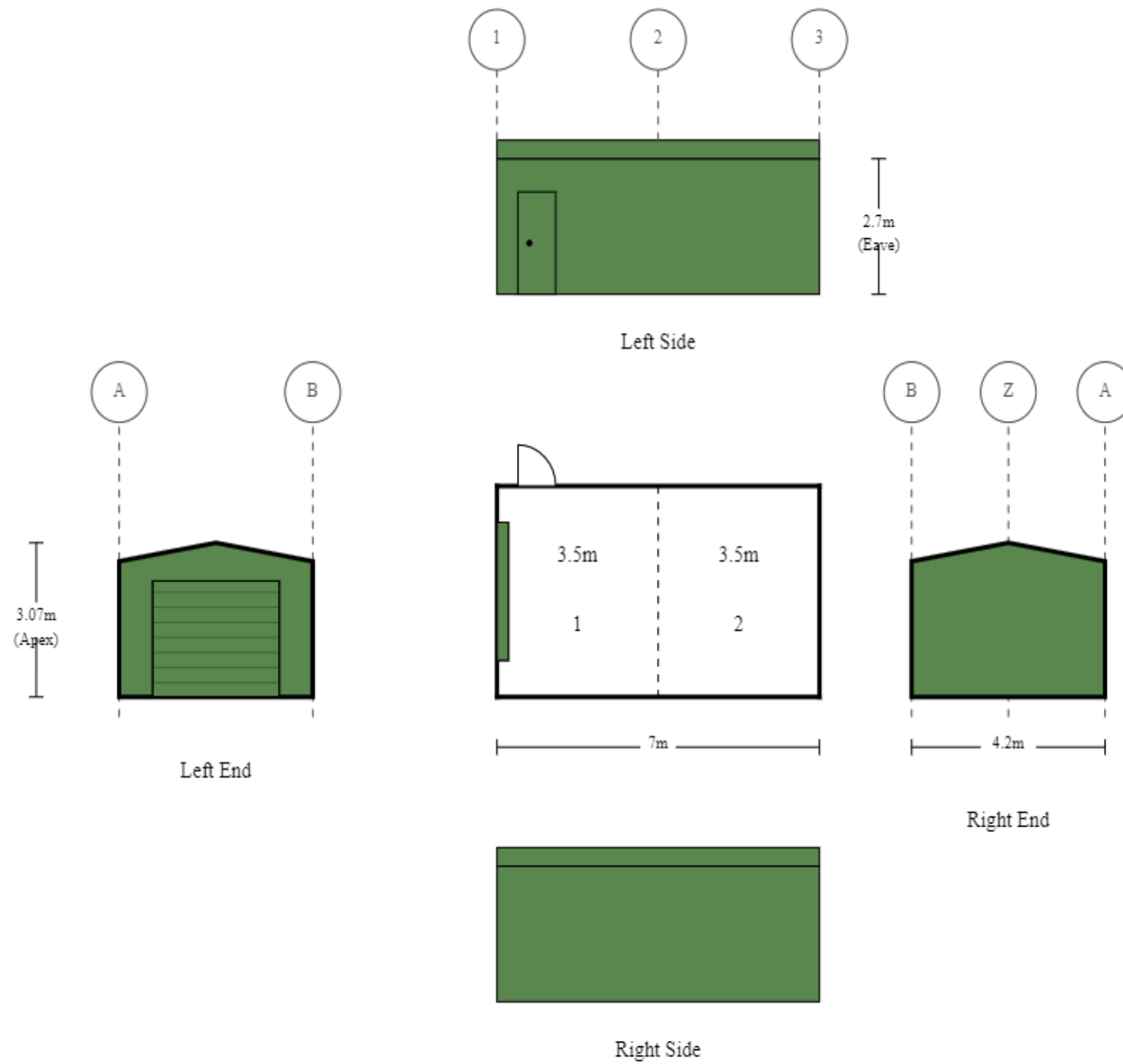
BOLTS

- * 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.

OTHER MATERIALS NOTES

- * All Sheeting, Flashing and framing screws are Climaseal 4.
- * All purlin material has Z350 zinc coating with minimum strength of 450MPa.

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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	4.2	7	10	2.7	A - B	1 - 3

Portal Frame Elements				
Grid / Portal Number		1	2	3
Columns	A	C15012	C15012	C15012
	B	C15012	C15012	C15012
Rafters	A - Apex	C15012	C15012	C15012
	Apex - B	C15012	C15012	C15012
End Wall Mullions	Z	-	-	C15012

Bay Section Elements				
Grid / Bay Number		1	2	Maximum
Bay Widths		3.5	3.5	
Roof Purlins	A - Apex	TH64075	TH64075	
	Apex - B	TH64075	TH64075	
Roof Purlin Spacing (End)	A - Apex	0.694	0.694	0.900
	Apex - B	0.694	0.694	0.900
Roof Purlin Spacing (Internal Spans)	A - Apex	0.694	0.694	1.200
	Apex - B	0.694	0.694	1.200
Eave Purlin	A	C10010	C10010	
	B	C10010	C10010	
Side Girts	A	TH64075	TH64075	
	B	TH64075	TH64075	
Side Girts Spacing (End)	A	1.235	1.235	1.250
	B	1.235	1.235	1.250
Side Girts Spacing (Internal)	A	1.235	1.235	1.500
	B	1.235	1.235	1.500
PA Door Header	A	C10010	-	
	B	-	-	
PA Door Jamb	A	DJ64/3000	-	
	B	-	-	

End Bay Section Elements				
Grid / Portal Number		1	3	Maximum
End Girts	A - B	TH64075	-	
	A - Z	-	TH64075	
	Z - B	-	TH64075	
End Girts Spacing (End)	A - B	1.235	-	1.250
	A - Z	-	1.235	1.250
	Z - B	-	1.235	1.250
End Girts Spacing (Internal)	A - B	1.235	-	1.500
	A - Z	-	1.235	1.500
	Z - B	-	1.235	1.500
Roller Door Header	A - B	HEADER1	-	
	A - Z	-	-	
	Z - B	-	-	
Roller Door Jamb	A - B	C15015	-	
	A - Z	-	-	
	Z - B	-	-	

Cladding Elements		
Category	Colour	Product
Roof Sheeting	COLORBOND® steel	CORODEK® 0.42 BMT (0.47TCT)
Roof Flashings	COLORBOND® steel	BlueScope 0.55 BMT
Wall Sheeting	COLORBOND® steel	METROCLAD® 850 - 0.35 BMT (0.40TCT)
Wall Flashing	COLORBOND® steel	BlueScope 0.55 BMT

Pier Sizes			
			Depth - with Slab
Adhesion (kPa)	Soil Description	Diameter (mm)	
			BP1 (mm)BP2 (mm)

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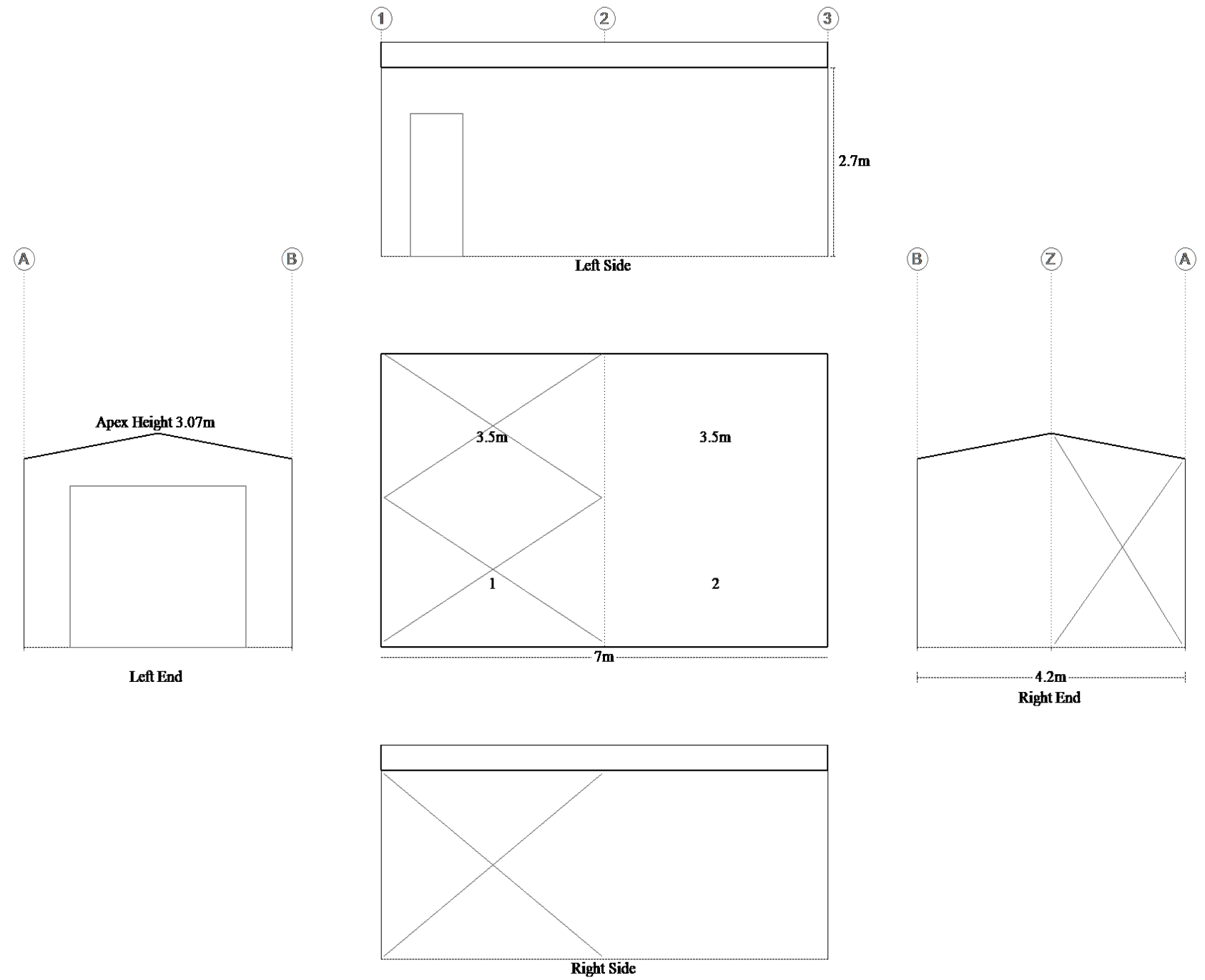
MATERIAL SPECIFICATIONS

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

Pier Sizes			Depth - with Slab	
Adhesion (kPa)	Soil Description	Diameter (mm)	BP1 (mm)	BP2 (mm)
0	Sandy Soil	300	450	450
		450	450	450
		600	450	450
25	Soft to Firm Clay	300	450	450
		450	450	450
		600	450	450
50	Stiff to Very Stiff Clay	300	450	450
		450	450	450
		600	450	450

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Cross Bracing is achieved with 1.2mm Strap. Refer to Connection Details.



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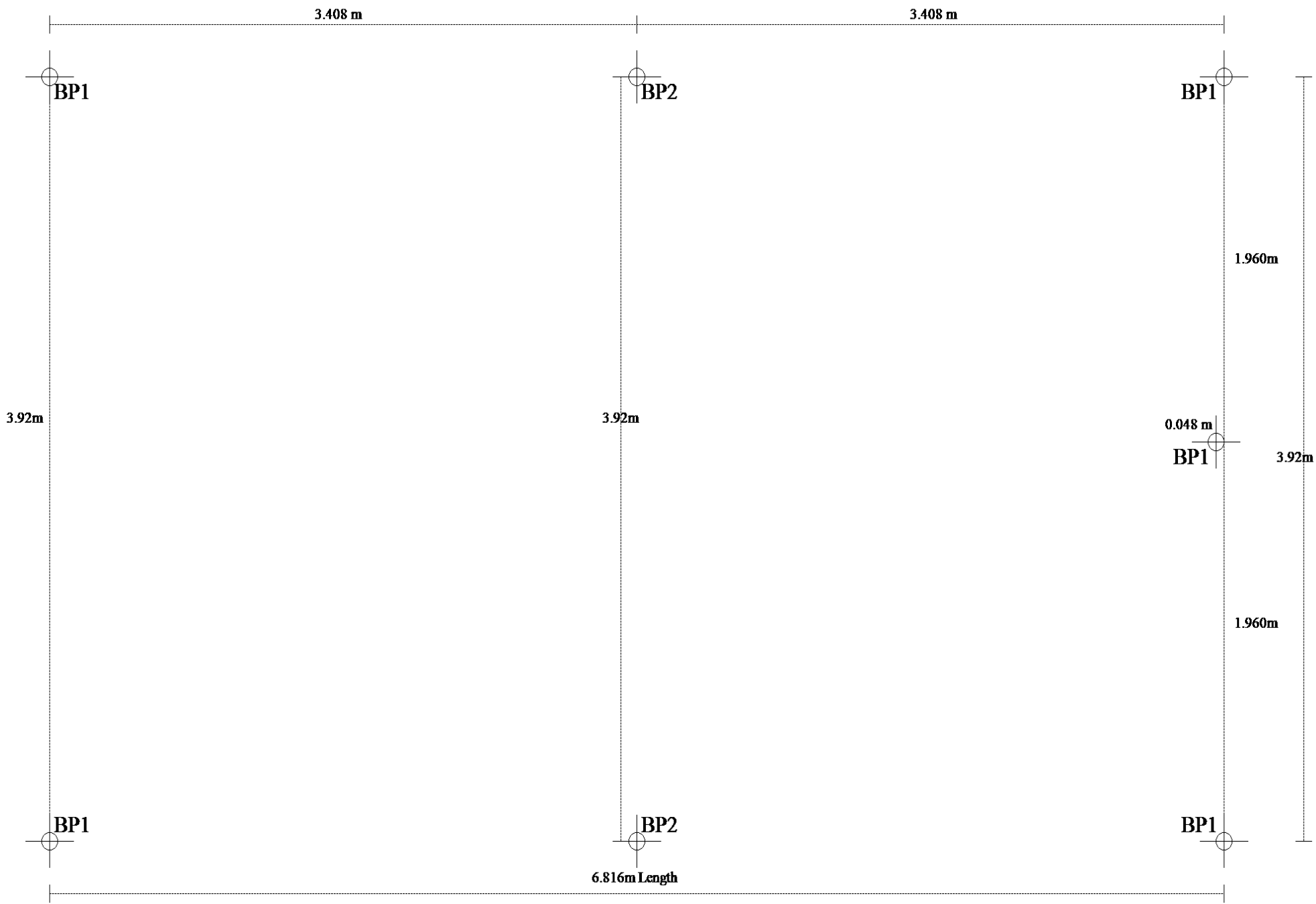
Bracing
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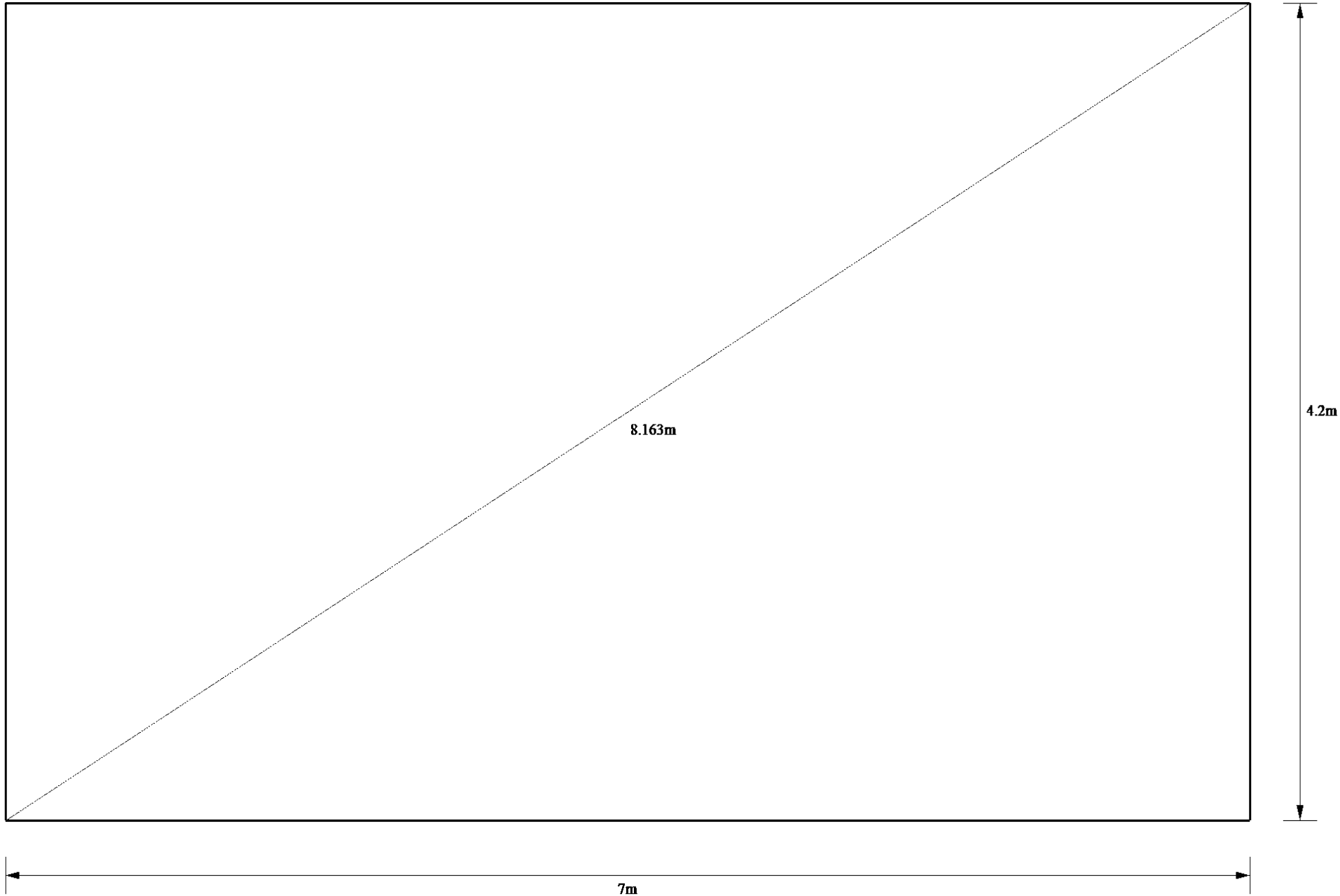
Signature:  R. Nancarrow
Date: 22/01/20

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 Specifications Plan for BP dimensions.

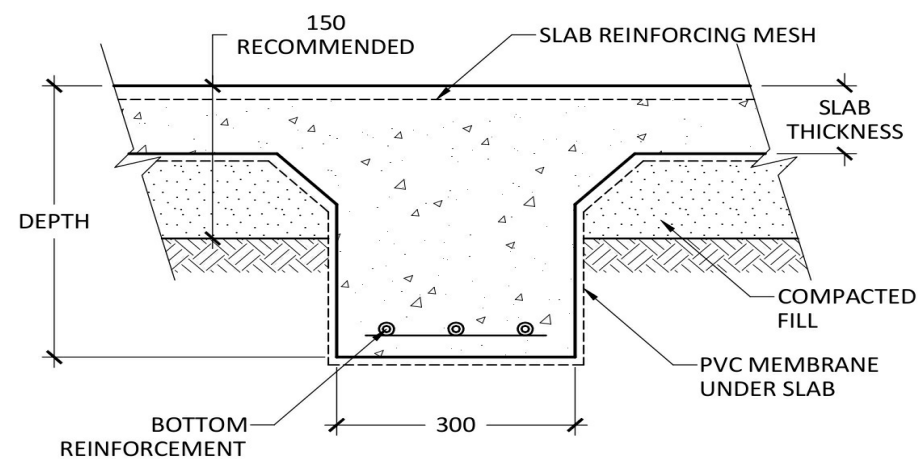


Purchaser Name: Stuart Smith		<div>Concrete Piers</div> <div>PIER MEASUREMENT ONLY. NOT FOR CONSTRUCTION</div> <div>Not to Scale</div> <div>© Copyright Steelx IP Pty Ltd</div>	<div>Seller: Sheds n Homes Nowra</div> <div>Tycal Developments Pty Ltd</div> <div>Phone: (02) 4422 5033</div> <div>Fax</div> <div>Email: nowra@shedsnhomes.com.au</div>	<div>TNC ENGINEERING PTY LTD</div> <div>ACN: 610 855 260</div> <div>MIE Aust. (Registered NER Structural & Civil) 2741240</div> <div>QLD : RPEQ No. 13750; VIC : EC44684; TAS : CC6968; N.T : 225521ES;</div> <div>Practising Professional Structural & Civil Engineers</div>
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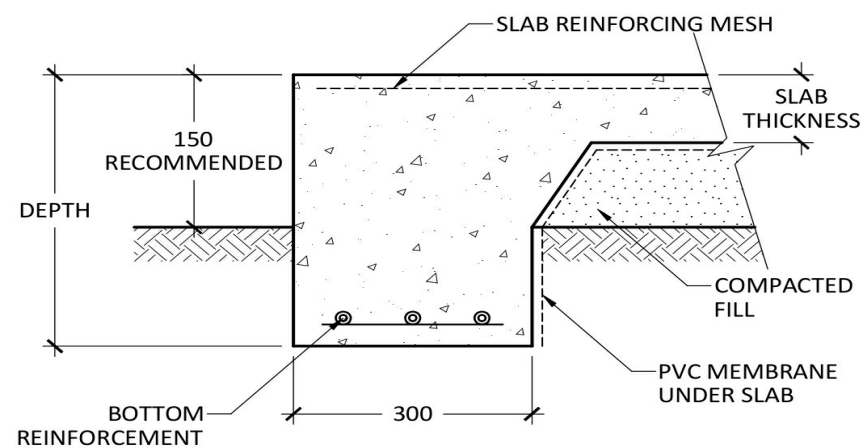
These dimensions are provided as a guide only. It is the responsibility of the concreter to confirm that all dimensions are correct.



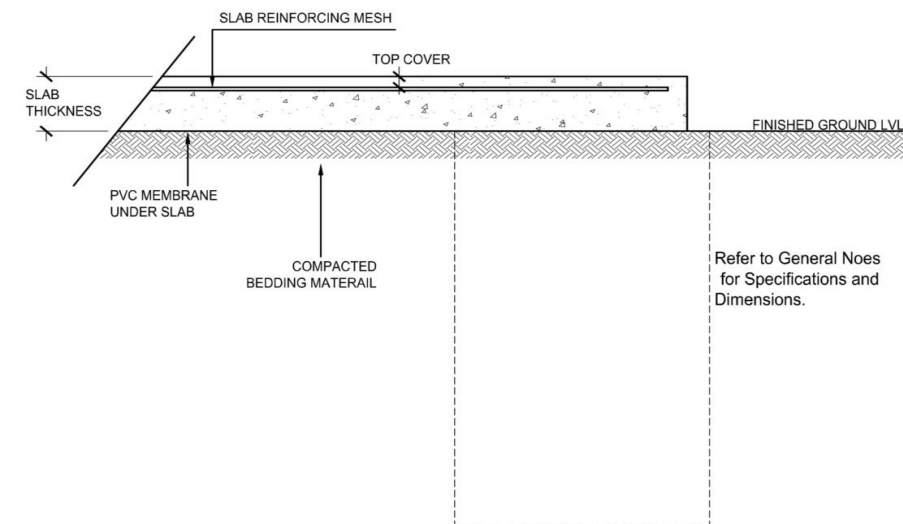
Purchaser Name: Stuart Smith		<div>Slab Dimensions</div> <div>Also refer to Concrete Piers Plan. NOT FOR CONSTRUCTION</div> <div>Not to Scale</div> <div>© Copyright Steelx IP Pty Ltd</div>	<div>Seller: Sheds n Homes Nowra</div> <div>Tycal Developments Pty Ltd</div> <div>Phone: (02) 4422 5033</div> <div>Fax:</div> <div>Email: nowra@shedsnhomes.com.au</div>	<div>TNC ENGINEERING PTY LTD</div> <div>ACN: 610 855 260</div> <div>ME Aust. (Registered NER Structural & Civil) 2741240</div> <div>QLD : RPEQ No. 13750; VIC : EC44684; TAS : CC6968; N.T : 225521ES;</div> <div>Practising Professional Structural & Civil Engineers</div> <div>Signature:  R. Nancarrow</div> <div>Date: 22/01/20</div>
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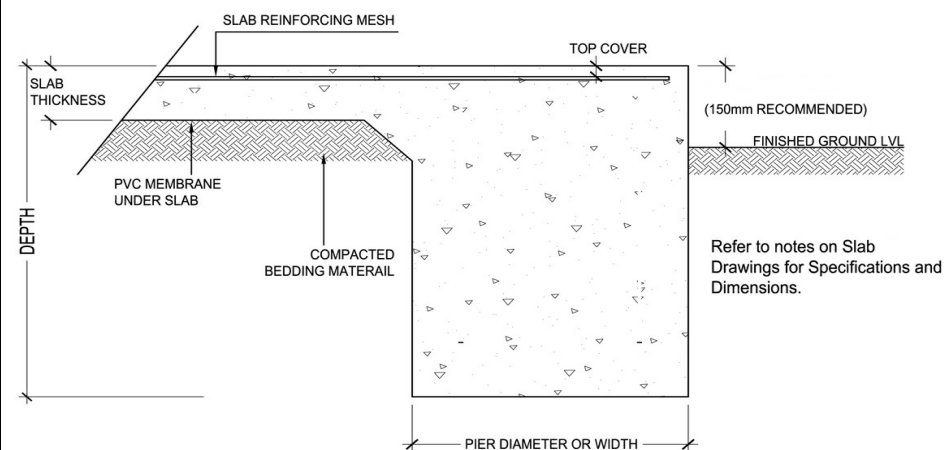
INTERNAL BEAM
(H1 & H2 SOIL TYPE ONLY)



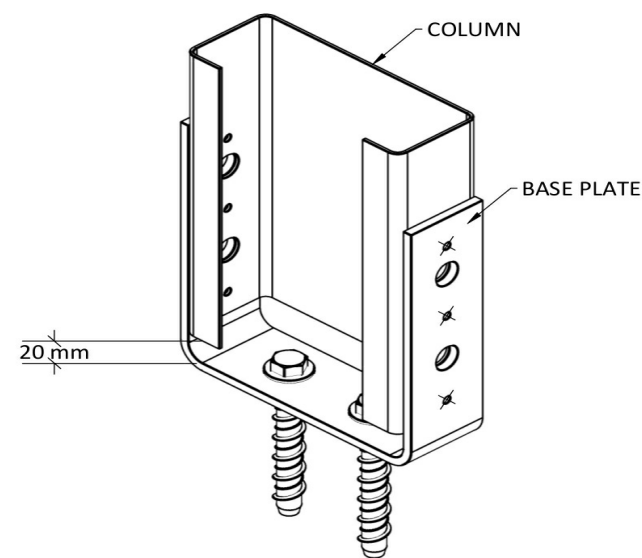
PERIMETER BEAM
(H1 & H2 SOIL TYPE ONLY)



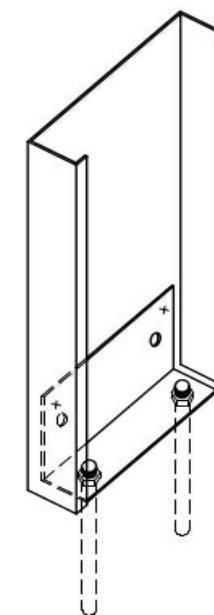
SLAB DETAIL BETWEEN PIERS
(Class A , S & M)



SLAB AND PIER DETAIL



FIXING BOLTS - 2 of M12 x 100 SCREWBOLT
○ FIXING BOLTS - 4 of M12 x 30
× FIXING SCREWS - 6 of 12.14 x 22 Hex
C150 COLUMN FIXING



× FIXING SCREWS - 2 of 14.20 x 22
○ FIXING BOLTS - 2 of M12 x 30
2 of TRUEBOLT M12 X 80
C150 MULLION BASE PLATE

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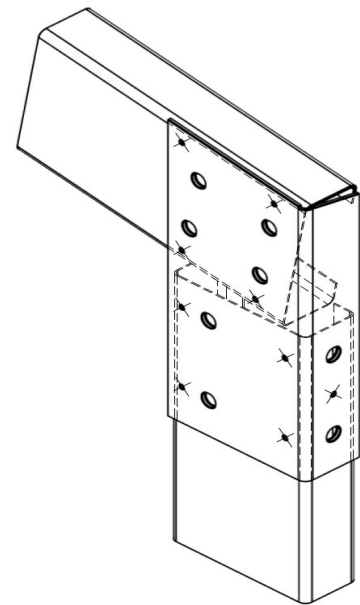
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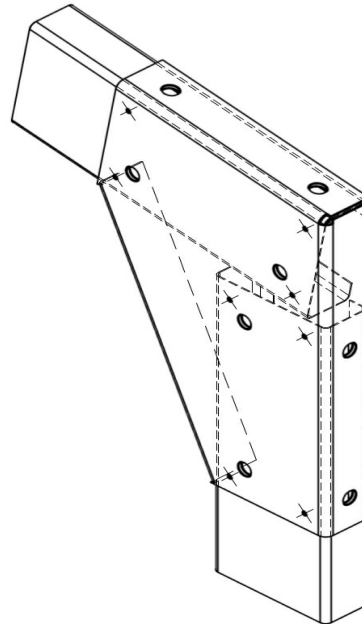
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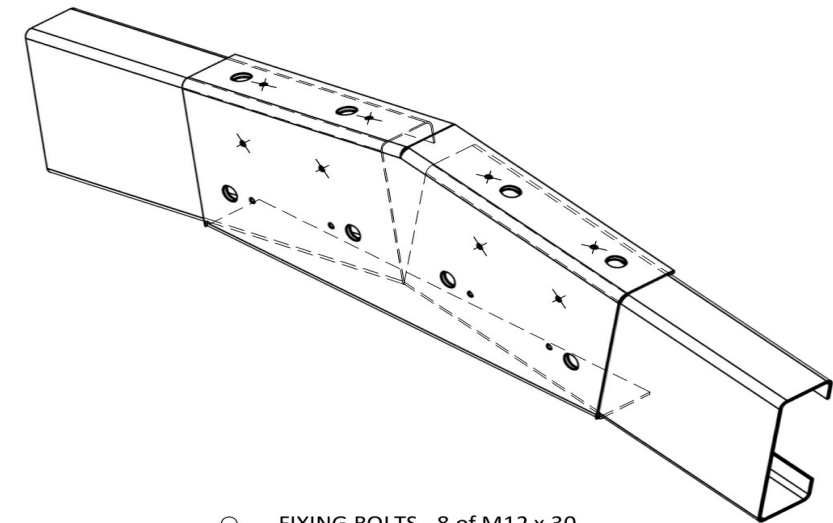
- FIXING BOLTS - 8 of M12 x 30
 × FIXING SCREWS - 9 of 14.20 x 22

HAUNCH BRACKET - C150, 10°



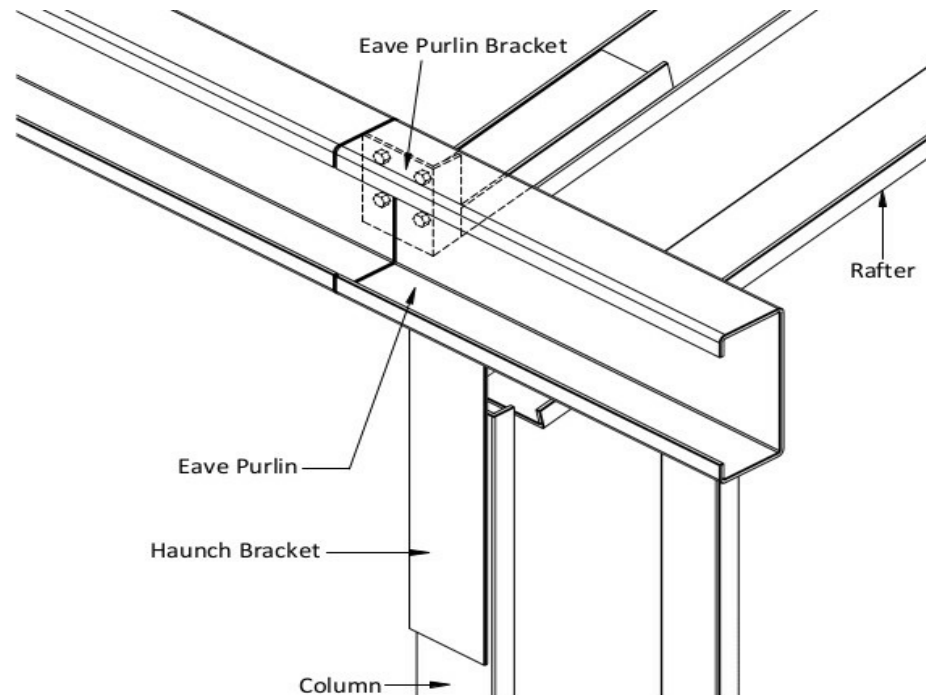
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 × FIXING SCREWS - 8 of 14.20 x 22

HAUNCH BRACKET - C150, 10°



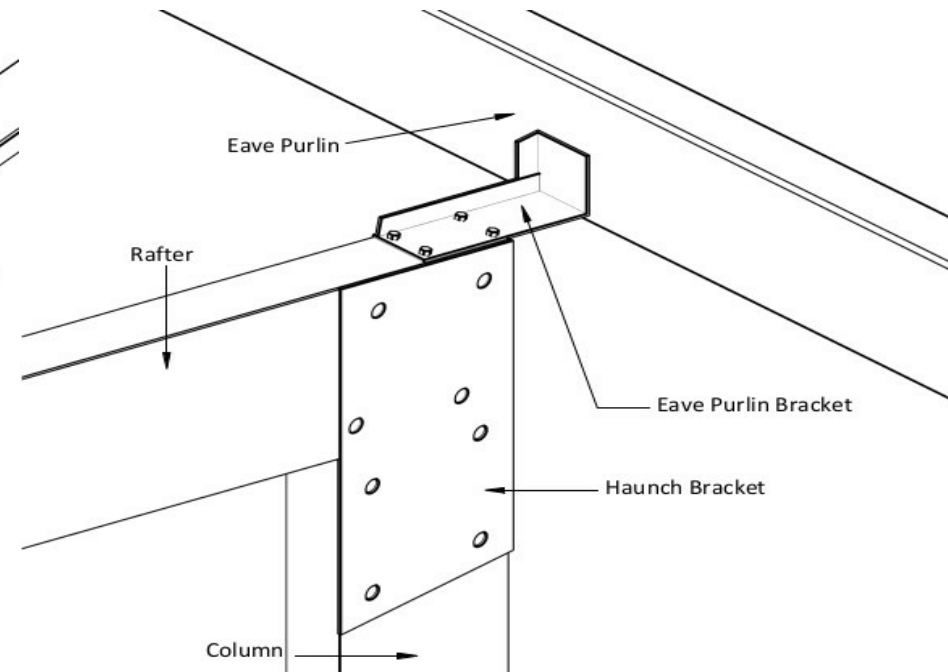
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 × FIXING SCREWS - 8 of 14.20 x 22

APEX PLATE, C150, 10°



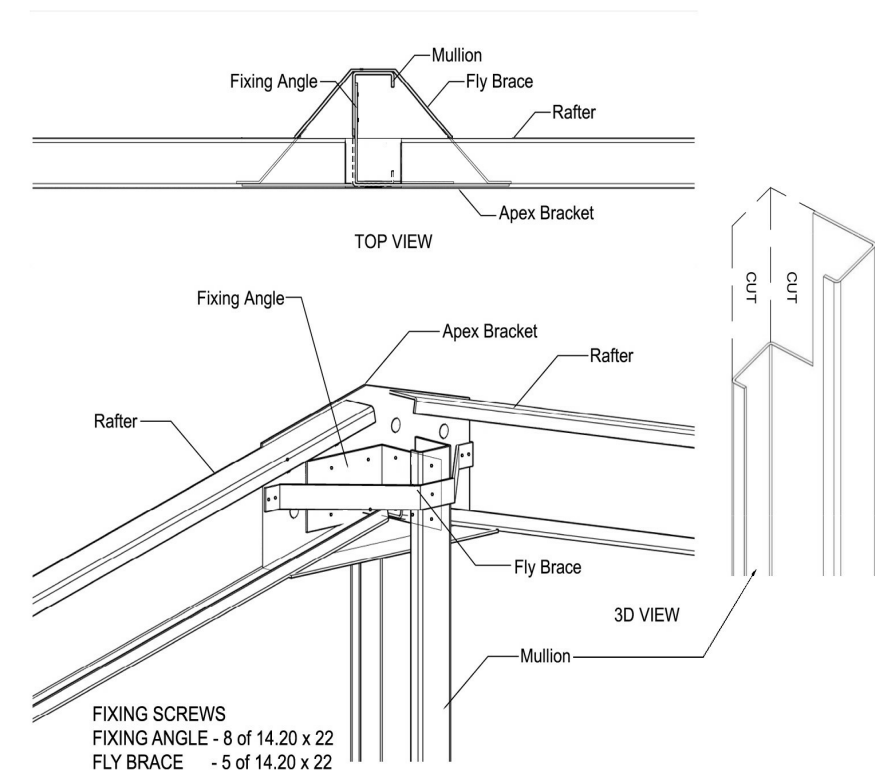
FIXING SCREWS - 4 of 14.20 x 22

EAVE PURLIN TO EAVE PURLIN BRACKET



FIXING SCREWS - 4 of 14.20 x 22

EAVE PURLIN BRACKET TO RAFTER



FIXING SCREWS
 FIXING ANGLE - 8 of 14.20 x 22
 FLY BRACE - 5 of 14.20 x 22

END WALL MULLION TO APEX

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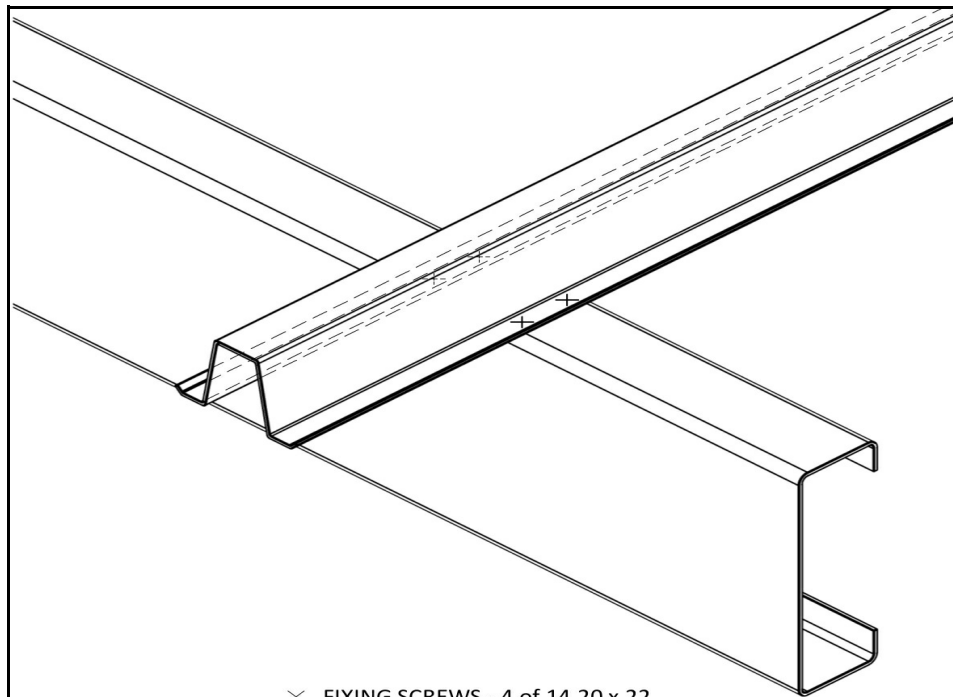
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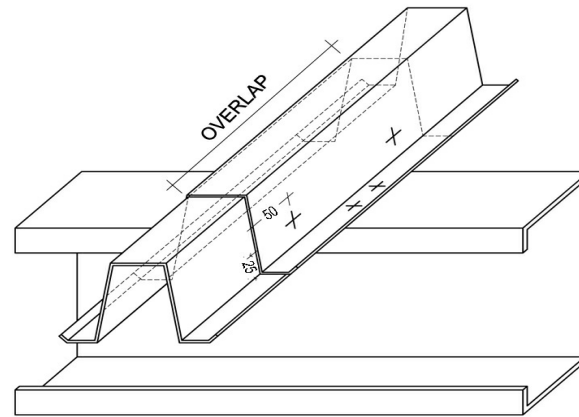
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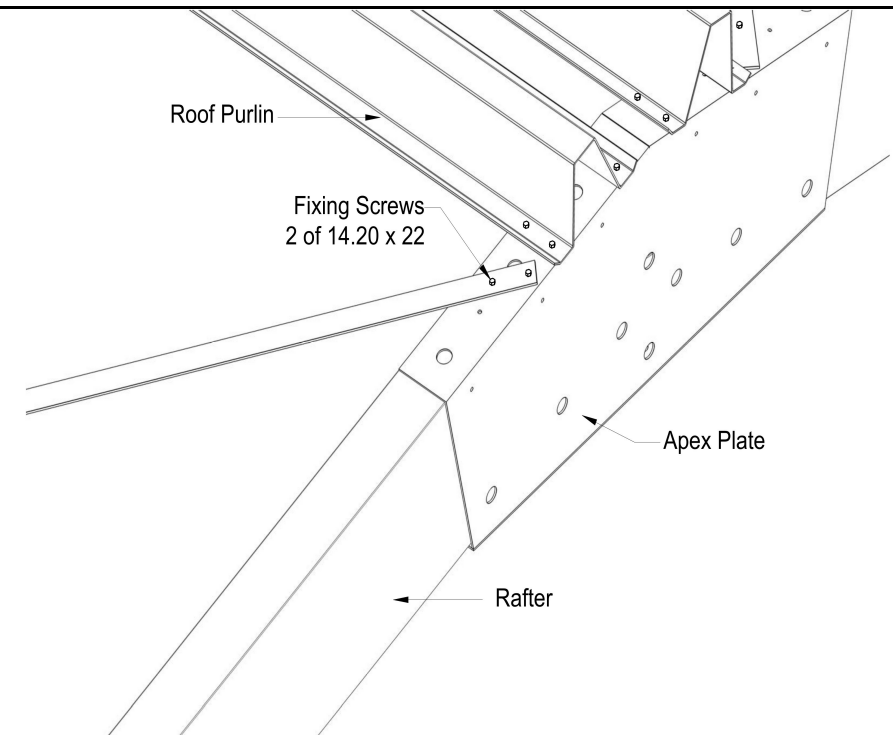
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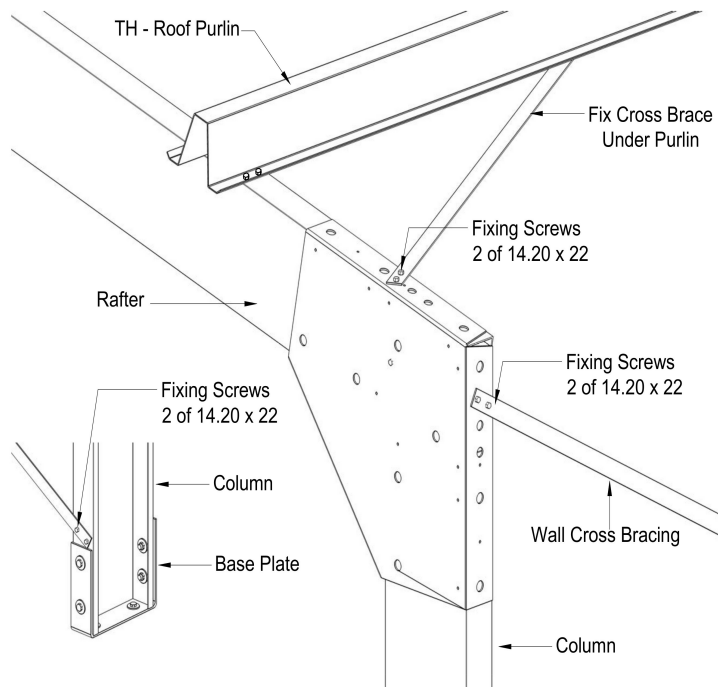
× FIXING SCREWS - 4 of 14.20 x 22
OVERHANG = TOP HAT DEPTH OF THE END WALL GIRT
**PURLIN & SIDE GIRT END WALL FIXING - TOP HAT
SINGLE COLUMN OR RAFTER**



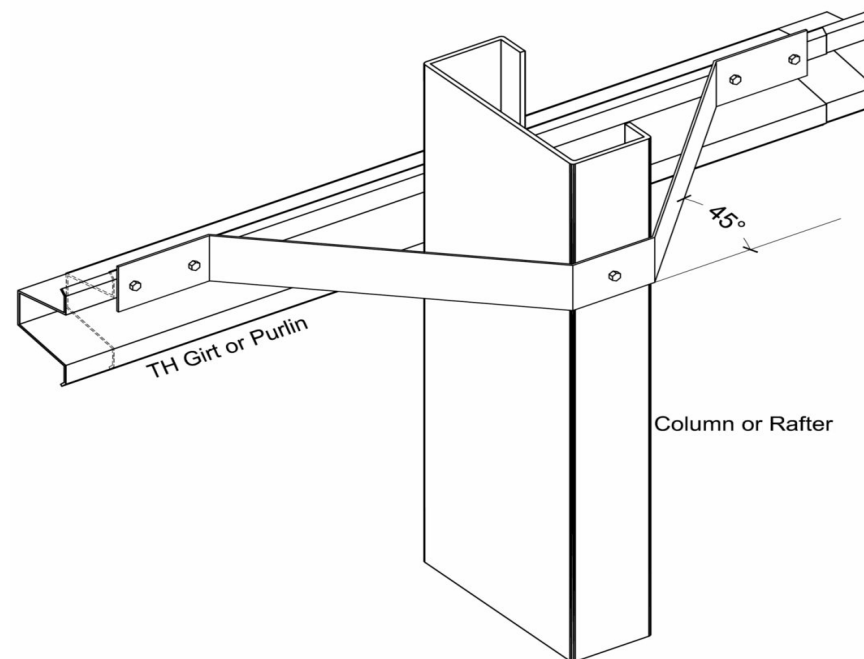
× FIXING SCREWS - 8 of 14.20 x 22
LAP = Greater of 10% of span or 500 mm
**PURLIN/GIRT FIXING - TOPHAT 64
SINGLE COLUMN OR RAFTER**



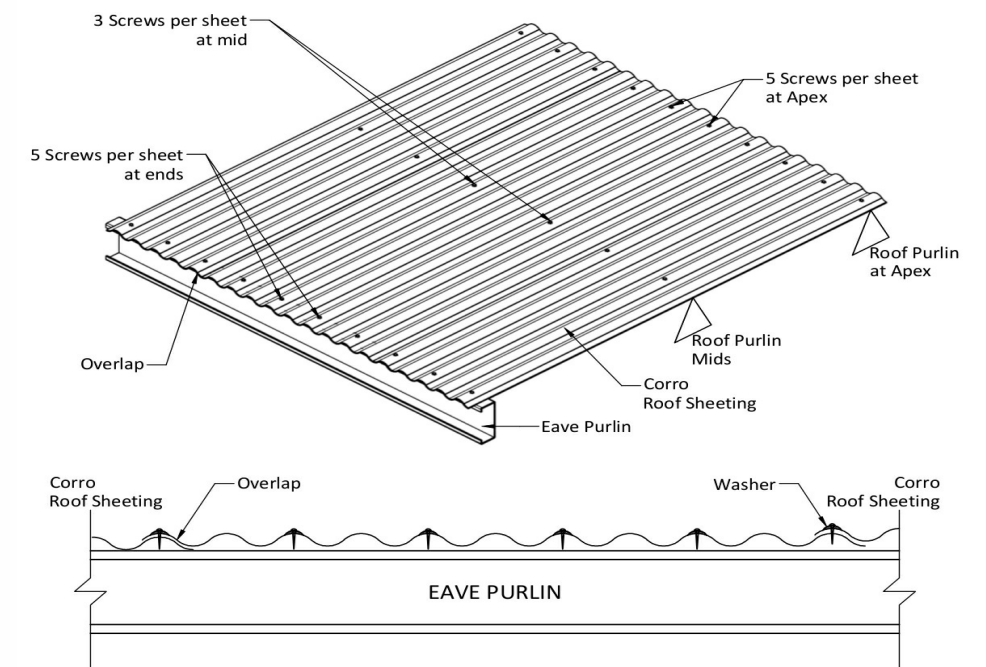
BRACING CONNECTION AT APEX



BRACING CONNECTION



FIXING SCREWS - 5 of 14.20 x 22
FLY BRACING



Roofing Screws - 12.14 x 35 Hex Seal High Grip with Cyclonic Washer

CORRO ROOF SHEET FIXING

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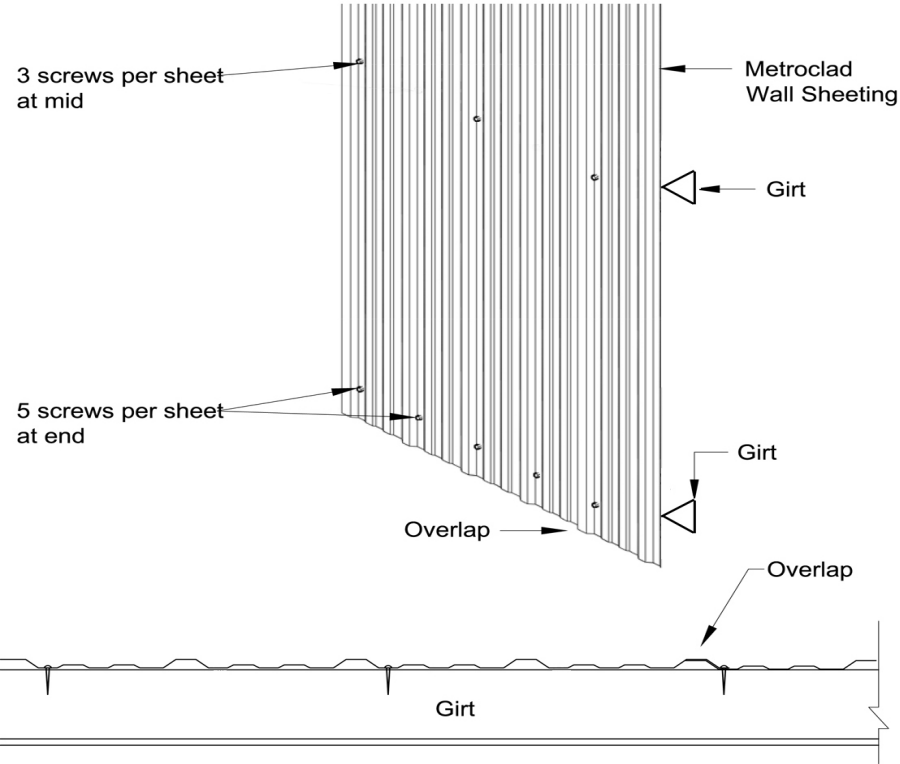
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Site Address: 5 Mnmai Road Mona Vale NSW 2103 Australia

Drawing # SNOW200005 - 8

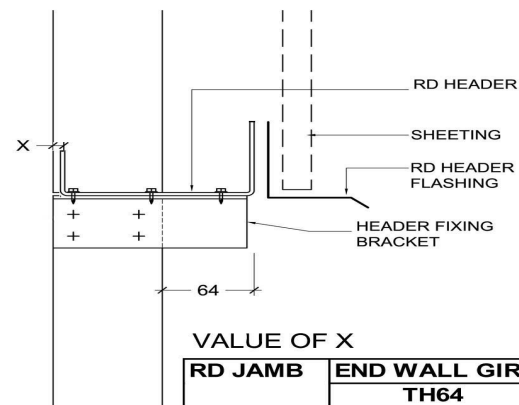
Print Date: 22/01/20

Connection Details
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Not to Scale
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Seller: Sheds n Homes Nowra
Tycal Developments Pty Ltd
Phone: (02) 4422 5033
Fax:
Email: nowra@shedsnhomes.com.au

TNC ENGINEERING PTY LTD
ACN: 610 855 260
ME Aust. (Registered NER Structural & Civil) 2741240
QLD : RPEQ No. 13750; VIC : EC44684; TAS : CC6968; N.T : 225521ES;
Practising Professional Structural & Civil Engineers

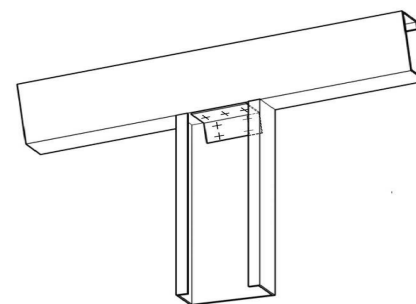
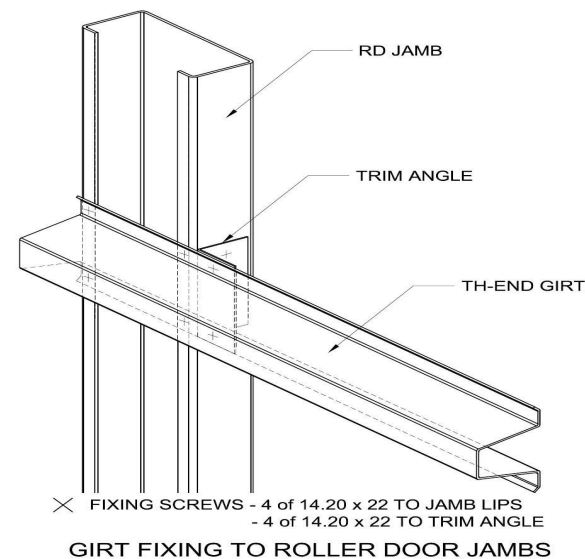
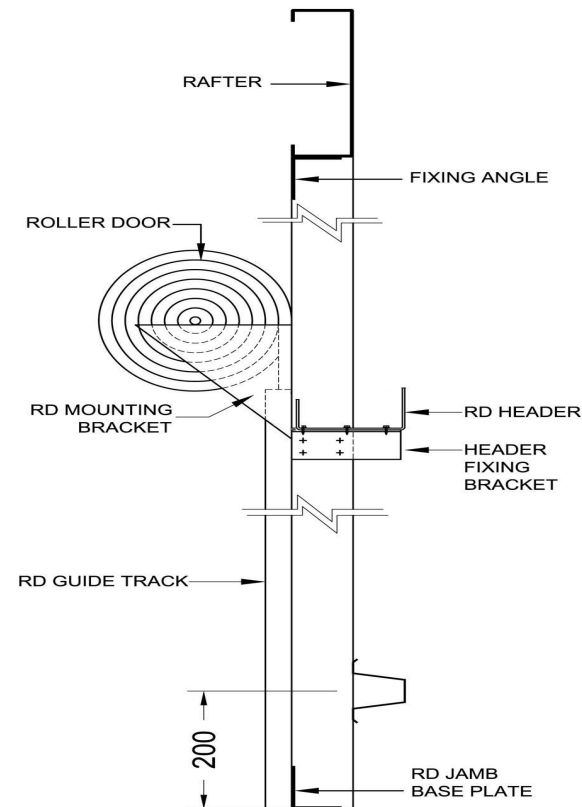
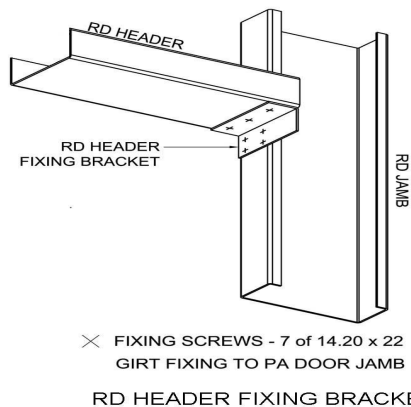
Signature:  R. Nancarrow
Date: 22/01/20



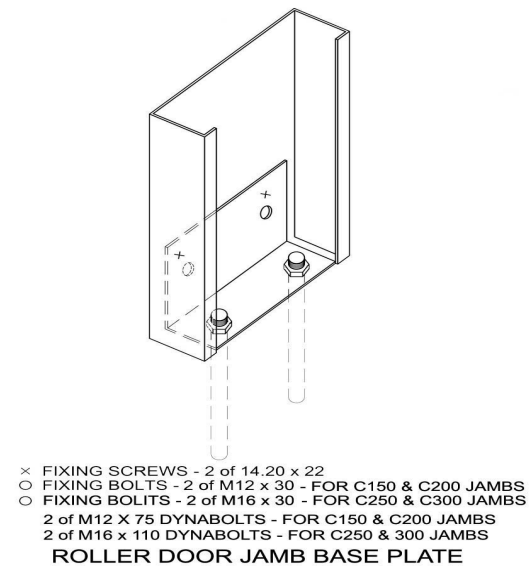
VALUE OF X

RD JAMB	END WALL GIRT
	TH64
C150	0
C200	- 12
C250	- 12

NOTE:
 + = projection of header into the building
 - = distance in from door jamb web

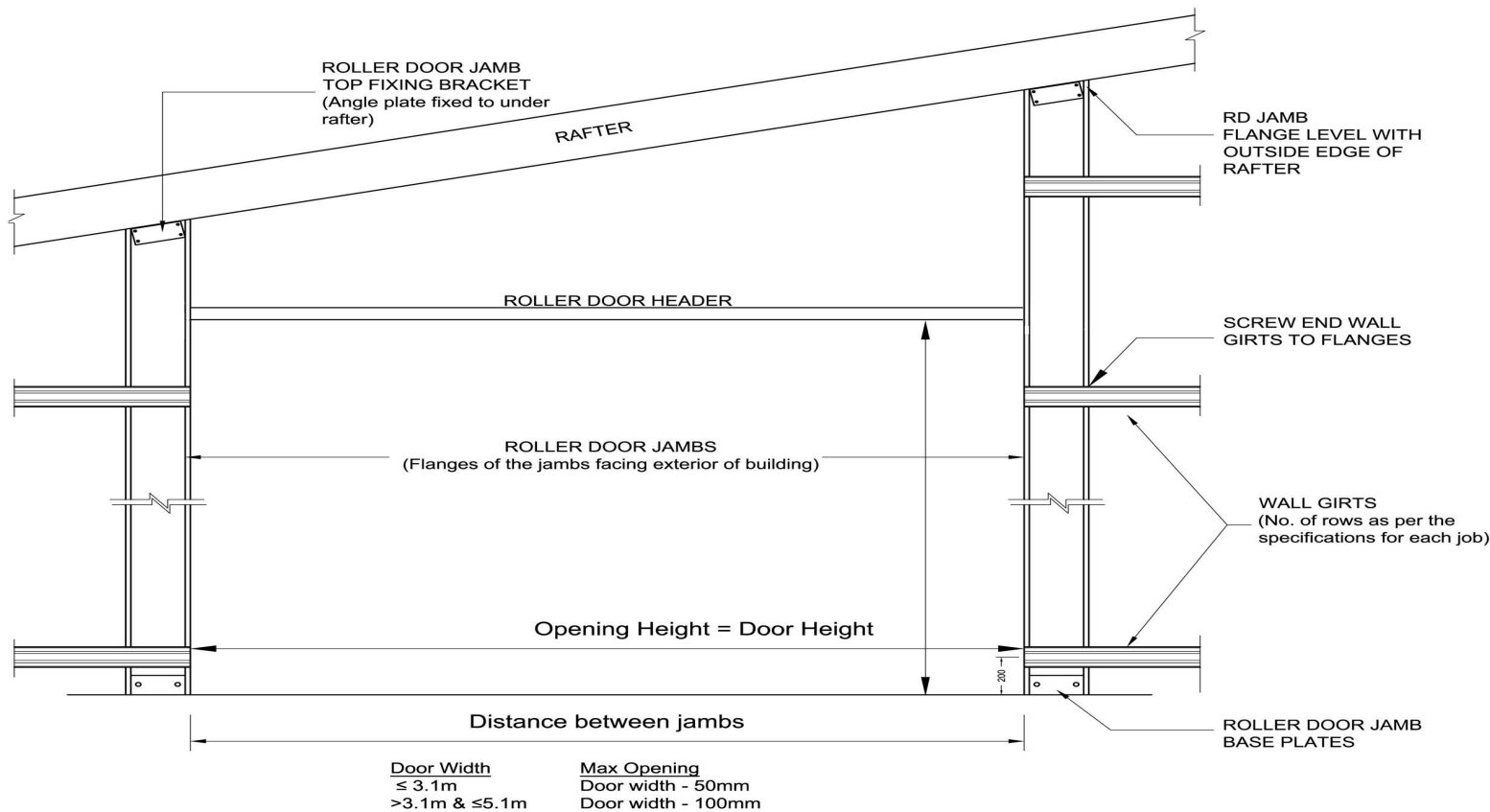


O FIXING BOLTS - NIL
 X FIXING SCREWS - 7 x 14.20 x 22
 ROLLER DOOR JAMB TOP FIXING



ROLLER DOOR DETAILS

(Door under 4.0m)
 Gable end wall ONLY



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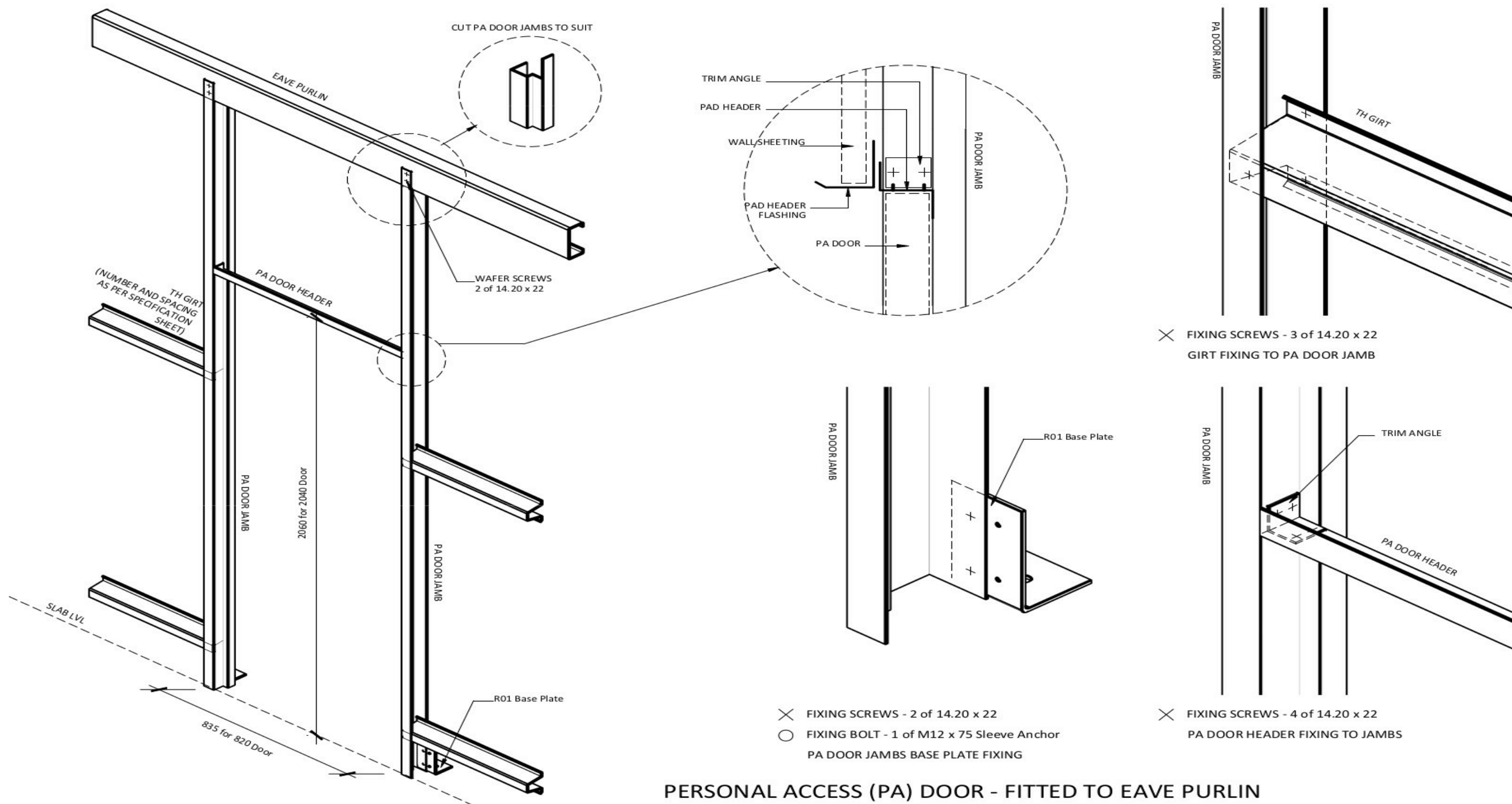
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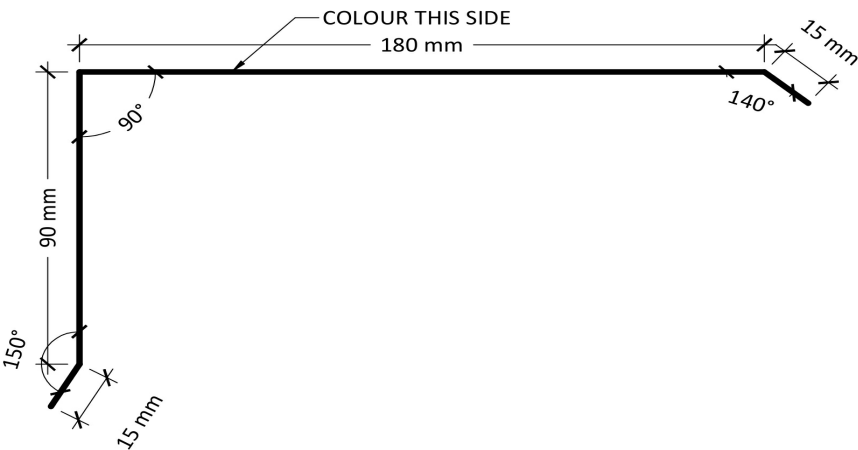
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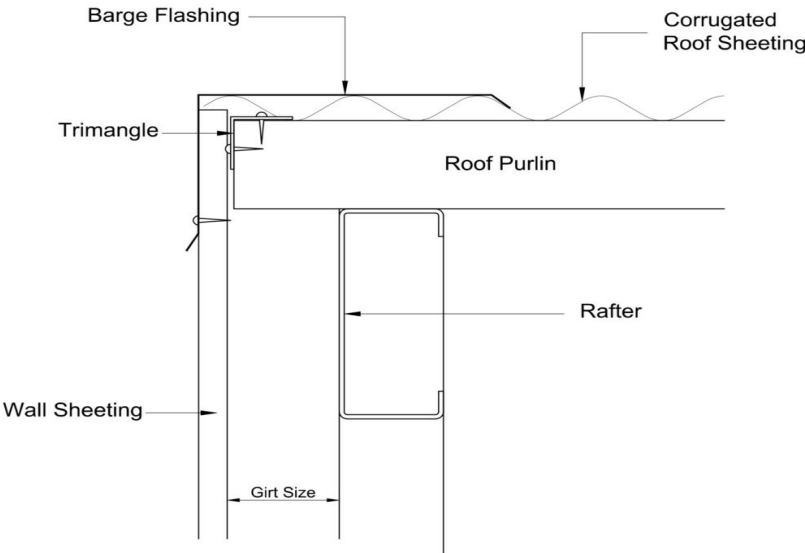
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Signature:  R. Nancarrow
Date: 22/01/20

Barge Capping - Corodek

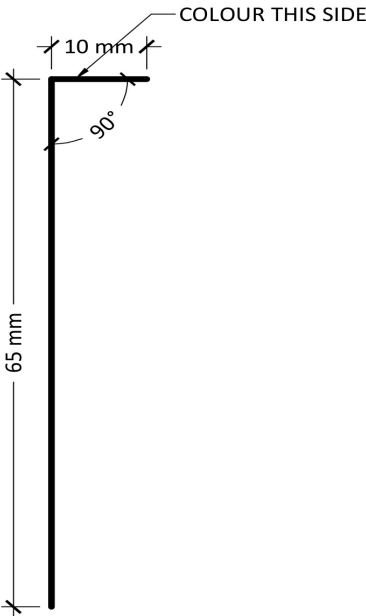


XF10



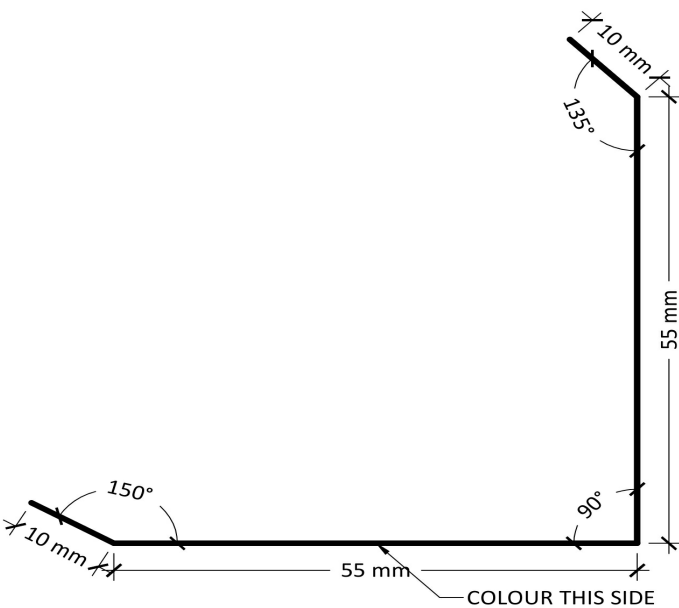
Barge Flashing XF10 - Sheeting Gable

RD Side - Cover Flash

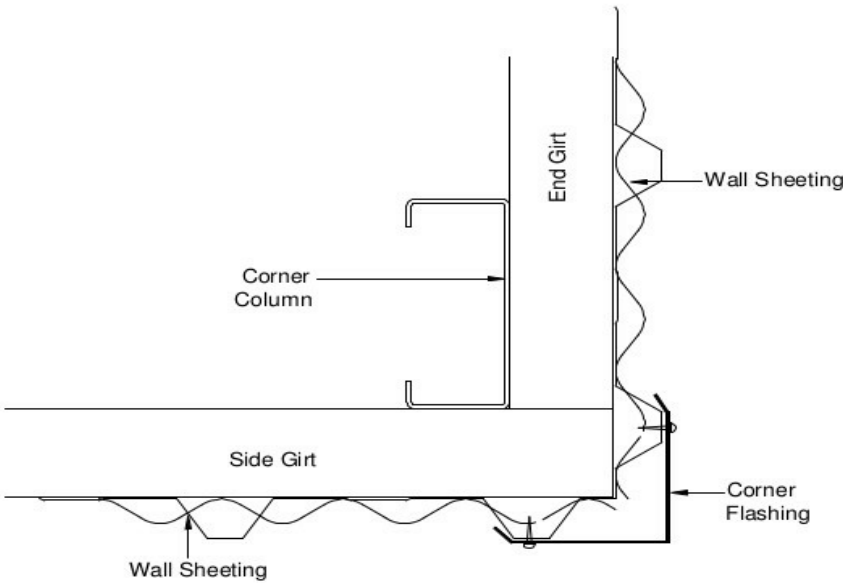


XF18

65 x 65 - Corner Flashing

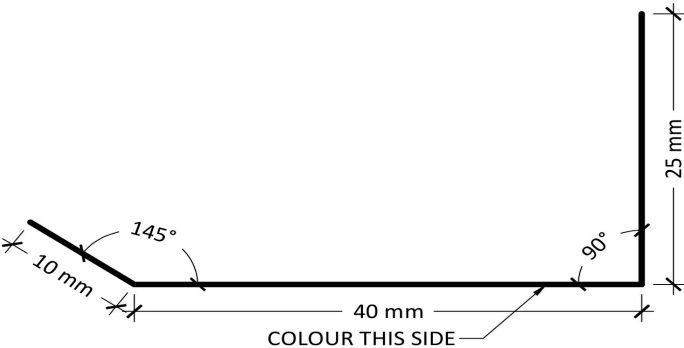


XF20



Corner Flashing XF20 - Connection

Corro - PA Door Side Flashing



XF233

Purchaser Name: Stuart Smith

Site Address: 5 Mnmai Road Mbona Vale NSW 2103 Australia

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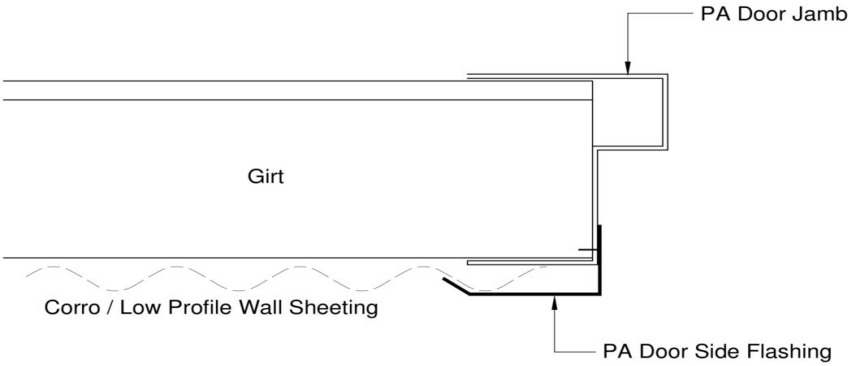
Flashing Fixing Details
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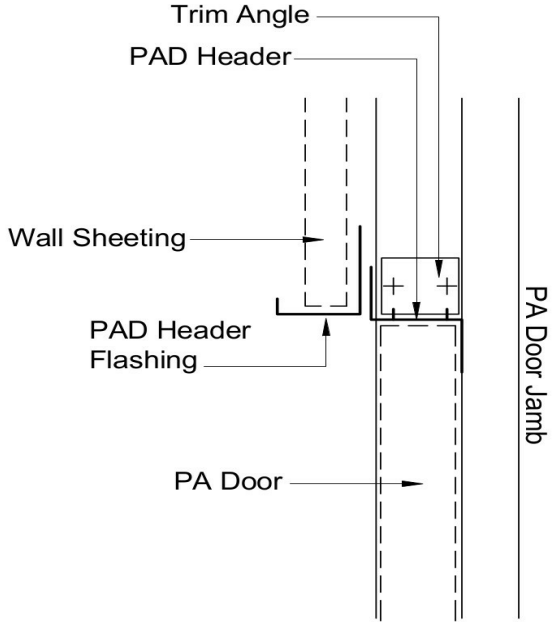
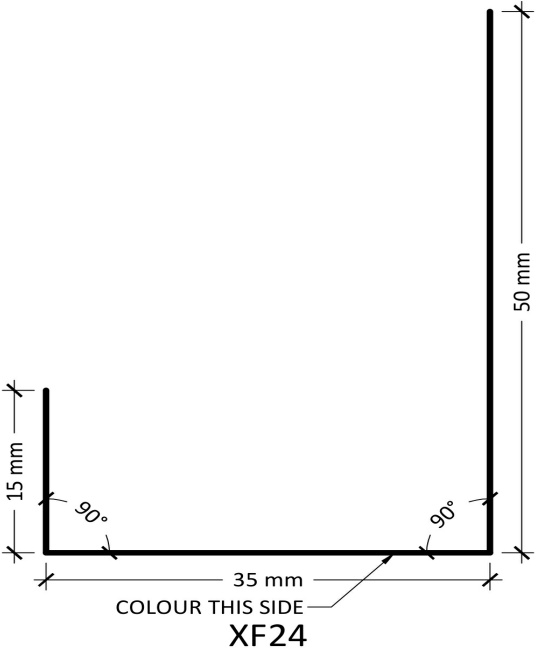
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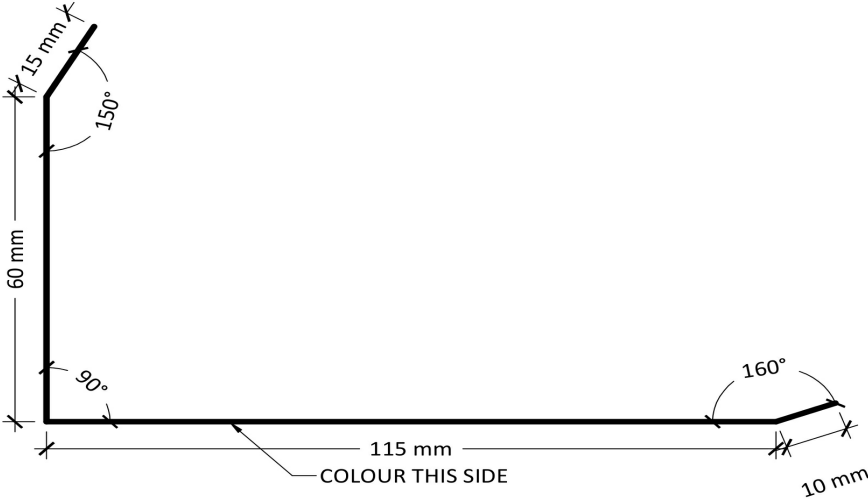
PA Door - RD Header Flashing



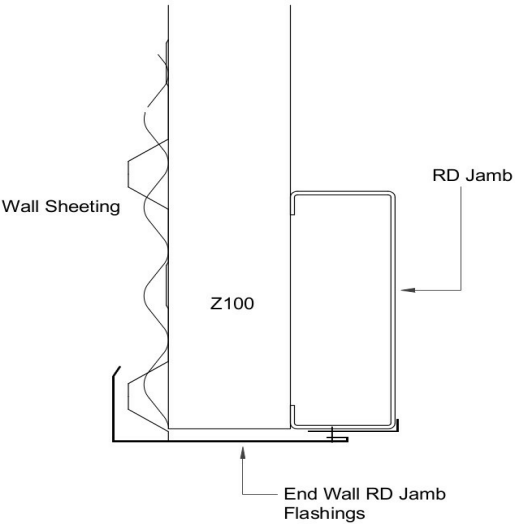
PA Door Side Flashing XF233



Roller Door Side Flashing - End Walls

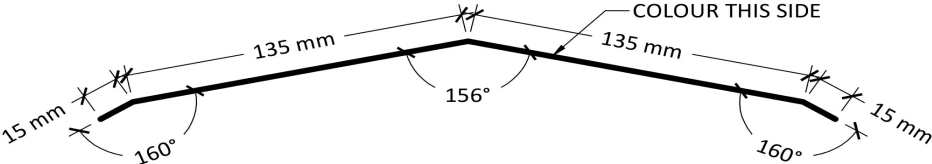


XF27



End Wall RD Jamb Flashing XF27/18

12° Ridge Flashing (150)



XF82

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Site Address: 5 Mnmai Road Mbona Vale NSW 2103 Australia

Drawing # SNOW200005 - 9

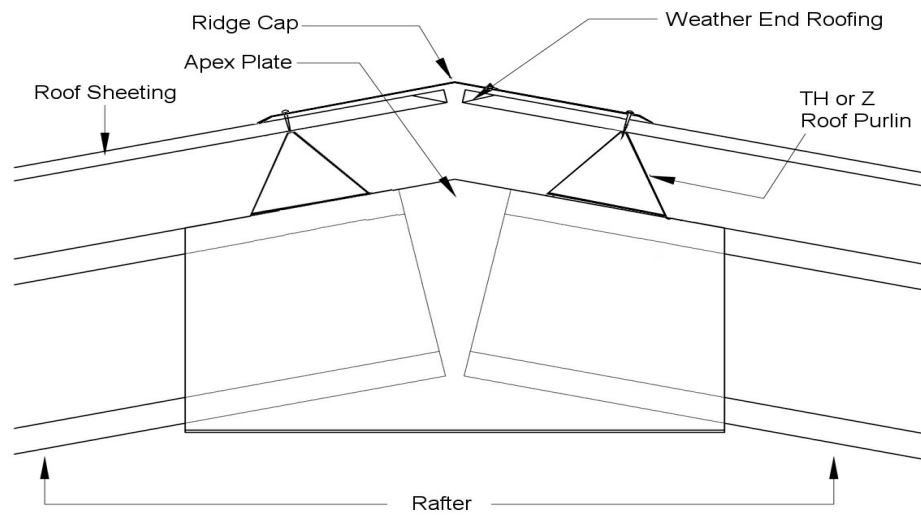
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Signature:  R. Nancarrow
Date: 22/01/20



Ridge Cap - XF 82

Purchaser Name: Stuart Smith

Site Address: 5 Mnmai Road Mbona Vale NSW 2103 Australia

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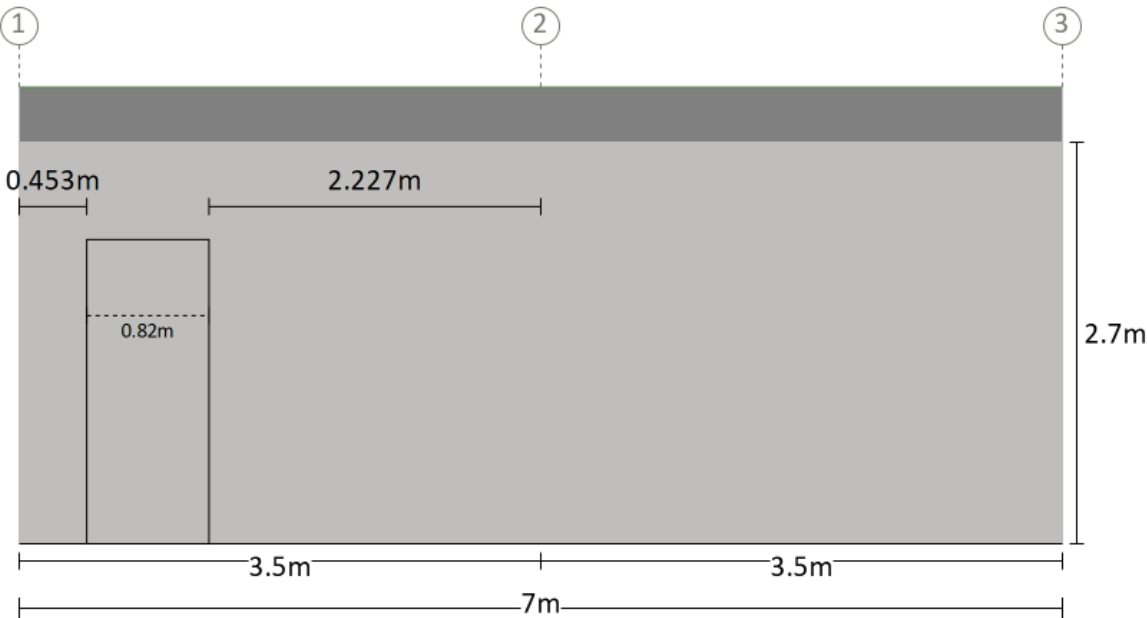
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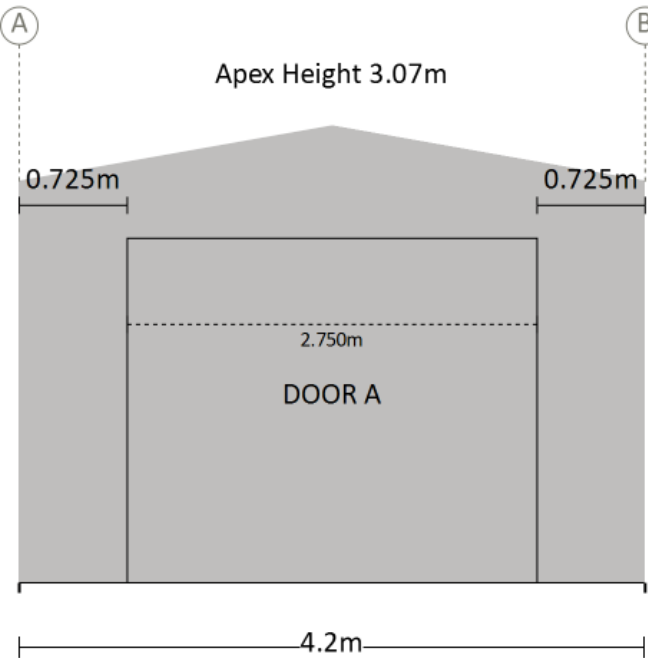
This setout is provided as a guide only. It is the responsibility of the concreter/erector to confirm that all dimensions are correct.

Left Side



Measurements are from the outside of end girts (end bays) and/or centre of columns (mid bays) to inside of component opening size.

Left End



Measurements are from the outside of side girts to the inside of component opening size.

Purchaser Name: Stuart Smith

Site Address: 5 Mnmai Road Mbona Vale NSW 2103 Australia

Drawing # SNOW200005 - 10

Print Date: 22/01/20

Component Position
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