

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 Earlier plans provided may have become outdated due to engineering changes and should not be used.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

## 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).

## 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.

## PIER DETAILS - GENERAL

\* The minimum size of Piers under the columns and End Wall Mullions are nominated on the Material Specifications Plan.

\* 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.\* Pier design covers sites with a minimum of 100kPa safe bearing capacity soil classification 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 3600:2018

\* All concrete to be in accordance with AS 3600:2018. Minimum 25 Mpa, with 80mm slump.

\* Piers should be cured for 7 days before commencing construction of the building.

\*All dimensions are from center of columns.\* 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.

## Concrete Piers Only

### For Class A, S or M Sites

\* Concrete piers under Roller Door Jambs to be a minimum size as below:

- C20019 - 450mm dia x 1000mm deep, centered to the C Section
- C15019 - 300mm dia x 750mm deep, centered to the C Section

### For Class H1 or H2 Sites

\* Concrete piers under Roller Door Jambs to be a minimum size as below:

- C20019 - 450mm dia x 1300mm deep, centered to the C Section
- C15019 - 300mm dia x 1000mm deep, centered to the C Section

## BRACING NOTES

\* Refer to Connection Details.

\* Knee bracing clearance from FFL is X = Main Building: 3.725m.

\* 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.

\* Open bays to have fly bracing fitted to every available girt supporting the header sheets.

\* 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

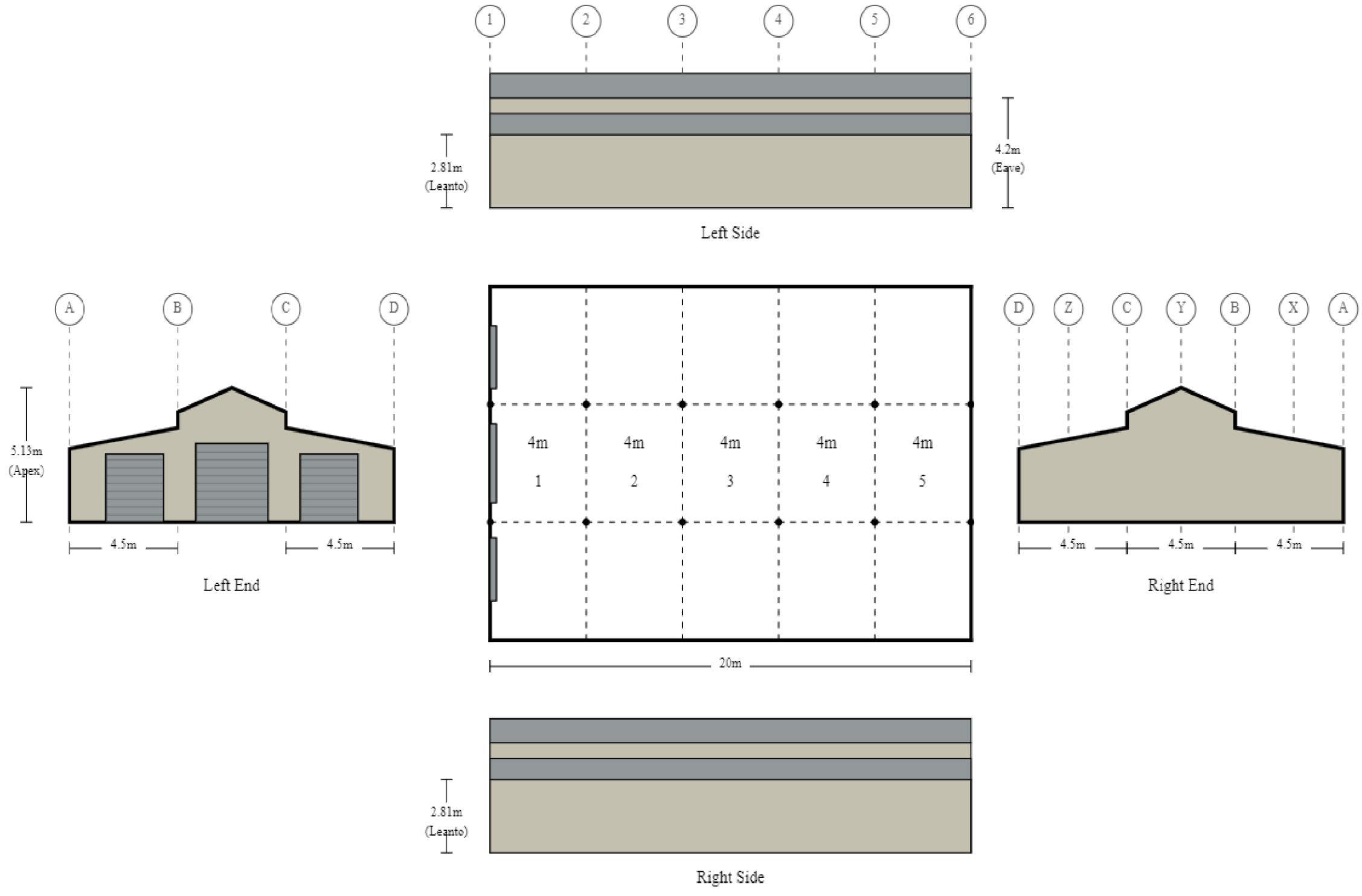
All comments regarding roller doors are based from inside the building looking out.

## 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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Piers Only	18/08/21	NA	Site Address: 426 The Driftway Londonderry NSW 2753 Australia					Page 1 of 1 ©Copyright Steeltx IP Pty Ltd	Signatur	J. Ronaldson Date: 28/06/21
			Drawing # WSS212462 - 2							
			Print Date: 26/06/2021							



Purchaser Name: Robert Stutsel

Site Address: 426 The Driftway Londonderry NSW 2753 Australia

Drawing # WSS212462 - 3

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**Layout**  
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Signature

Ronaldson

ate: 26/06/21

## 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	4.5	20	22.5	4.2	B - C	1 - 6
Left Leanto	4.5	20	10	2.807	A - X	1 - 6
Right Leanto	4.5	20	10	2.807	Z - D	1 - 6

### Portal Frame Elements

Grid / Portal Number		1	2	3	4	5	6
Columns	A	C15012	C15012	C15012	C15012	C15012	C15012
	B	C15019	C20024	C20024	C20024	C20024	C15019
	C	C15019	C20024	C20024	C20024	C20024	C15019
	D	C15012	C15012	C15012	C15012	C15012	C15012
Rafters	A - B	C15012	C15015	C15015	C15015	C15015	C15012
	B - Apex	C15012	C15012	C15012	C15012	C15012	C15012
	Apex - C	C15012	C15012	C15012	C15012	C15012	C15012
End Wall Mullions	C - D	C15012	C15015	C15015	C15015	C15015	C15012
	X	-	C20015	C20015	C20015	C20015	C15019
	Y	-	-	-	-	-	C15019
	Z	-	C20015	C20015	C20015	C20015	C15019
Apex Braces	Apex	-	C15012 @ 1.35m	C15012 @ 1.35m	C15012 @ 1.35m	C15012 @ 1.35m	-
Knee Braces	B - Apex		C15012 @ 1m	C15012 @ 1m	C15012 @ 1m	C15012 @ 1m	
	Apex - C		C15012 @ 1m	C15012 @ 1m	C15012 @ 1m	C15012 @ 1m	
	C - D						

### Bay Section Elements

Grid / Bay Number		1	2	3	4	5	Maximum
Bay Widths		4	4	4	4	4	
Roof Purlins (refer to Purlin And Girt Plan)		Z100	Z100	Z100	Z100	Z100	
Roof Purlin Spacing (End)	A - B	1.4	1.4	1.4	1.4	1.4	1.400
	B - Apex	1.11	1.11	1.11	1.11	1.11	1.400
	Apex - C	1.11	1.11	1.11	1.11	1.11	1.400
	C - D	1.4	1.4	1.4	1.4	1.4	1.400
Roof Purlin Spacing (Internal Spans)	A - B	1.497	1.497	1.497	1.497	1.497	1.550
	B - Apex	1.11	1.11	1.11	1.11	1.11	1.550
	Apex - C	1.11	1.11	1.11	1.11	1.11	1.550
	C - D	1.497	1.497	1.497	1.497	1.497	1.550
Eave Purlin	A	C10012	C10012	C10010	C10012	C10012	
	B	C10010	C10010	C10010	C10010	C10010	
	C	C10010	C10010	C10010	C10010	C10010	
	D	C10010	C10010	C10010	C10010	C10010	
Side Girts (refer to Purlin And Girt Plan)		Z100	Z100	Z100	Z100	Z100	
Side Girts Spacing (End)	A	1.288	1.288	1.288	1.288	1.288	1.700
	B	0.5	0.5	0.5	0.5	0.5	1.700
	C	0.5	0.5	0.5	0.5	0.5	1.700
	D	1.288	1.288	1.288	1.288	1.288	1.700
Side Girts Spacing (Internal)	A	1.288	1.288	1.288	1.288	1.288	1.700
	B	0.5	0.5	0.5	0.5	0.5	1.700
	C	0.5	0.5	0.5	0.5	0.5	1.700
	D	1.288	1.288	1.288	1.288	1.288	1.700

### End Bay Section Elements

Grid / Portal Number	1	6	Maximum
End Girts (refer to Purlin And Girt Plan)	Z100	Z100	

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							Signature	I. Ronakison Date: 26/06/21

## MATERIAL SPECIFICATIONS

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

### End Bay Section Elements (Continue)

Grid / Portal Number		1	6	Maximum
End Girt Bridging (Rows)	B - C	YES (1)	-	
	C - D	-	-	
	A - X	-	-	
	X - B	-	-	
	B - Y	-	-	
	Y - C	-	-	
	C - Z	-	-	
	Z - D	-	-	
End Girts Spacing (End)	A - B	1.288	-	1.700
	B - C	1.323	-	1.700
	C - D	1.288	-	1.700
	A - X	-	1.288	1.700
	X - B	-	1.288	1.700
	B - Y	-	1.323	1.700
	Y - C	-	1.323	1.700
	C - Z	-	1.288	1.700
	Z - D	-	1.288	1.700
End Girts Spacing (Internal)	A - B	1.288	-	1.700
	B - C	1.323	-	1.700
	C - D	1.288	-	1.700
	A - X	-	1.288	1.700
	X - B	-	1.288	1.700
	B - Y	-	1.323	1.700
	Y - C	-	1.323	1.700
	C - Z	-	1.288	1.700
	Z - D	-	1.288	1.700
Roller Door Header	A - B	HEADER2	-	
	B - C	HEADER3	-	
	C - D	-	-	
	A - X	-	-	
	X - B	-	-	
	B - Y	-	-	
	Y - C	-	-	
	C - Z	-	-	
	Z - D	-	-	
Roller Door Jambs	A - B	C15019	-	
	B - C	C20019	-	
	C - D	-	-	
	A - X	-	-	
	X - B	-	-	
	B - Y	-	-	
	Y - C	-	-	
	C - Z	-	-	
	Z - D	-	-	

### Cladding Elements

Category	Colour	Product
Roof Sheeting	Windspray	TRIMCLAD® 0.42 BMT (0.47TCT)
Roof Flashings	COLORBOND® steel	BlueScope 0.55 BMT
Wall Sheeting	EveningHaze	TRIMCLAD® 0.42 BMT (0.47TCT)

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**MATERIAL SPECIFICATIONS**

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

**Cladding Elements (Continue)**

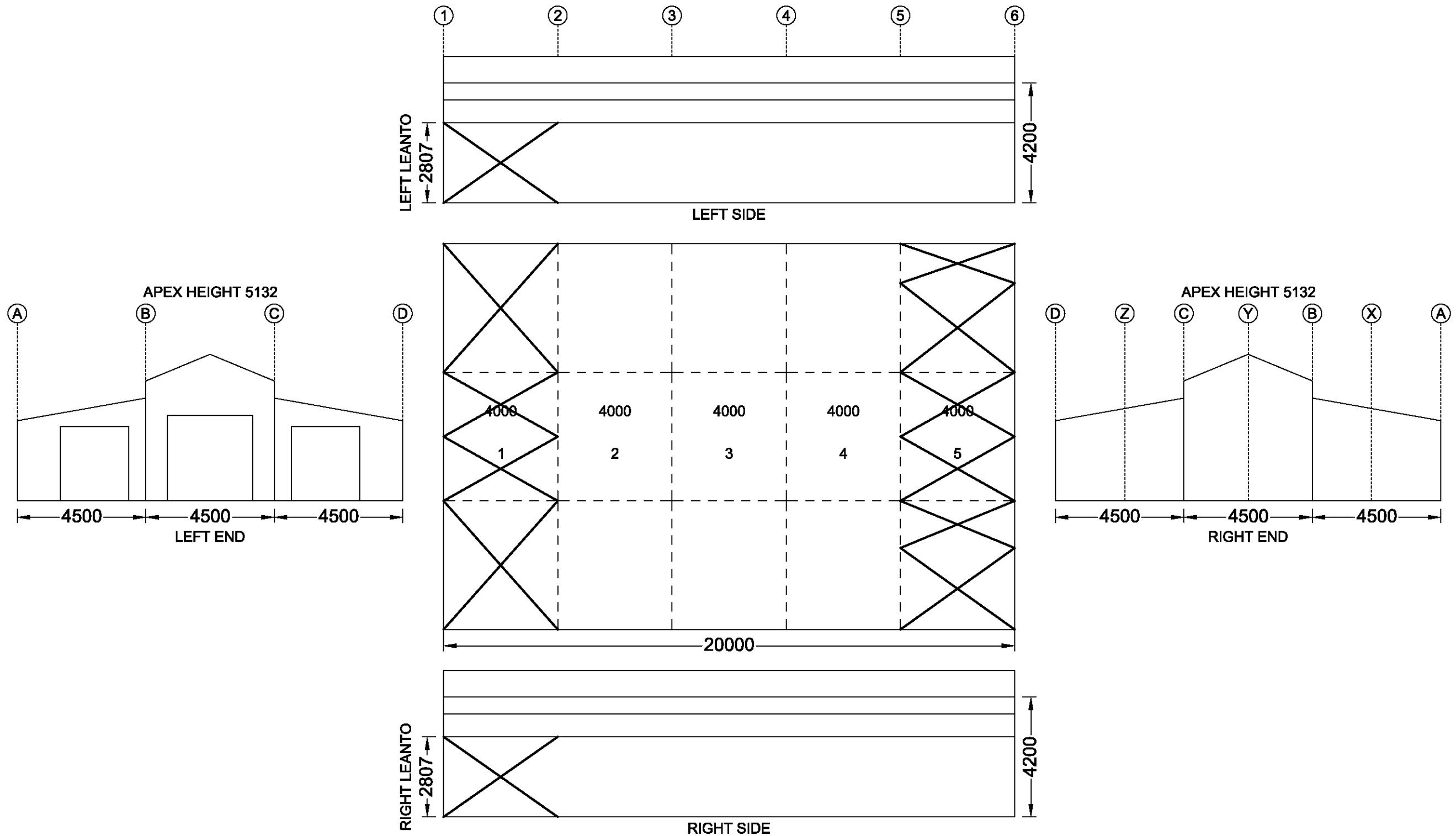
Category	Colour	Product
Wall Flashing	COLORBOND® steel	BlueScope 0.55 BMT

**Pier Sizes**

Adhesion (kPa)	Soil Description	Diameter (m)	Depth (m) - when NO Slab			
			BP1	BP2	BP3	BP4
0	Sandy Soil	0.3	0.8	0.7	-	1.1
		0.45	0.6	0.6	0.8	0.7
		0.6	0.6	0.6	0.6	0.6
25	Soft to Firm Clay	0.3	0.6	0.6	-	0.7
		0.45	0.6	0.6	0.7	0.7
		0.6	0.6	0.6	0.6	0.6
50	Stiff to Very Stiff Clay	0.3	0.6	0.6	-	0.7
		0.45	0.6	0.6	0.7	0.7
		0.6	0.6	0.6	0.6	0.6

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Cross Bracing is achieved with 1.2mm Strap. Refer to Connection Details.  
 Cross bracing in the roof is to the purlin nearest to the end wall mullions, where applicable.



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**Bracing**

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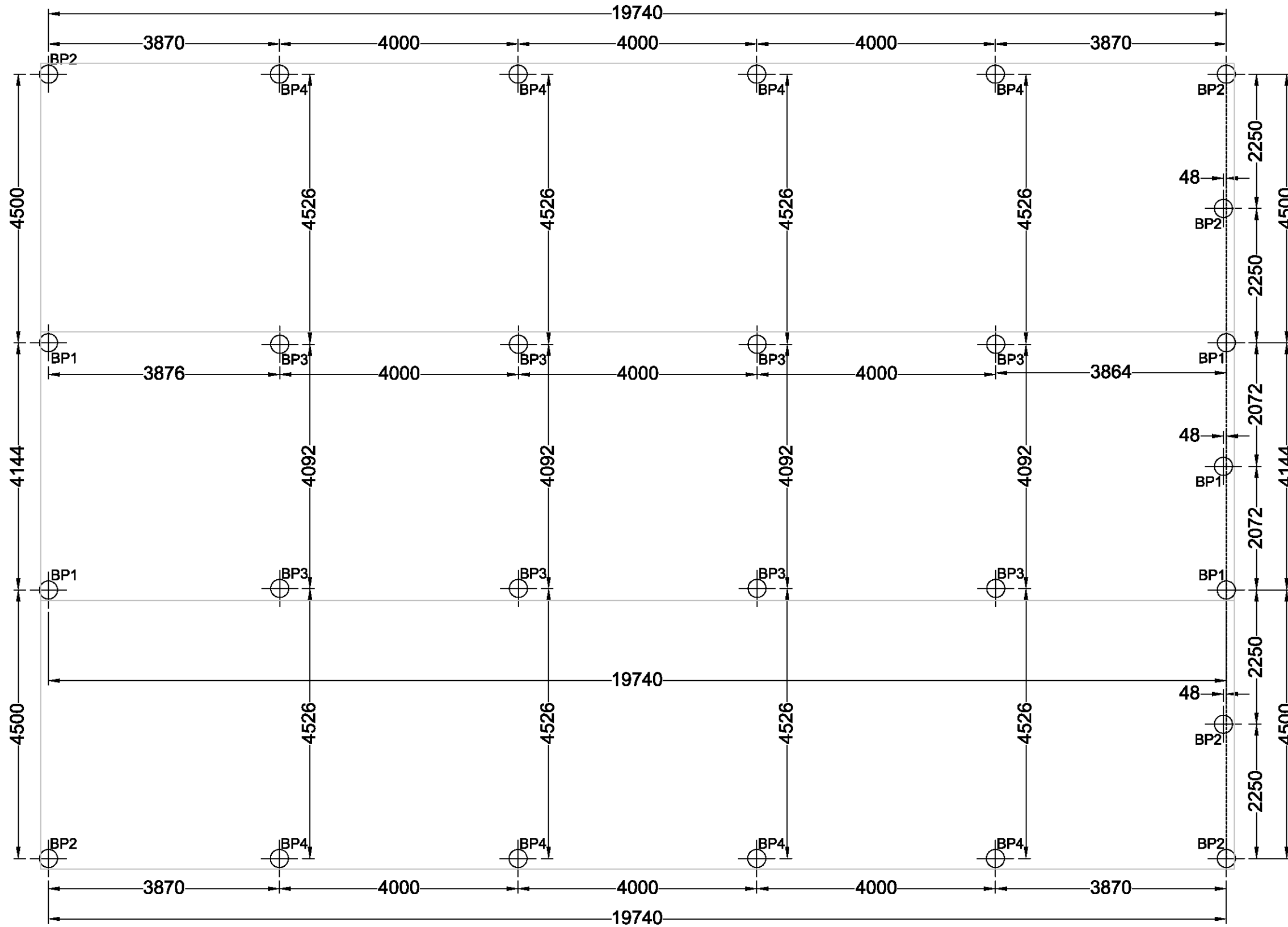
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These dimensions are provided as a guide only. It is the responsibility of the concreter to confirm that all dimensions are correct.  
Refer to Material Specifications Plan for BP dimensions.



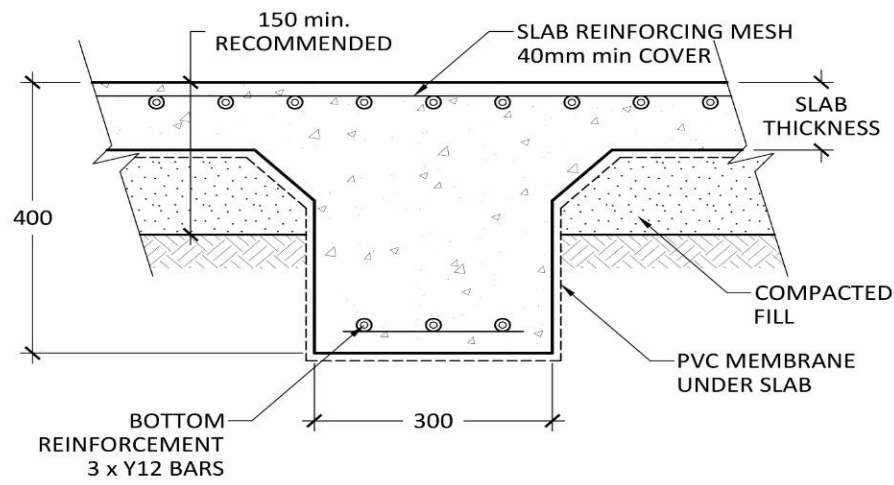
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**Concrete Piers**  
 PIER MEASUREMENT ONLY  
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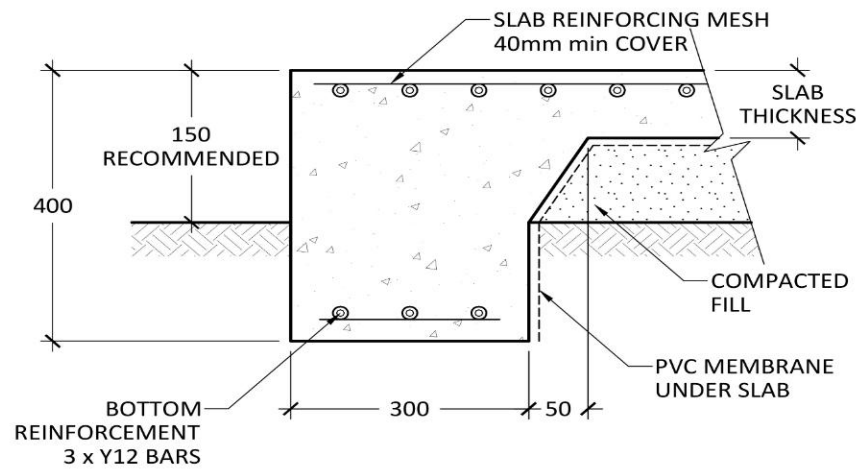
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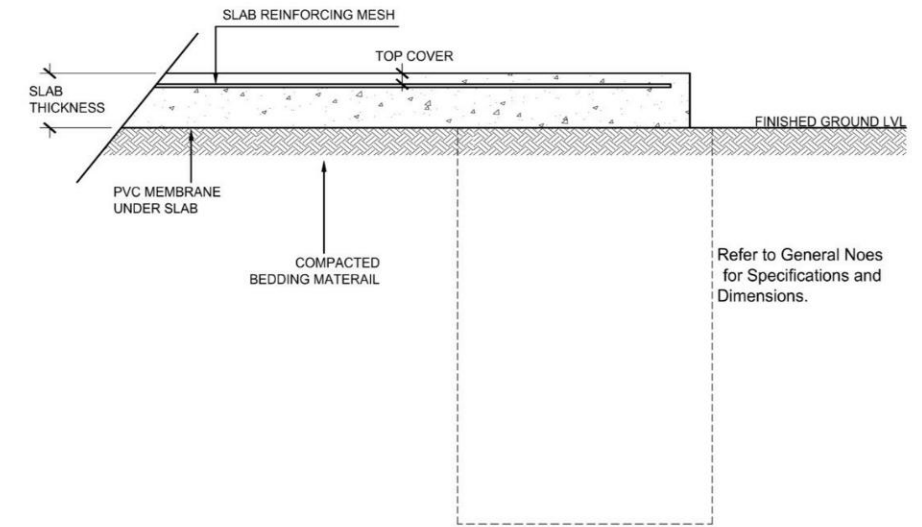
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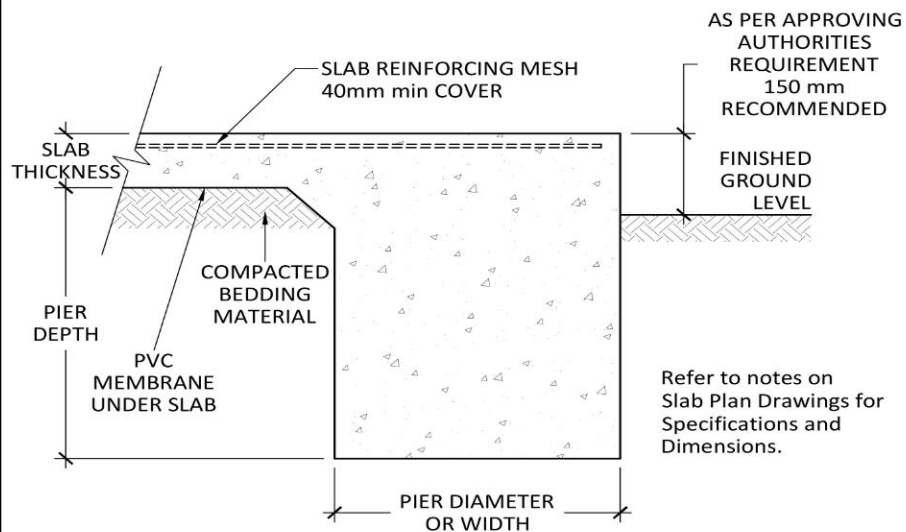
**INTERNAL BEAM**  
(H1 & H2 SOIL TYPE, OPTIONAL A, S & M)



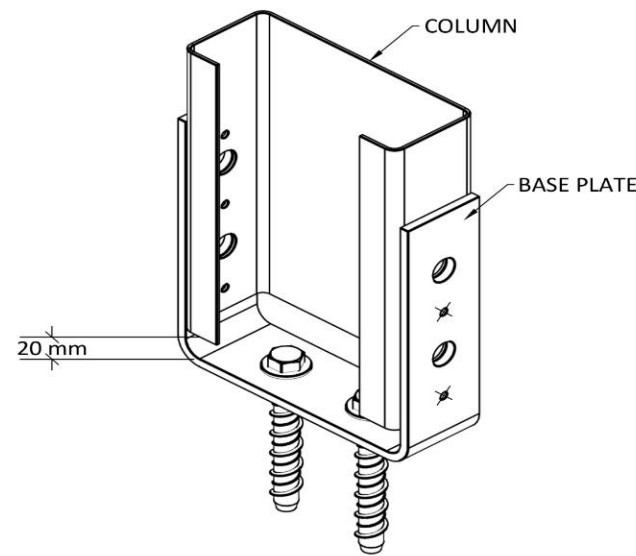
**PERIMETER BEAM**  
(H1 & H2 SOIL TYPE, OPTIONAL A, S & M)



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

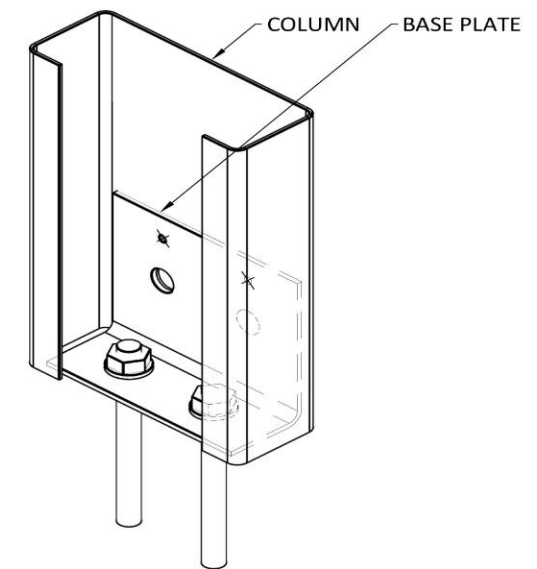


**SLAB AND PIER DETAIL**



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

**C150 COLUMN FIXING**



- FIXING BOLTS - 2 of M12 x 80 TRUEBOLT
- FIXING BOLTS - 2 of M12 x 30
- × FIXING SCREWS - 2 of 14.20 x 22

**C150 MULLION BASE PLATE**

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**Connection Details**

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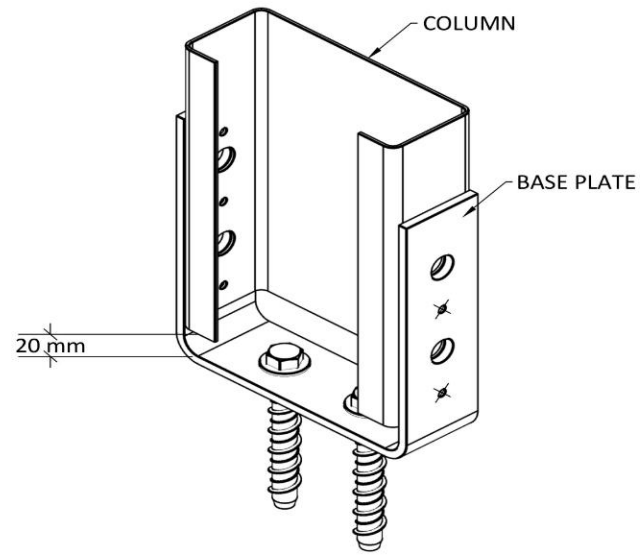
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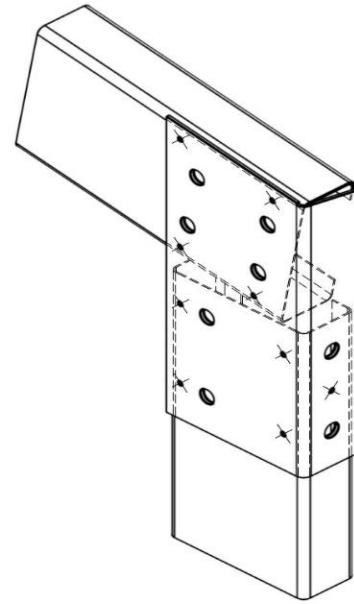
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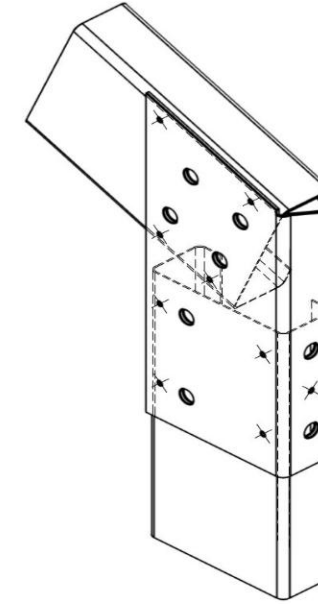




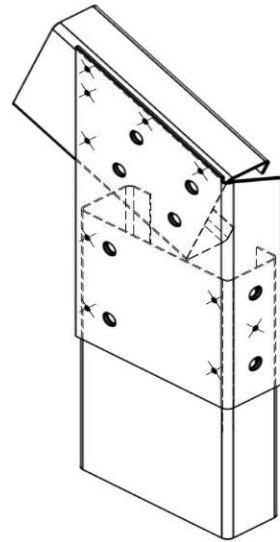
- FIXING BOLTS - 2 of M12 x 100 SCREWBOLT
  - FIXING BOLTS - 4 of M12 x 30
  - × FIXING SCREWS - 4 of 12.24 x 38 Series 500
- C200 COLUMN FIXING**



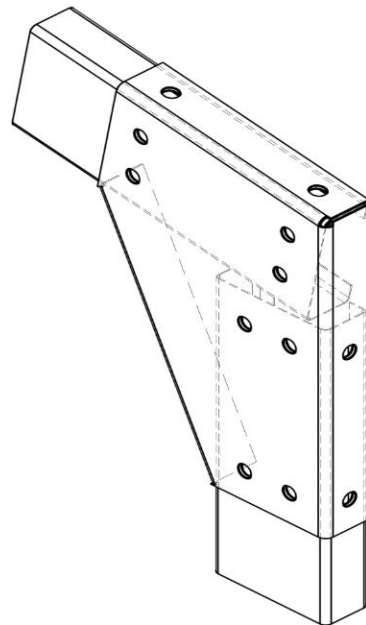
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  - × FIXING SCREWS - 9 of 14.20 x 22
- HAUNCH BRACKET - C150, 10°**



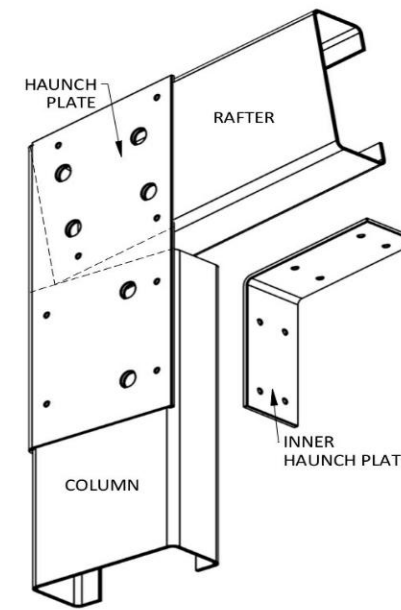
- FIXING BOLTS - 8 of M12 x 30
  - × FIXING SCREWS - 9 of 14.20 x 22
- HAUNCH BRACKET - C150, 22.5°**



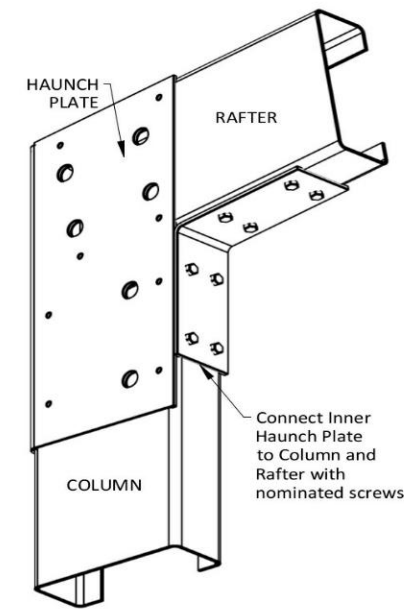
- FIXING BOLTS - 8 of M12 x 30
  - × FIXING SCREWS - 10 of 14.20 x 22
- HAUNCH BRACKET - C200-C150, 22.5°**



- FIXING BOLTS - 12 of M12 x 30 (8.8)
- KNEE HAUNCH BRACKET (HS&HT)**



- × FIXING SCREWS - 8 of 14.20 x 22
- INNER HAUNCH BRACKET - SINGLE RAFTER**



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**Connection Details**  
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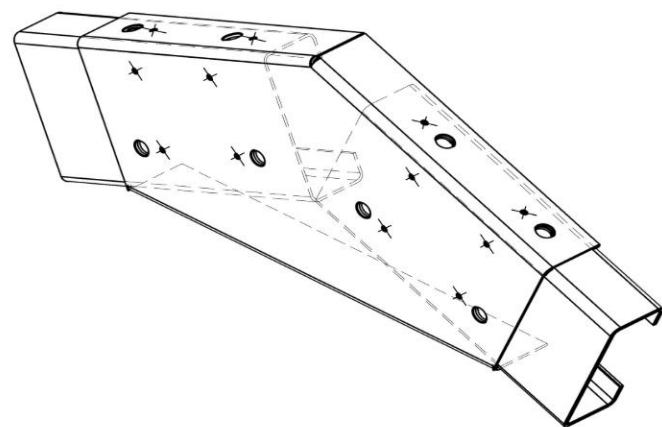
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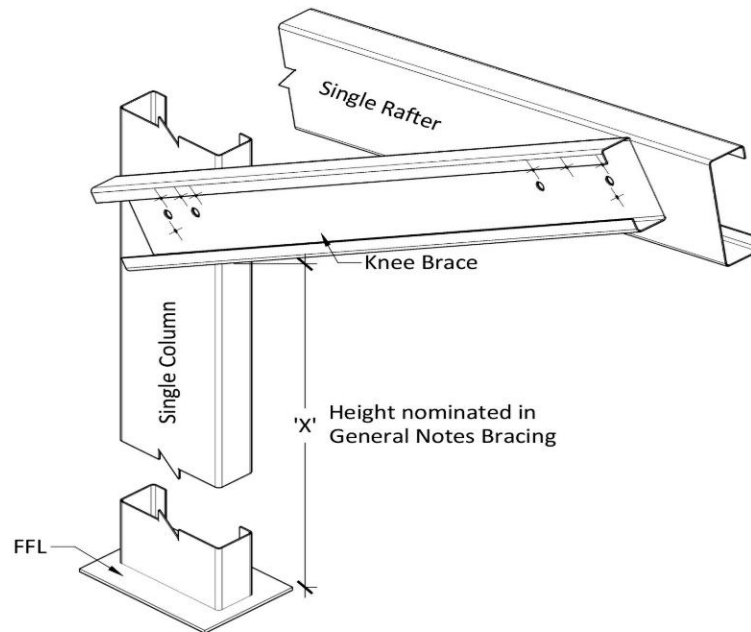
Signature:

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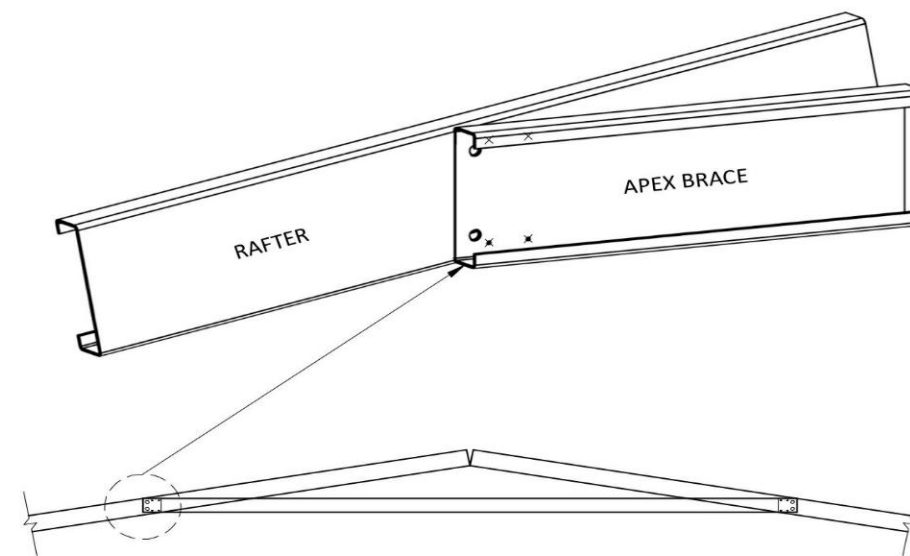
Date: 26/06/21



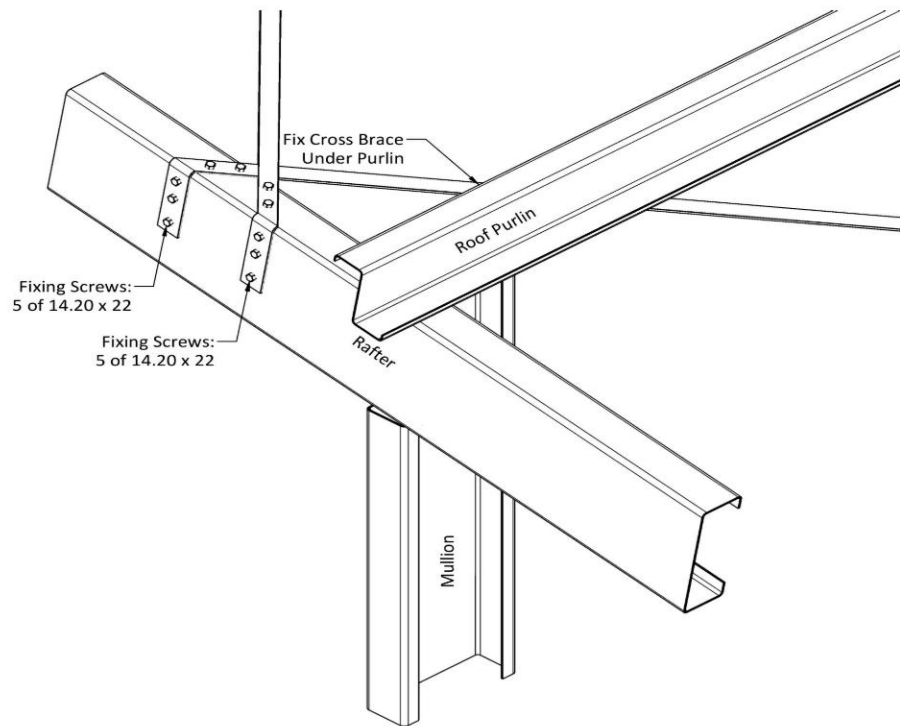
○ FIXING BOLTS - 8 of M12 x 30  
 × FIXING SCREWS - 12 of 14.20 x 22  
**APEX PLATE, C150, 22.5°**



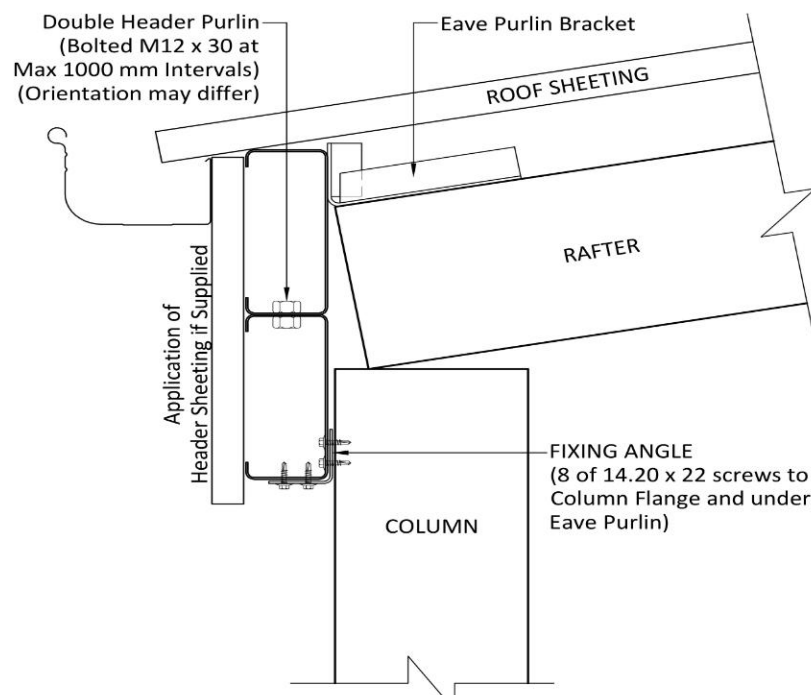
○ FIXING BOLTS - 4 of M12 x 30  
 × FIXING SCREWS - 8 of 14.20 x 22  
**C200 KNEE BRACE FOR SINGLE COLUMN + SINGLE RAFTER**



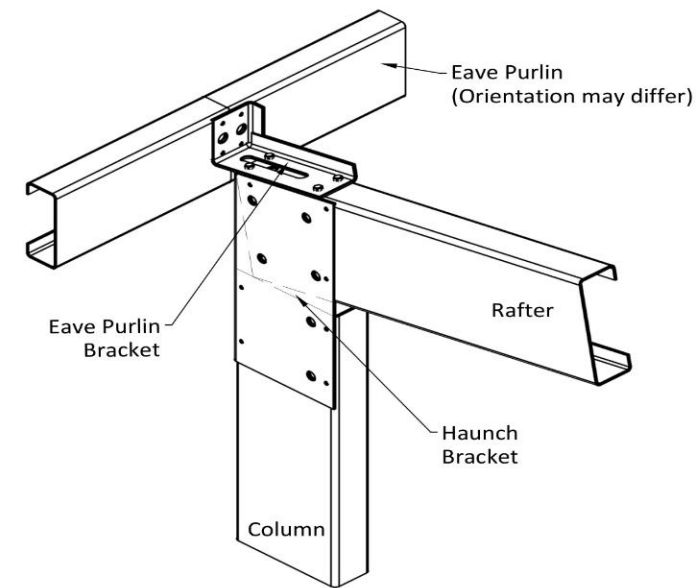
○ FIXING BOLTS - 2 of M12 x 40  
 × FIXING SCREWS - 4 of 14.20 x 22  
**APEX BRACE FOR SINGLE RAFTER - C150**



**BRACING CONNECTION**



**DOUBLE HEADER PURLIN CONNECTION - OPEN BAYS**



× FIXING SCREWS - 4 of 14.20 x 22  
**EAVE PURLIN BRACKET TO RAFTER**

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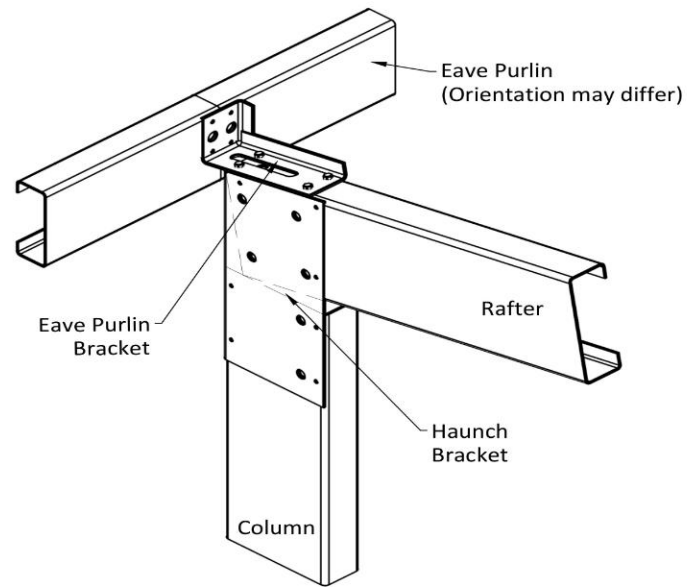
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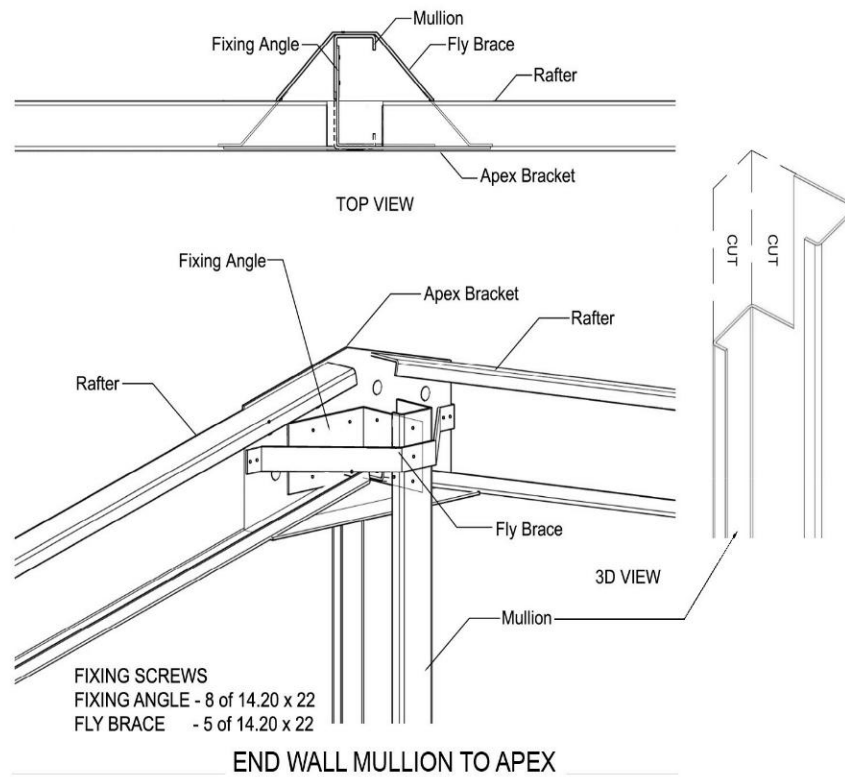
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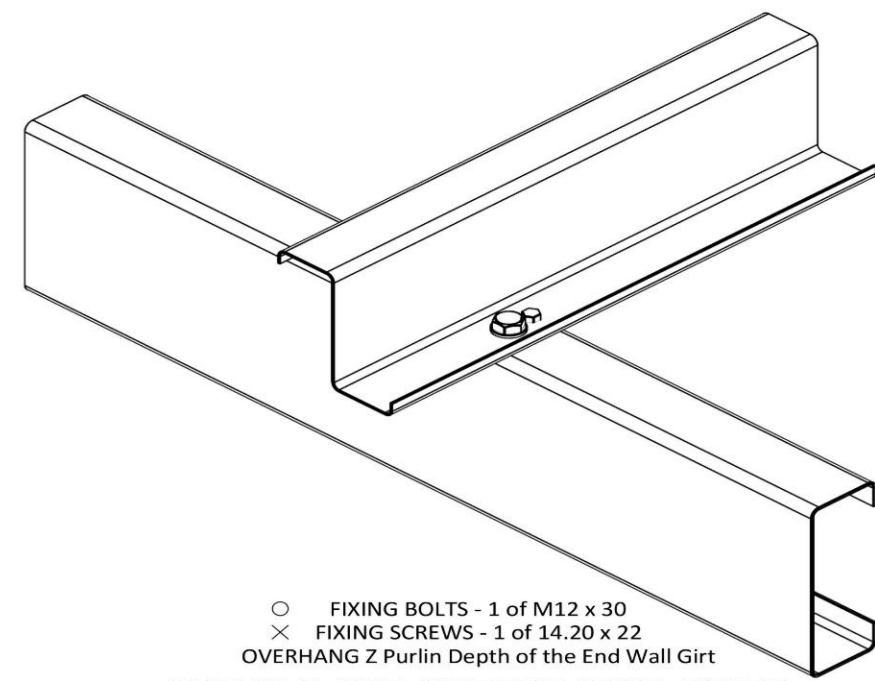


× FIXING SCREWS - 4 of 14.20 x 22  
**EAVE PURLIN BRACKET TO RAFTER**

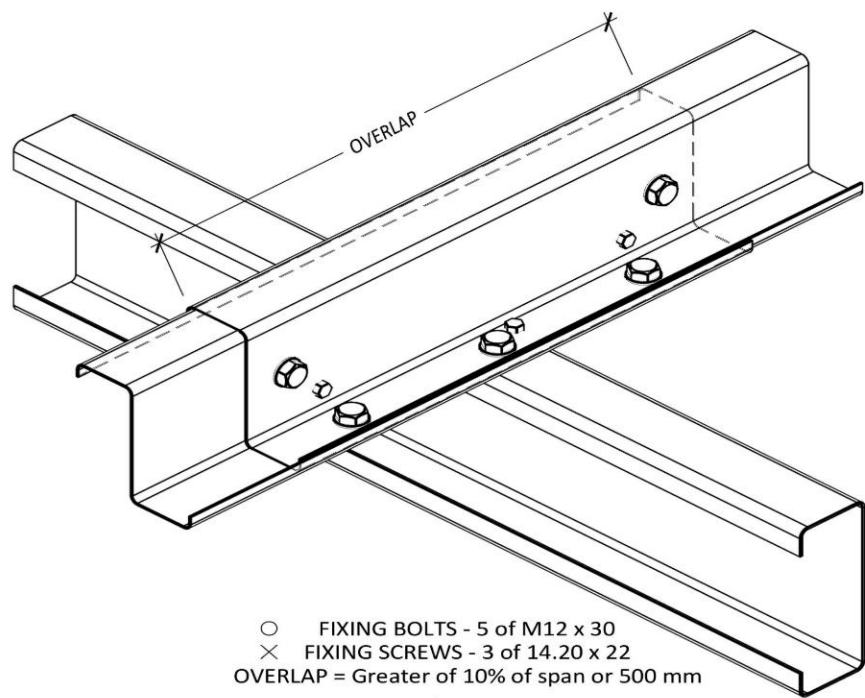


FIXING SCREWS  
 FIXING ANGLE - 8 of 14.20 x 22  
 FLY BRACE - 5 of 14.20 x 22

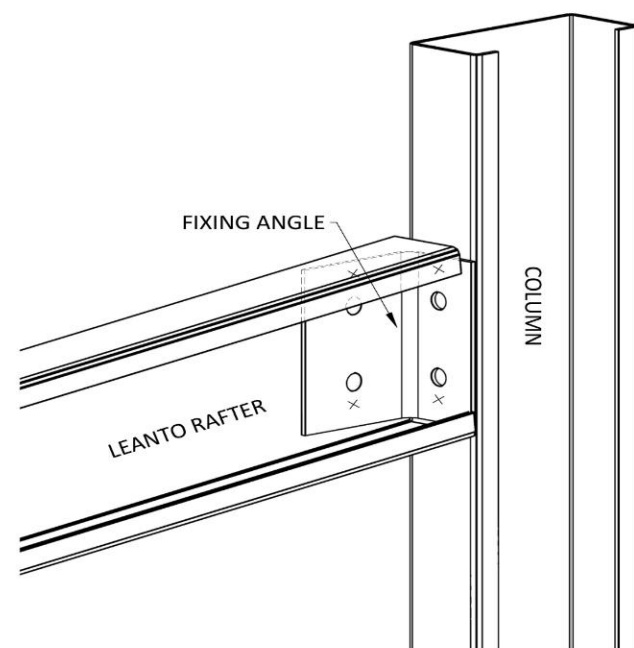
**END WALL MULLION TO APEX**



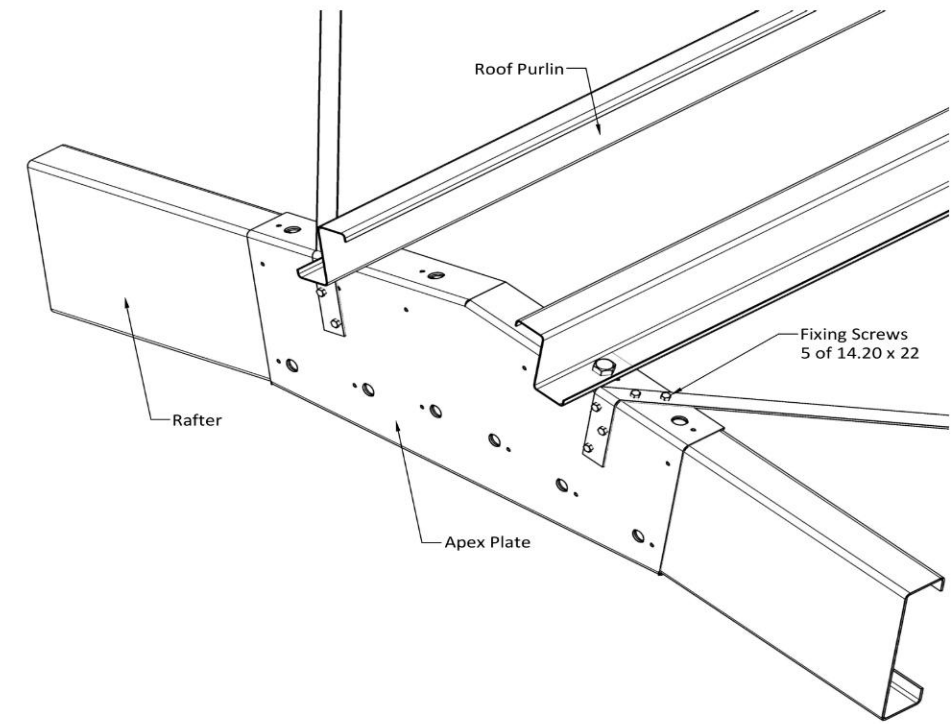
○ FIXING BOLTS - 1 of M12 x 30  
 × FIXING SCREWS - 1 of 14.20 x 22  
 OVERHANG Z Purlin Depth of the End Wall Girt  
**PURLIN & SIDE GIRTS END WALL FIXING  
 Z PURLIN - SINGLE COLUMN OR RAFTER**



○ FIXING BOLTS - 5 of M12 x 30  
 × FIXING SCREWS - 3 of 14.20 x 22  
 OVERLAP = Greater of 10% of span or 500 mm  
**PURLIN/GIRT FIXING  
 SINGLE C SECTION COLUMNS OR RAFTERS**



○ FIXING BOLTS - 4 of M12 x 30  
 × FIXING SCREWS - 4 of 14.20 x 22  
**LEANTO INNER CONNECTION DETAIL**



**BRACING CONNECTION AT APEX**

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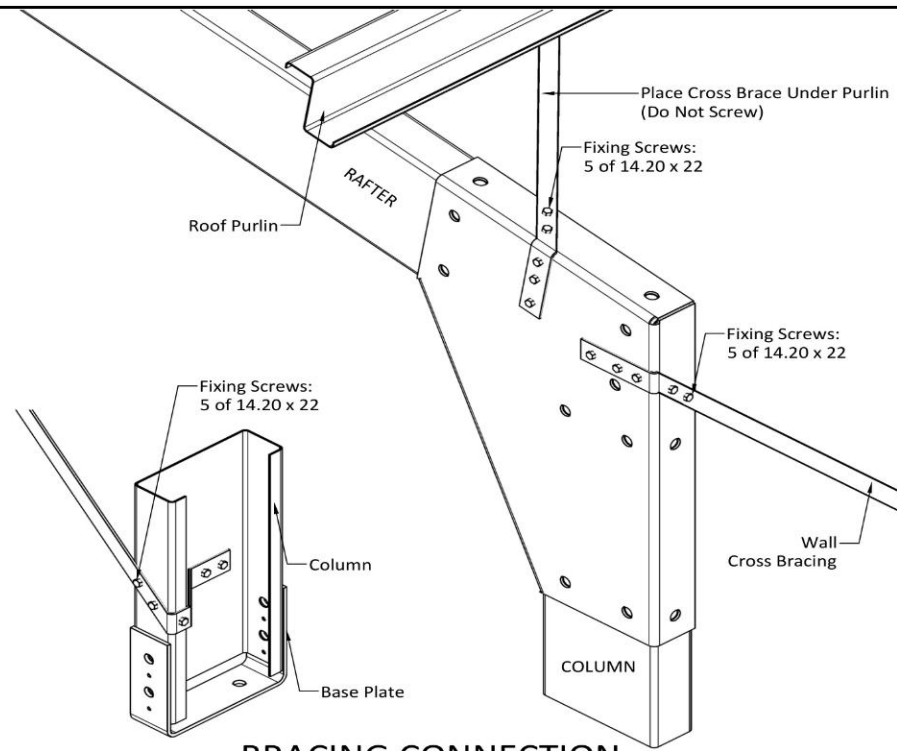
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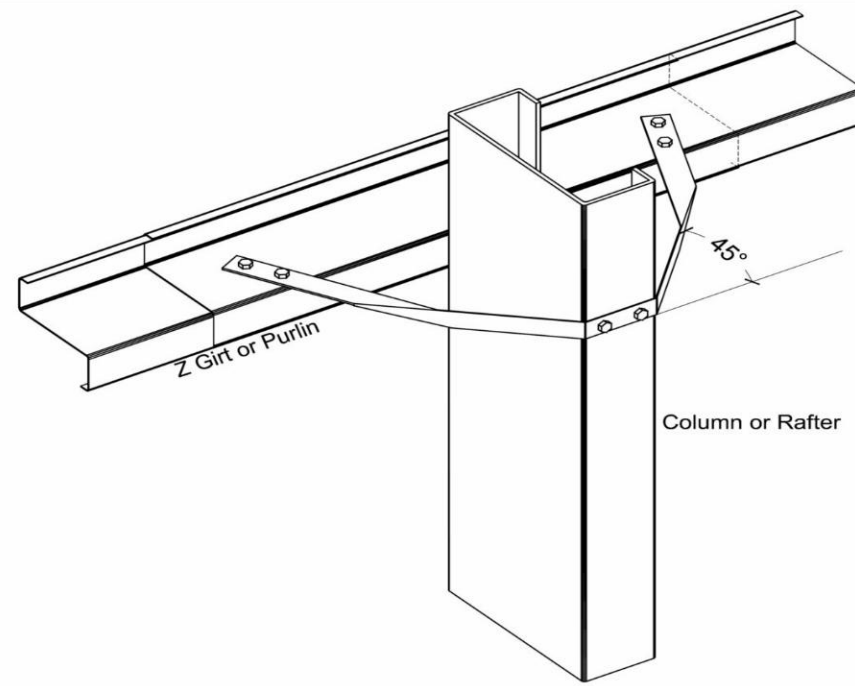
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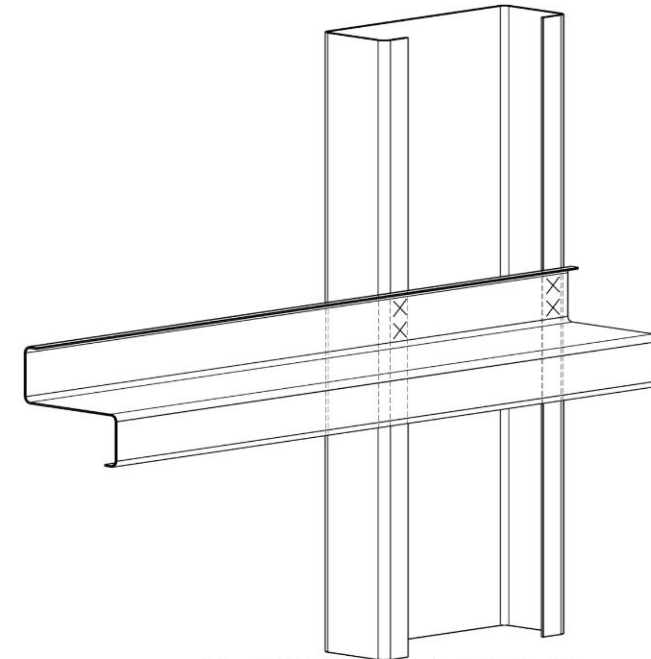
Date: 26/06/21



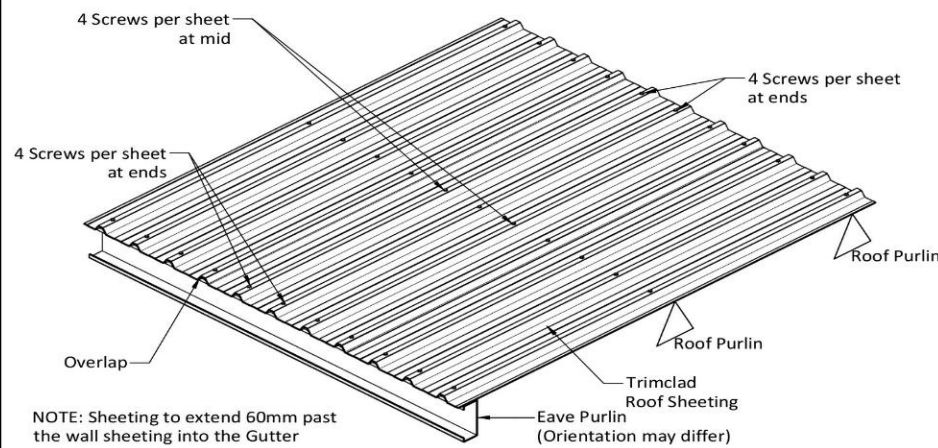
**BRACING CONNECTION**



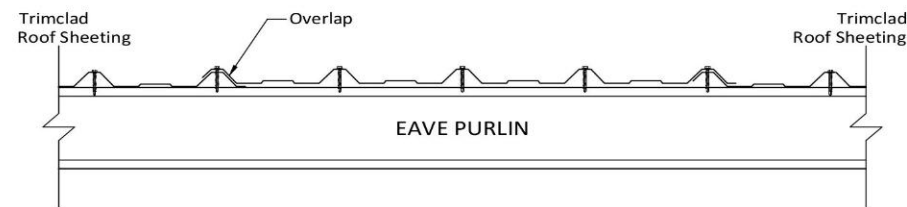
**FIXING SCREWS - 6 of 14.20 x 22**  
**FLY BRACING**



**FIXING SCREWS - 4 of 14.20 x 22**  
**GIRT FIXING - Z**

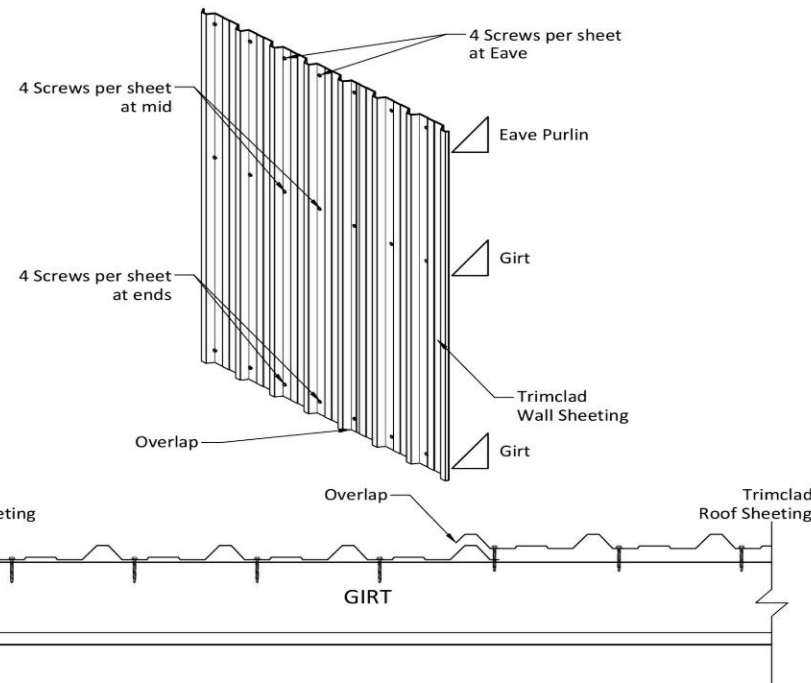


NOTE: Sheeting to extend 60mm past the wall sheeting into the Gutter



Roofing Screws - 12.14 x 45 Hex Seal High Grip with Cyclonic Washer

**TRIMCLAD ROOF SHEET FIXING**



Wall Screws - 10.16 x 16 Hex

**WALL SHEETING CONNECTION DETAILS**

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**Connection Details**

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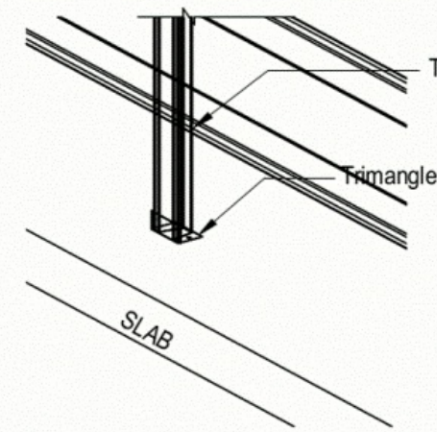
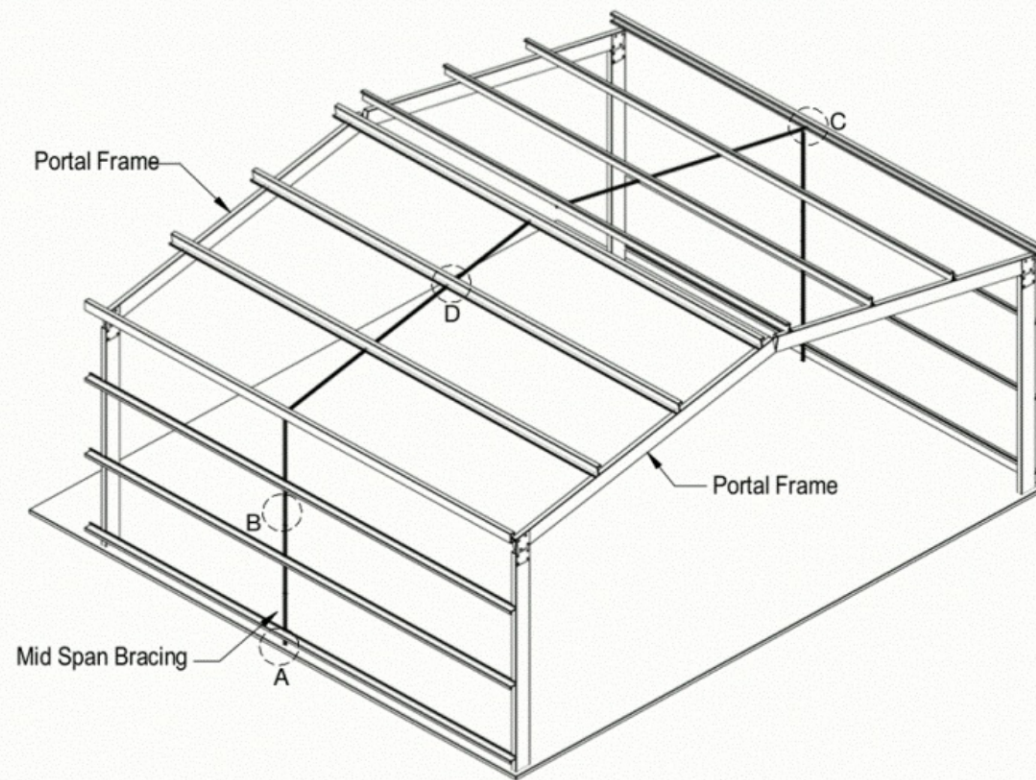
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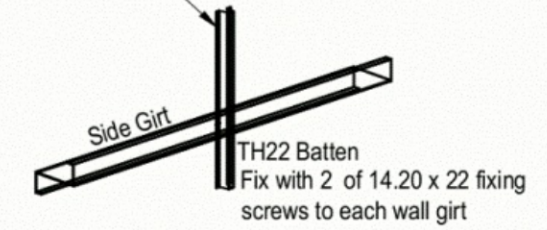
Ronaldson

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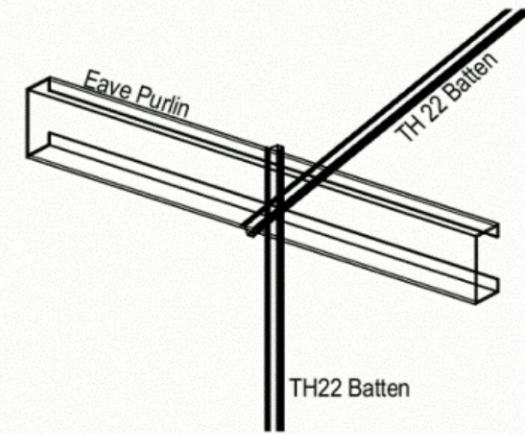
**Detail at A**

Fix to bracket with 2 of 14.20 x 22 fixing screws  
 Fix to concrete with 2 x M8-40 Dynabolts  
 PIERS ONLY FINISH @BOTTOM GIRT



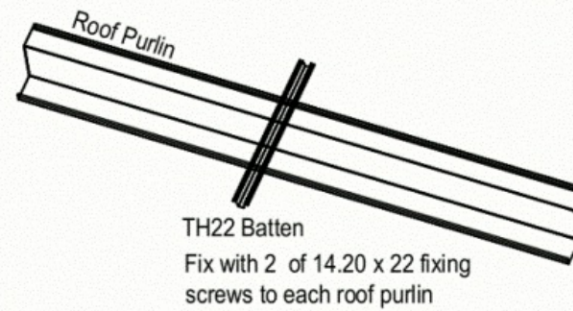
**Detail at B**

TH22 Batten  
 Fix with 2 of 14.20 x 22 fixing screws to each wall girt



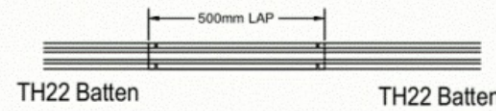
**Detail at C**

Fix Rafter batten with 2 of 14.20 x 22 screws to Eave Purlin  
 Fix vertical batten with 2 of 14.20 x 22 screws to each eave purlin lip

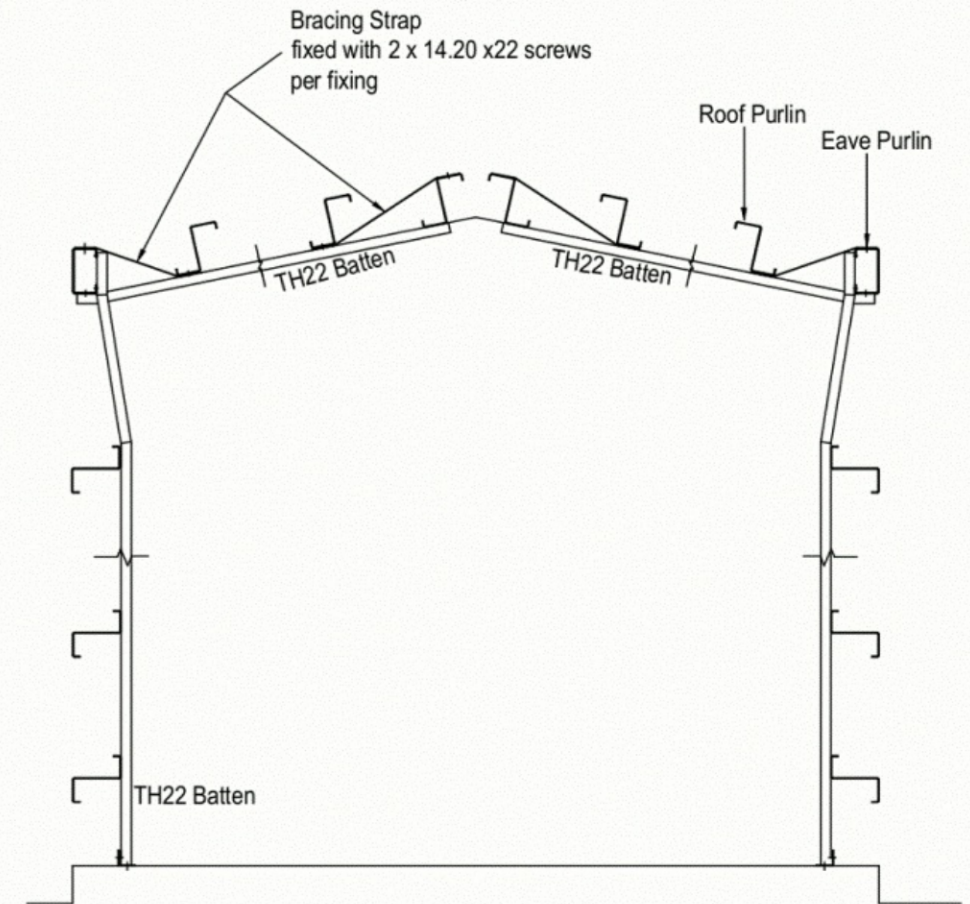


**Detail at D**

TH22 Batten  
 Fix with 2 of 14.20 x 22 fixing screws to each roof purlin



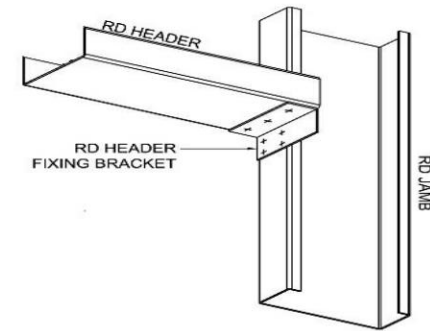
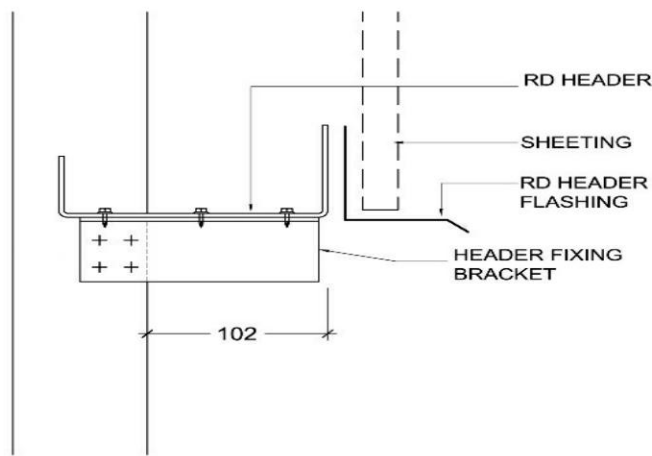
**Batten Overlap**



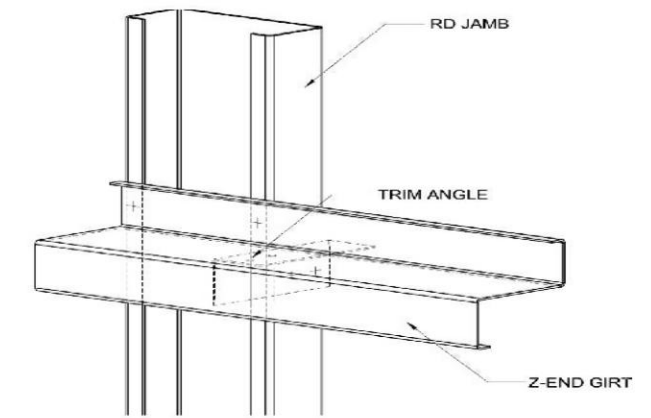
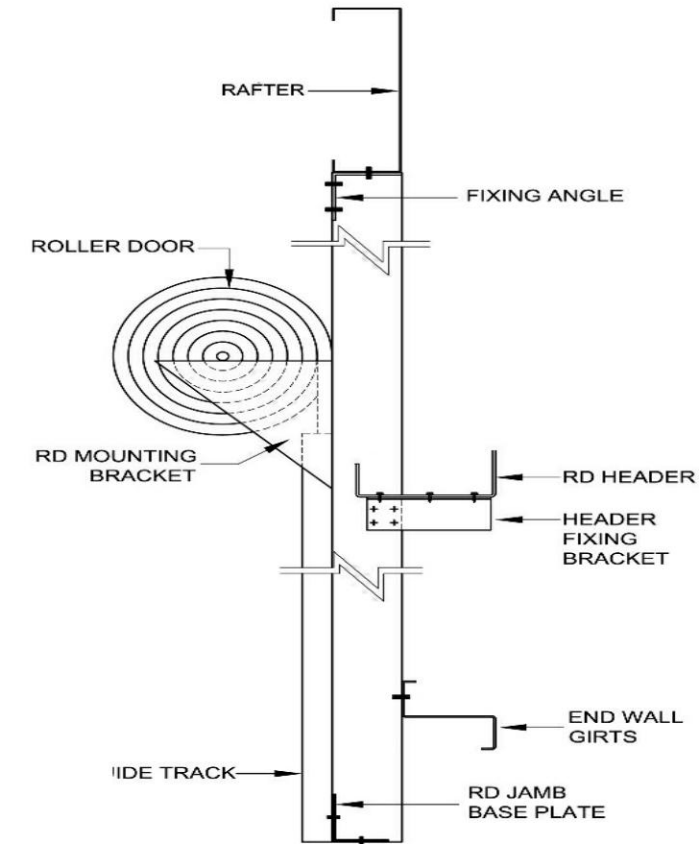
Note: Fix Bracing Strap First, then fix batten over bracing strap to maintain line.

Note: Mid Span Bracing is located midbay equidistant from each portal frame.  
 To extend battens, Lap battens 50mm with 4 screws

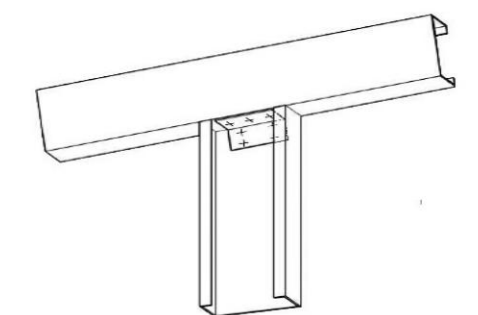
Purchaser Name: Robert Stutsel		<b>Connection Details</b> Not to Scale Page 6 of 7 © Copyright Steel IP Pty Ltd	Seller: Wide Span Sheds Pty Ltd Wide Span Sheds Pty Ltd Phone: 07 5657 8888 Fax: 07 5657 8899 Email: admin@sheds.com.au	Apex Engineering Group PTY LTD ACN 832 588 562 MIE Aust. (Registered NER Structural) 5276680 QLD: RPEQ No. 24223; TAS: 185770492; VIC: EC67493; N.T.: 303557ES; Practising Professional Structural & Civil Engineers		
Site Address: 426 The Driftway Londonderry NSW 2753 Australia				Signature:	J. Ronaldson	
Drawing # WSS212462 - 8	Print Date: 26/06/21			Date: 26/06/21		



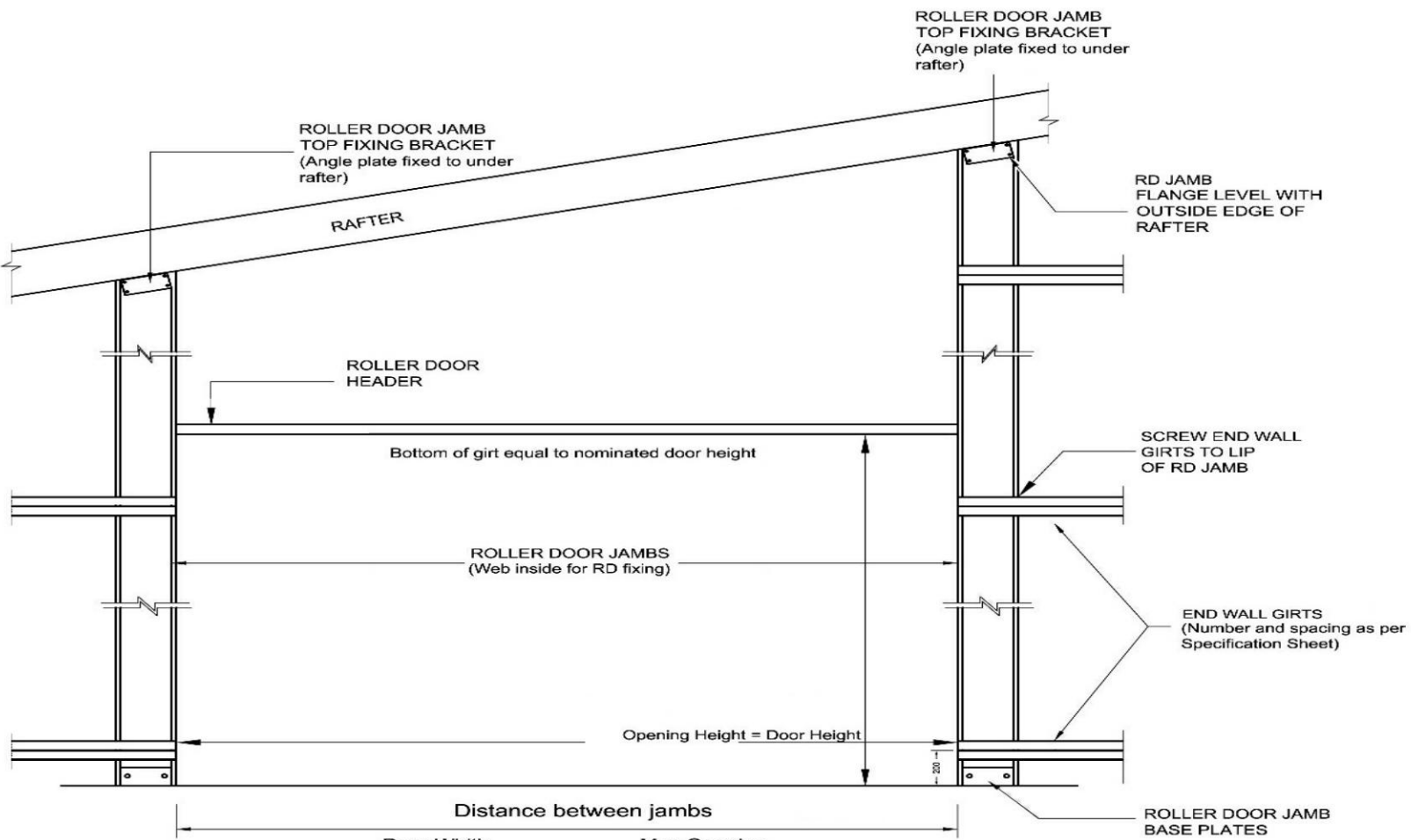
× FIXING SCREWS - 7 of 14.20 x 22  
GIRT FIXING TO PA DOOR JAMB  
RD HEADER FIXING BRACKET



× FIXING SCREWS - 2 of 14.20 x 22 TO JAMB LIPS  
- 4 of 14.20 x 22 TO TRIM ANGLE  
GIRT FIXING TO ROLLER DOOR JAMBS



○ FIXING BOLTS - NIL  
× FIXING SCREWS - 7 x 14.20 x 22  
ROLLER DOOR JAMB TOP FIXING



<b>Door Width</b> ≤ 3.1m > 3.1m or ≤ 5.1m	<b>Max Opening</b> Door width - 50mm Door width - 100mm
-------------------------------------------------	---------------------------------------------------------------

× FIXING SCREWS - 2 of 14.20 x 22  
○ FIXING BOLTS - 2 of M12 x 30 - FOR C150 & C200 JAMBS  
○ FIXING BOLTS - 2 of M16 x 30 - FOR C250 & C300 JAMBS  
2 of M12 X 75 DYNABOLTS - FOR C150 & C200 JAMBS  
2 of M16 x 110 DYNABOLTS - FOR C250 & 300 JAMBS  
ROLLER DOOR JAMB BASE PLATE

## ROLLER DOOR DETAILS

(Door under 4.0m)  
Gable end wall ONLY

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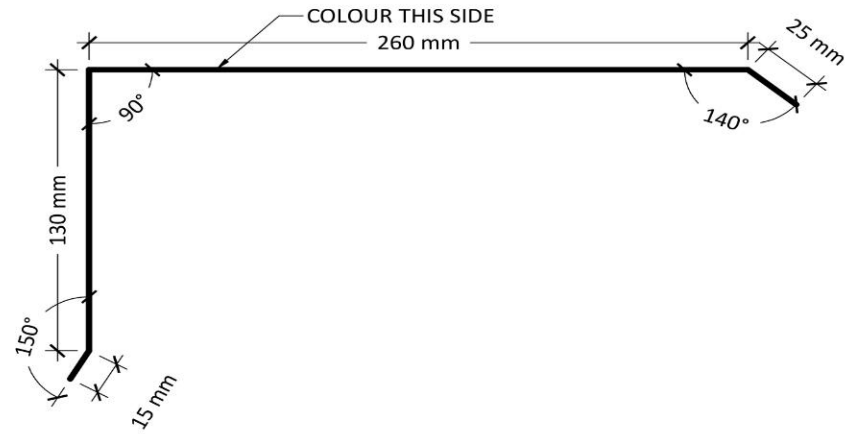
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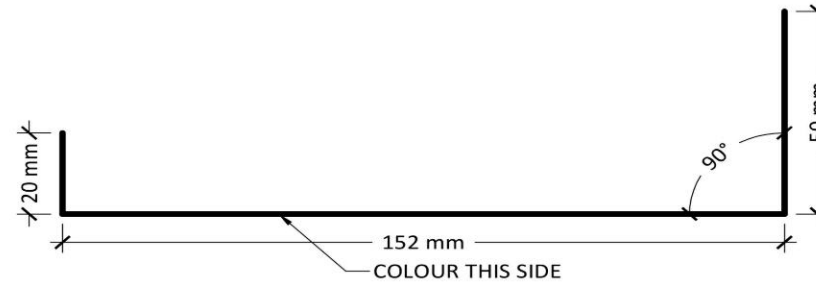
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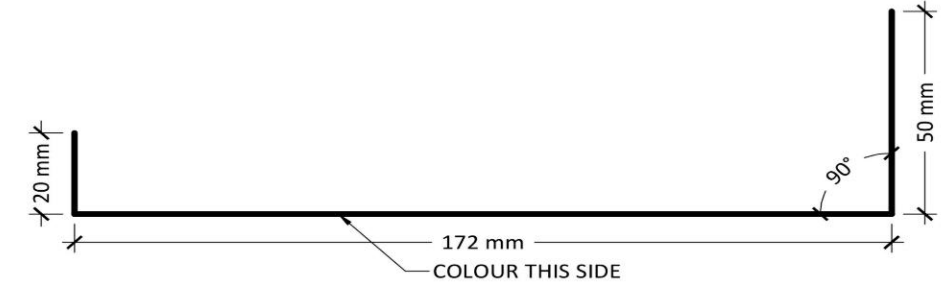
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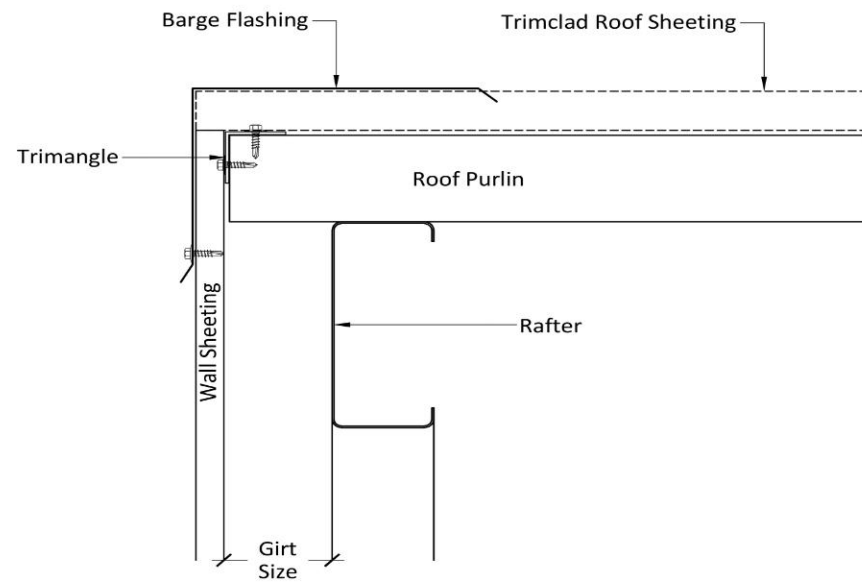
Barge Capping - Trimclad  
XF11



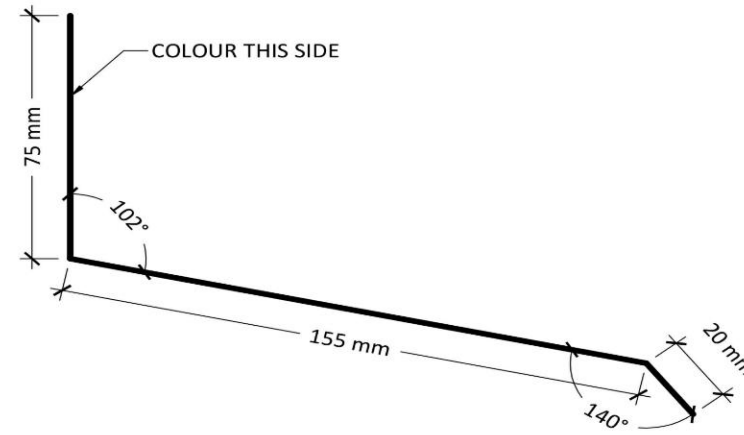
RD Head Cover Flashing  
XF117



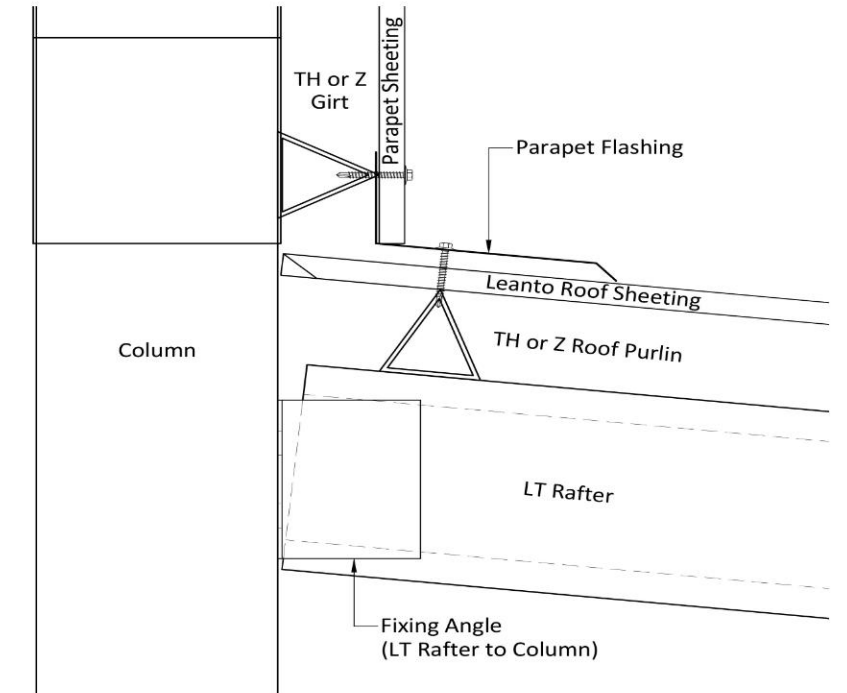
RD Head Cover Flashing  
XF118



Barge Flashing XF11 - Sheeting Gable



Parapet Flashing - 12°  
XF15



Parapet Flashing XF15

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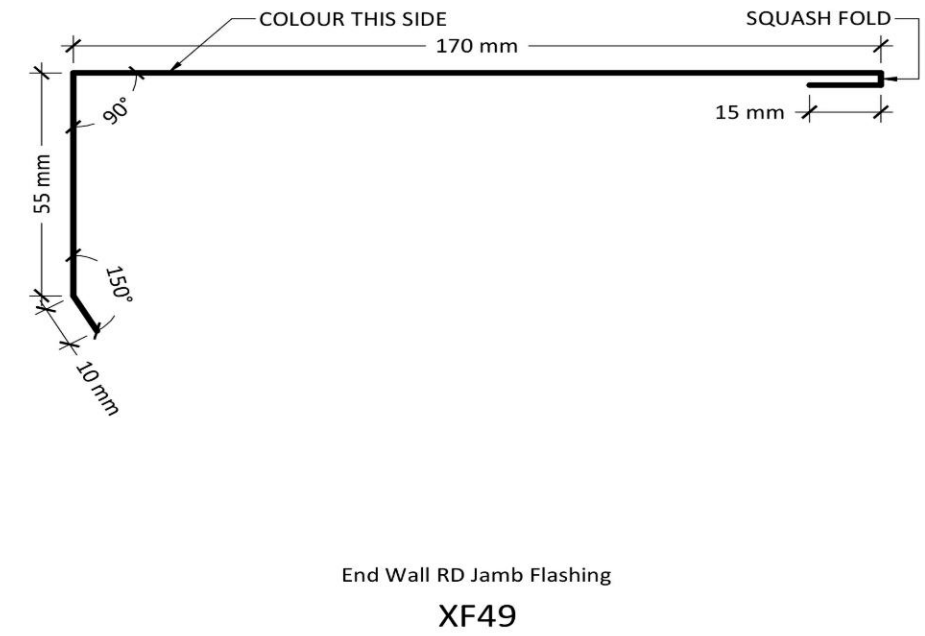
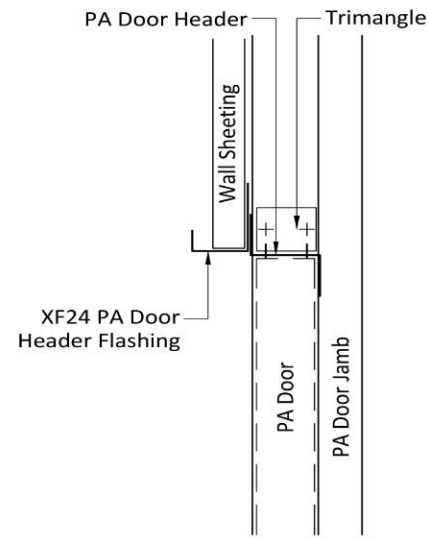
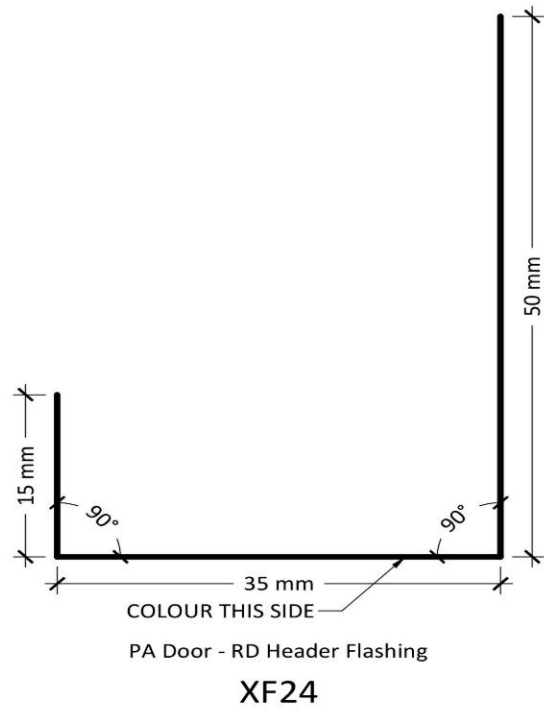
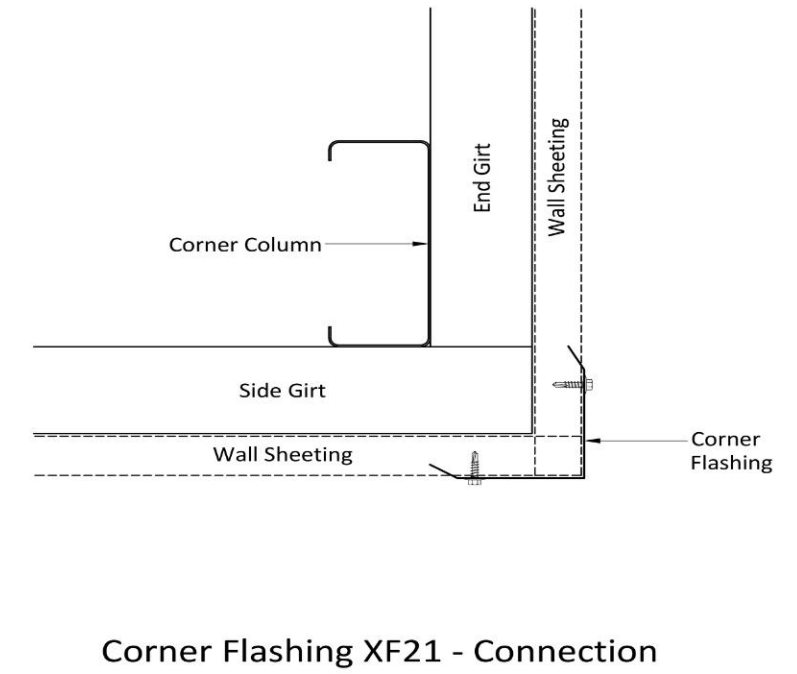
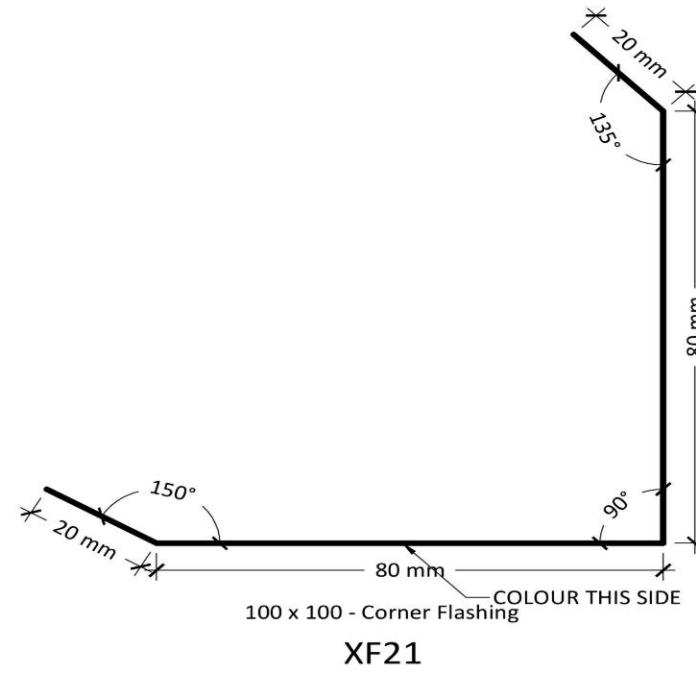
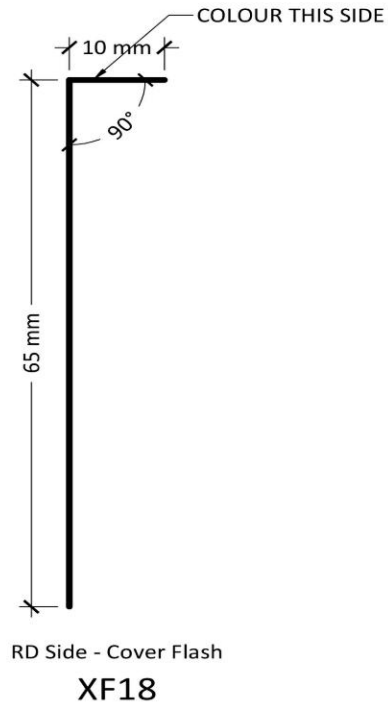
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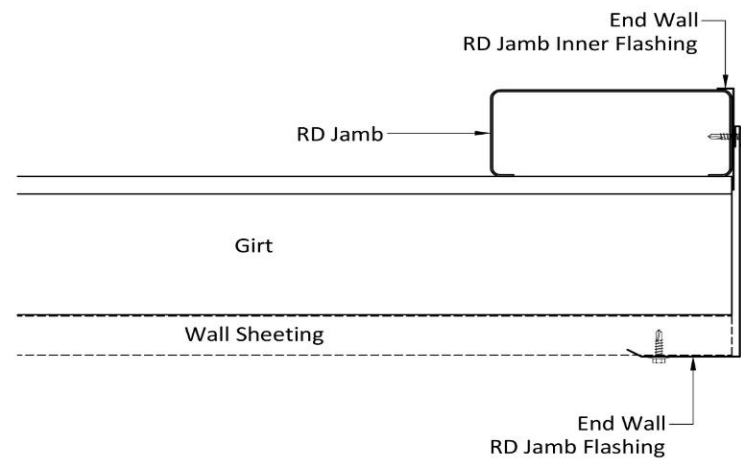
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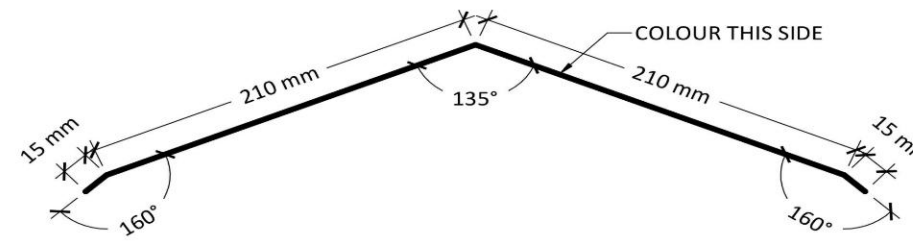
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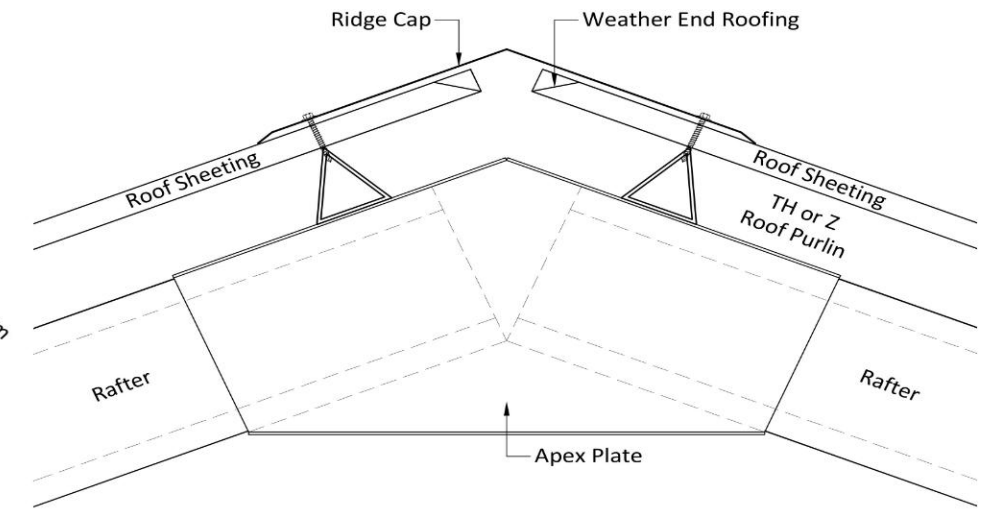




End Wall RD Jamb Flashing XF49/18



22.5° Ridge Flashing (225)  
XF86



Ridge Cap - XF86

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