

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 Earlier plans provided may have become outdated due to engineering changes and should not be used.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

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 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.

\* 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 Jambes to be a minimum size as below:  
C25024 - 450mm dia x 650mm deep, centered to the C Section  
C15024 - 300mm dia x 375mm 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 Jambes to be a minimum size as below:  
C25024 - 450mm dia x 850mm deep, centered to the C Section  
C15024 - 300mm dia x 500mm 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 is achieved with 1.6mm 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.

\* Where windows/GSD are placed in any bay where cross bracing is shown, then

Revision	Date	Initial			General Notes	Seller: THE Shed Company Mudgee Name: S & K Lincoln Pty Ltd Phone: (02) 6372 7755 Fax: (02) 6372 7700 Email: mudgeeadmin@theshedcompany.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  Signature: [Redacted] John Ronaldson Date: 24/01/24
			Purchaser Name: Ethan Callaghan				
			Site Address: 220 Broadhead Rd Spring Flat NSW 2850 Australia				
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- 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**

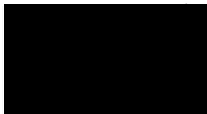
- \* Unless otherwise nominated, all bolts are grade 4.6
- \* All tensioned bolts shall be tensioned using the part turn method (refer to AS4100). For the erector, full details are in the construction manual.

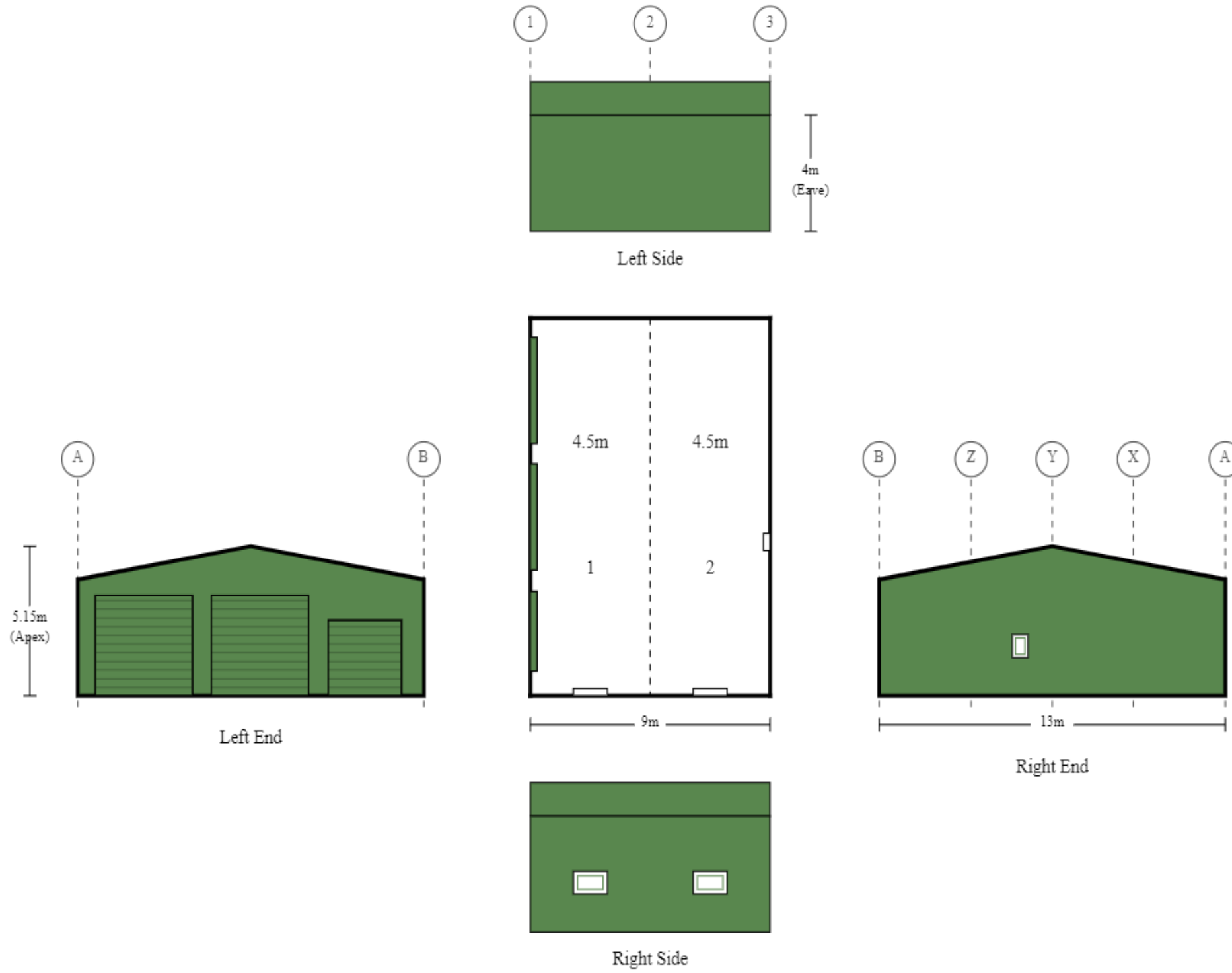
**ROLLER DOORS**

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 4.
- \* All purlin material has Z350 zinc coating with minimum strength of 450MPa.

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Drawing # TMJD240003 - 3

Print Date: 24/01/24

**Layout**  
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Date: 24/01/24

**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	13	9	10	4	A - B	1 - 3

**Portal Frame Elements**

Grid / Portal Number		1	2	3
Columns	A	C25019	C30024	C25019
	B	C25019	C30024	C25019
Rafters	A - Apex	C25024	C30024	C25024
	Apex - B	C25024	C30024	C25024
End Wall Mullions	X	-	-	C15019
	Y	-	-	C15019
	Z	-	-	C15019
Apex Braces	Apex	-	C25024 @ 3.9m	-

**Bay Section Elements**

Grid / Bay Number		1	2	Maximum
Bay Widths		4.5	4.5	
Roof Purlins (refer to Purlin And Girt Plan)		Z100	Z100	
Roof Purlin Bridging (Rows)	A - Apex	YES (1)	YES (1)	
	Apex - B	YES (1)	YES (1)	
Roof Purlin Spacing (End)	A - Apex	0.9	0.9	0.900
	Apex - B	0.9	0.9	0.900
Roof Purlin Spacing (Internal Spans)	A - Apex	1.155	1.155	1.200
	Apex - B	1.155	1.155	1.200
Eave Purlin	A	XC15012	XC15012	
	B	XC15012	XC15012	
Side Girts (refer to Purlin And Girt Plan)		Z150	Z150	
Side Girts Spacing (End)	A	1.257	1.257	1.700
	B	1.257	1.257	1.700
Side Girts Spacing (Internal)	A	1.257	1.257	1.700
	B	1.257	1.257	1.700

**End Bay Section Elements**

Grid / Portal Number		1	3	Maximum
End Girts (refer to Purlin And Girt Plan)		Z100	Z100	
End Girts Spacing (End)	A - B	1.257	-	1.700
	A - X	-	1.257	1.700
	X - Y	-	1.257	1.700
	Y - Z	-	1.257	1.700
	Z - B	-	1.257	1.700
End Girts Spacing (Internal)	A - B	1.257	-	1.700
	A - X	-	1.257	1.700
	X - Y	-	1.257	1.700
	Y - Z	-	1.257	1.700
	Z - B	-	1.257	1.700
Roller Door Header	A - B	HEADER3, HEADER2	-	
	A - X	-	-	
	X - Y	-	-	
	Y - Z	-	-	
	Z - B	-	-	
Roller Door Jamb	A - B	C25024, C15024	-	
	A - X	-	-	

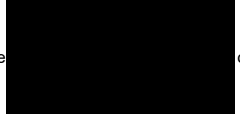
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**Specification Sheet**

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Signature:  John Ronaldson  
Date: 24/01/24

**MATERIAL SPECIFICATIONS**

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

**End Bay Section Elements (Continue)**

Grid / Portal Number	1	3	Maximum
X - Y	-	-	
Y - Z	-	-	
Z - B	-	-	

**Roller Door & PA Door**

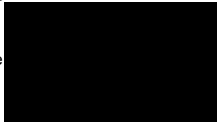
Door Location	LeftEnd 1	LeftEnd 1	LeftEnd 1
Roller Door Size	3.449x3.65	3.449x3.65	2.6x2.75
Roller Door Header	HEADER3	HEADER3	HEADER2
Roller Door Jambs	C25024	C25024	C15024
Roller Door Clip Config	0 clip	0 clip	0 clip
Roller Door Manufacturer	TAUREAN	TAUREAN	TAUREAN

**Cladding Elements**

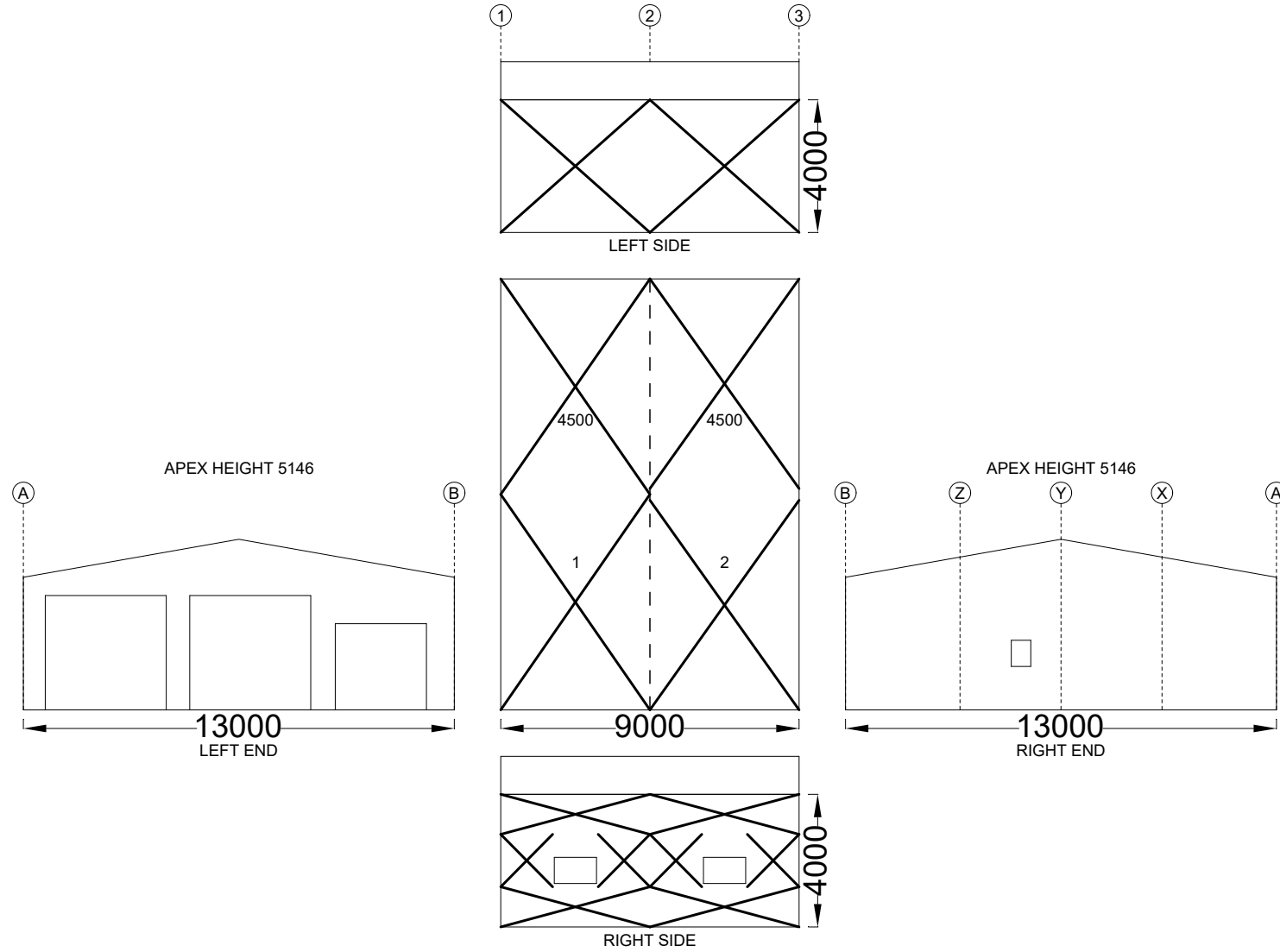
Category	Colour	Product
Roof Sheeting	COLORBOND® steel	CORODEK® 0.42 BMT (0.47TCT)
Roof Flashings	COLORBOND® steel	BlueScope 0.55 BMT
Wall Sheeting	COLORBOND® steel	CORODEK® 0.42 BMT (0.47TCT)
Wall Flashing	COLORBOND® steel	BlueScope 0.55 BMT

**Pier Sizes**

Adhesion (kPa)	Soil Description	Diameter (m)	Depth (m) - with Slab	
			BP1	BP2
0	Sandy Soil	0.3	-	-
		0.45	1.1	-
		0.6	0.8	1.1
25	Soft to Firm Clay	0.3	-	-
		0.45	0.9	-
		0.6	0.8	1
50	Stiff to Very Stiff Clay	0.3	-	-
		0.45	0.8	-
		0.6	0.8	1

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			Drawing # TMUD240003 - 4	Print Date: 24/01/2024			

Cross Bracing is achieved with 1.6mm Strap. Refer to Connection Details.  
 Bracing around windows cannot be relocated. The windows must remain in the fixed location that has be specified where bracing is present.



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**Bracing**

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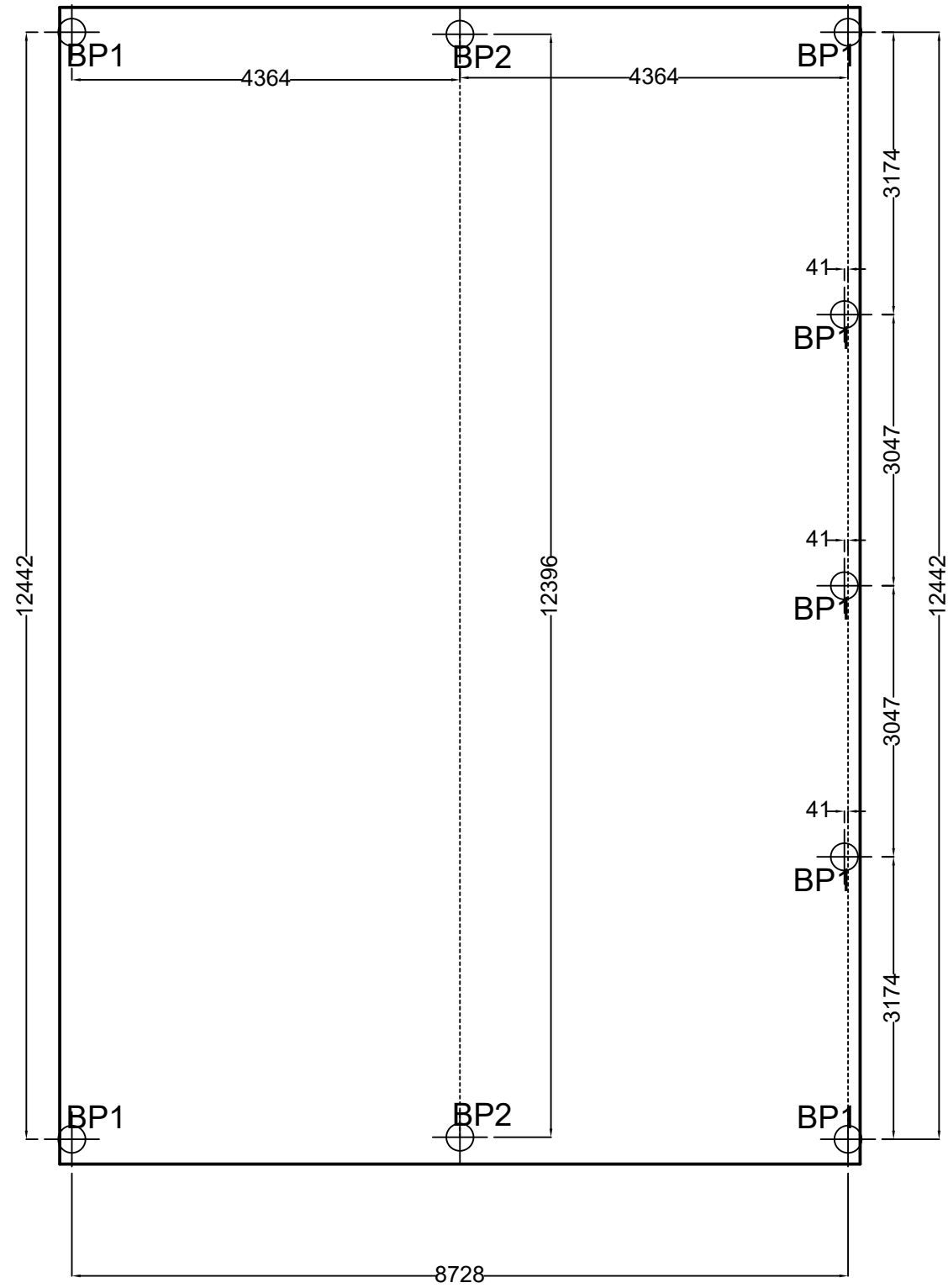
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 Date: 24/01/24

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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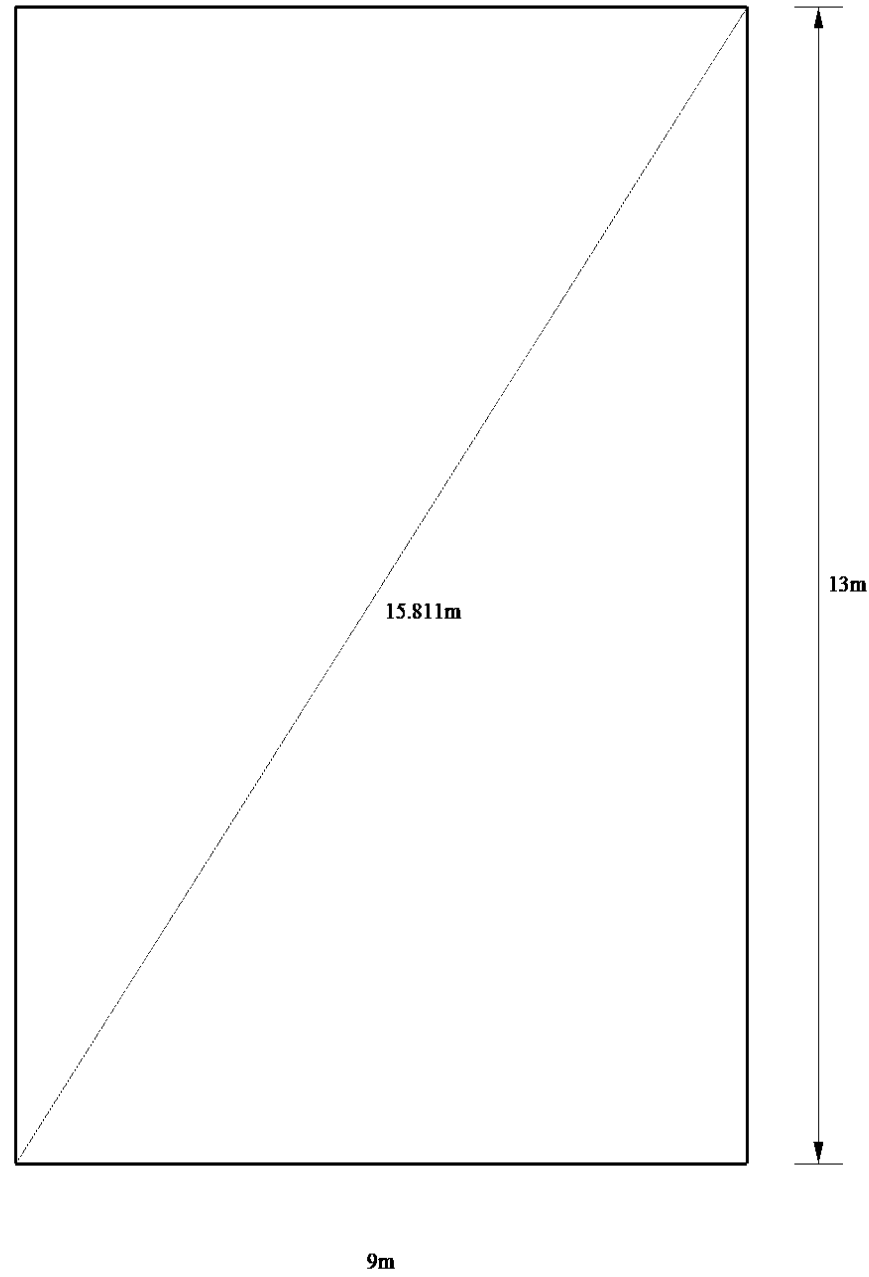
**Concrete Piers**  
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**Slab Dimensions**  
**Also refer to Concrete Piers Plan**  
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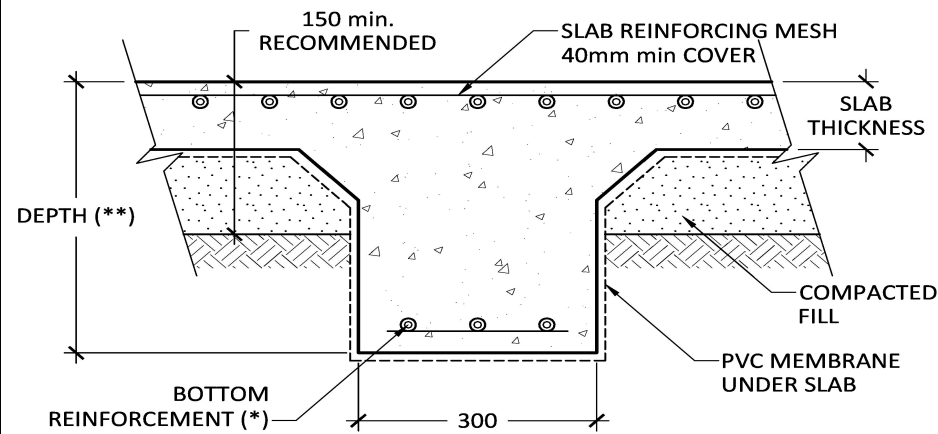
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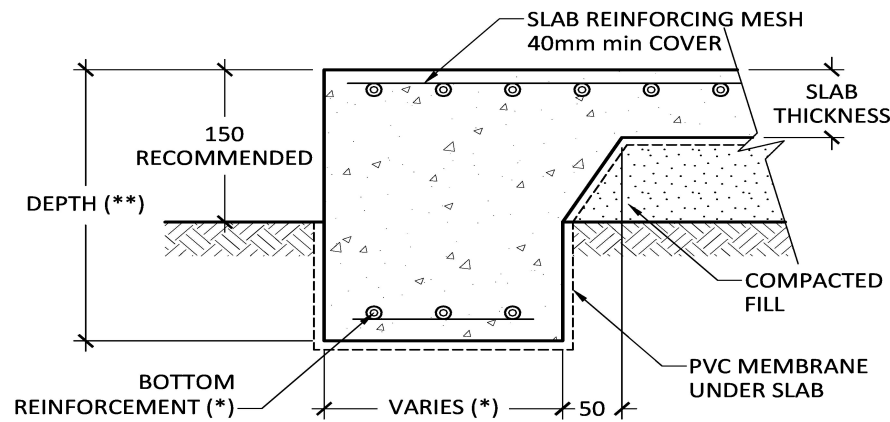
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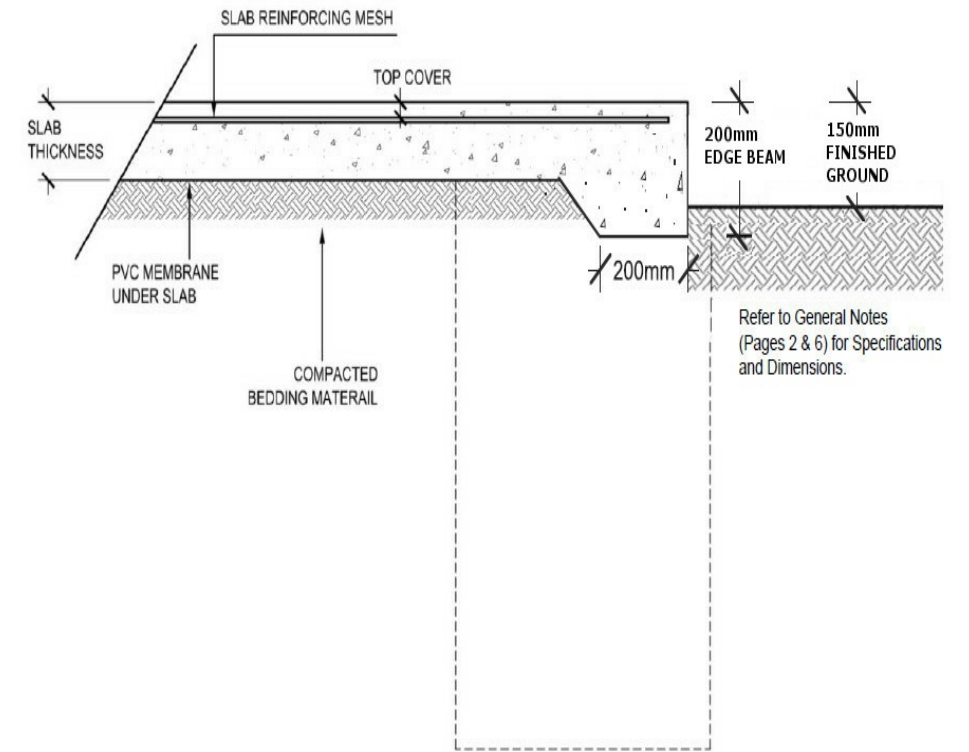
(\*\*) REFER TO GENERAL NOTES FOR DEPTHS  
 (\*) REFER TO GENERAL NOTES FOR SPECIFICATION

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

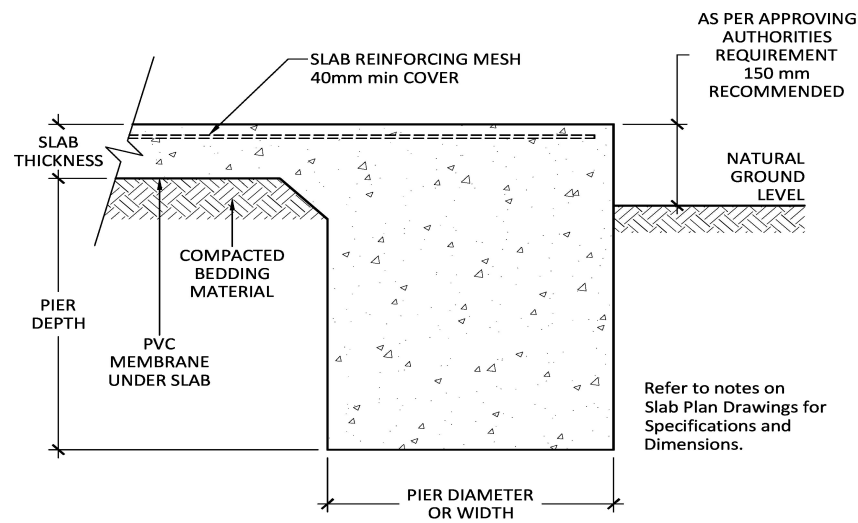


(\*\*) REFER TO GENERAL NOTES FOR DEPTHS  
 (\*) REFER TO GENERAL NOTES FOR SPECIFICATION

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

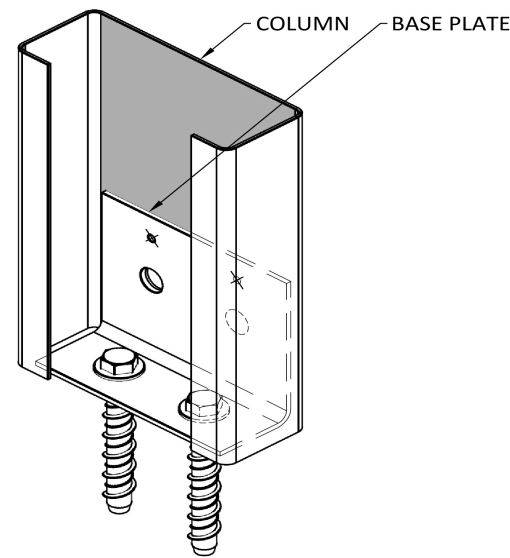


Refer to General Notes  
 (Pages 2 & 6) for Specifications  
 and Dimensions.



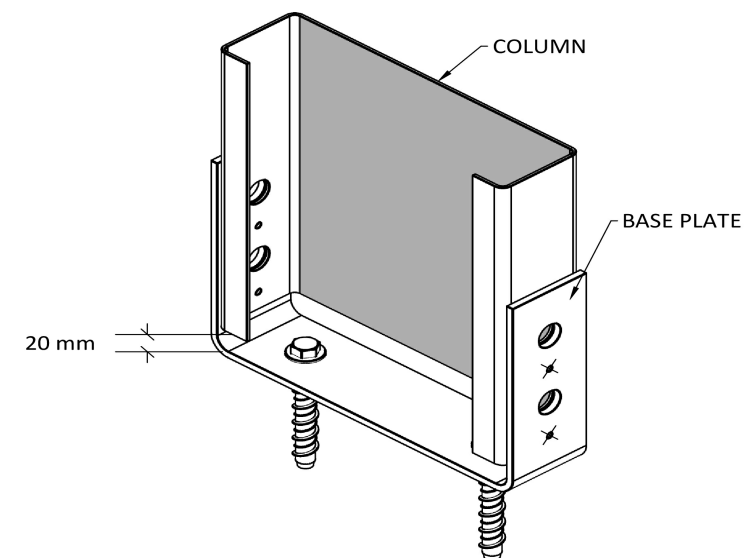
AS PER APPROVING  
 AUTHORITIES  
 REQUIREMENT  
 150 mm  
 RECOMMENDED

**SLAB AND PIER DETAIL**



FIXING BOLTS - 2 of M12 x 100 SCREWBOLTS  
 ○ FIXING BOLTS - 2 of M12 x 30 Galv.  
 × FIXING SCREWS - 2 of 14.20 x 22

**C150 MULLION BASE PLATE (B)**



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)**

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**Connection Details**

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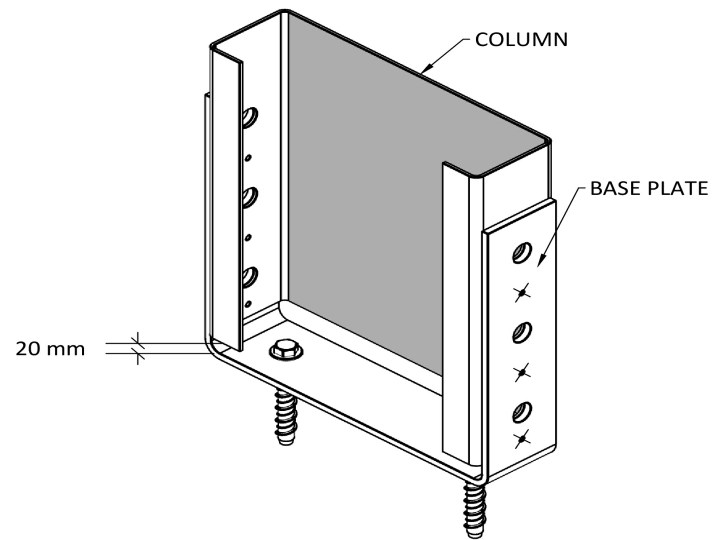
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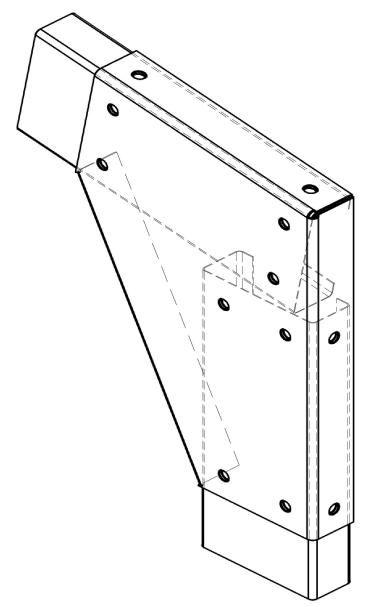
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John Ronaldson

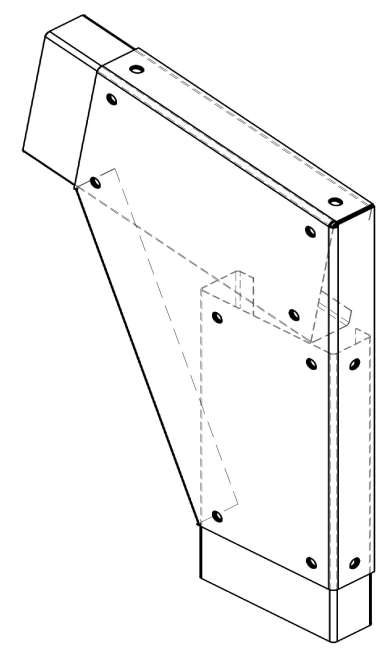
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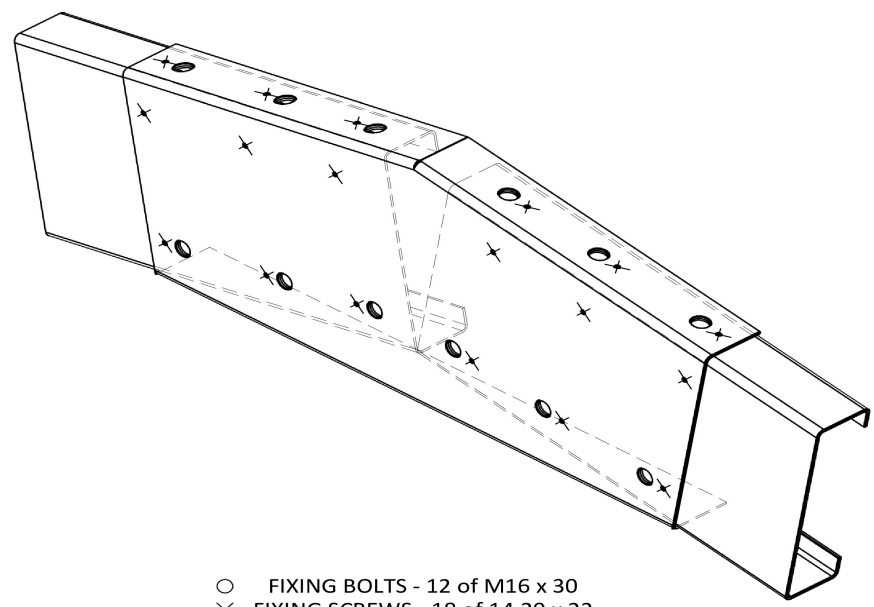
- FIXING BOLTS - 2 of M16 x 150 SCREWBOLTS
  - FIXING BOLTS - 6 of M16 x 40 (8.8)
  - × FIXING SCREWS - 6 of 12.24 x 38 Series 500
- C300 COLUMN FIXING (BF)**



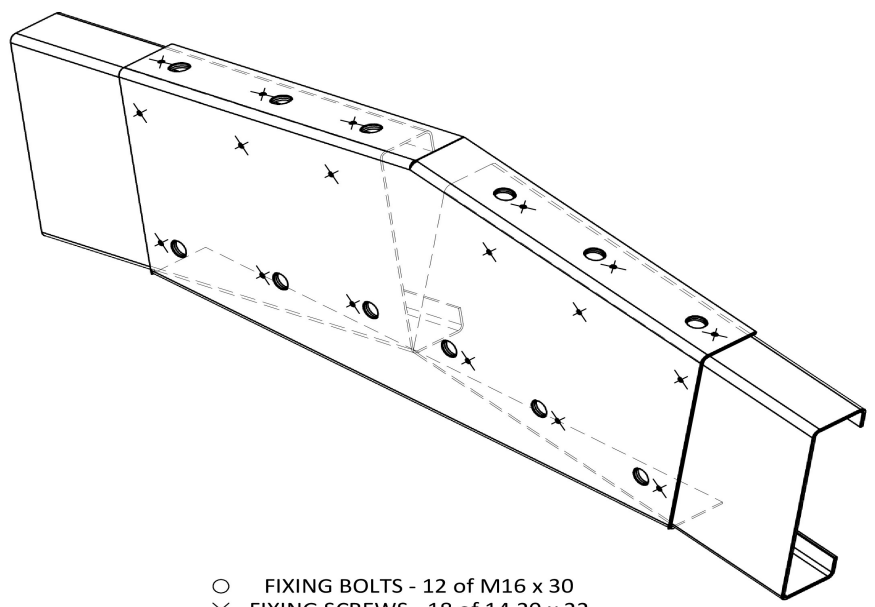
- FIXING BOLTS - 12 of M16 x 30 (8.8)
- KNEE HAUNCH BRACKET (HS&HT) - C250, 10°**



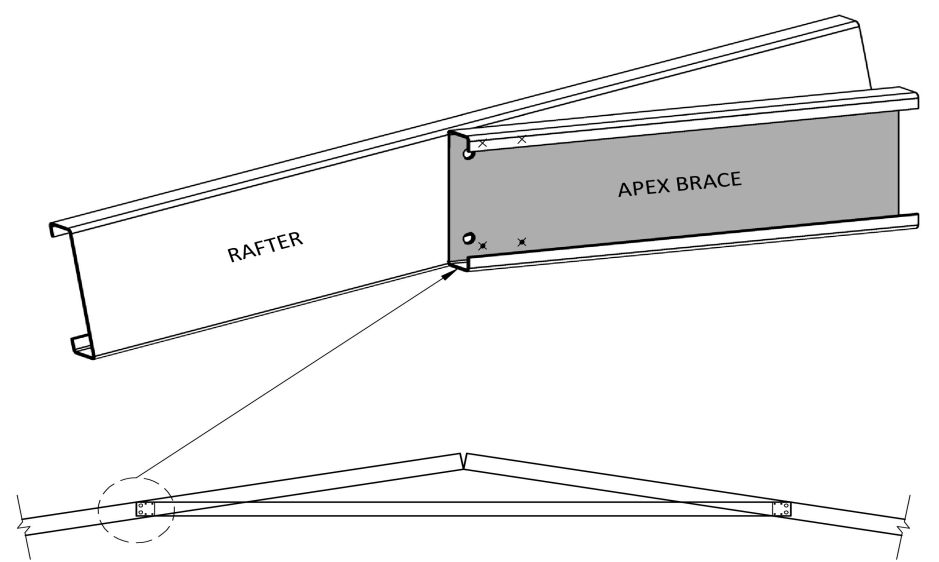
- FIXING BOLTS - 12 of M16 x 30 (8.8)
- KNEE HAUNCH BRACKET (HS&HT) - C300, 10°**



- FIXING BOLTS - 12 of M16 x 30
  - × FIXING SCREWS - 18 of 14.20 x 22
- APEX PLATE, C250, 10°**



- FIXING BOLTS - 12 of M16 x 30
  - × FIXING SCREWS - 18 of 14.20 x 22
- APEX PLATE, C300, 10°**



- FIXING BOLTS - 2 of M16 x 40 (8.8)
  - × FIXING SCREWS - 4 of 14.20 x 22
- APEX BRACE FOR SINGLE RAFTER - C300-C250**

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**Connection Details**

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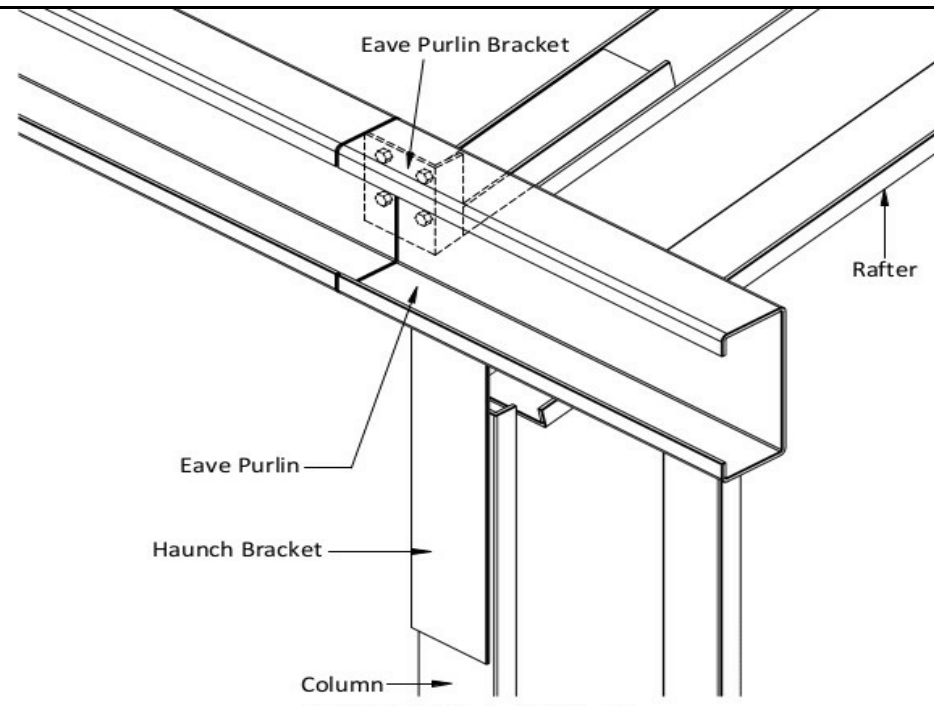
Apex Engineering Group PTY LTD  
ACN 632 588 562  
ME Aust. (Registered NER Structural) 5276680  
QLD : RPEQ No. 24223; TAS : 185770492; VIC : PE0003848; N.T. : 303557ES;  
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Signature:



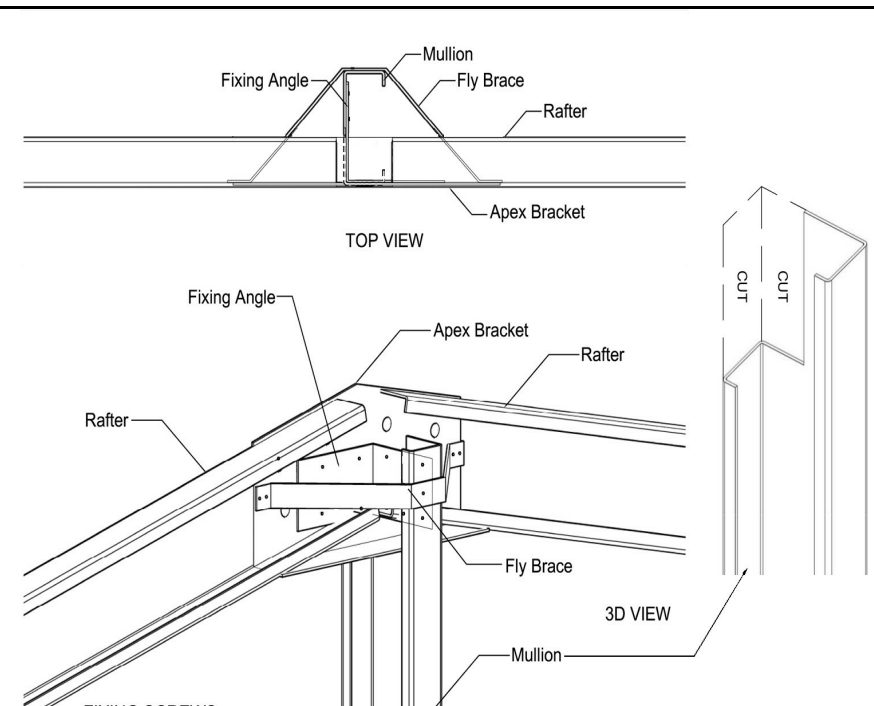
John Ronaldson

Date: 24/01/24



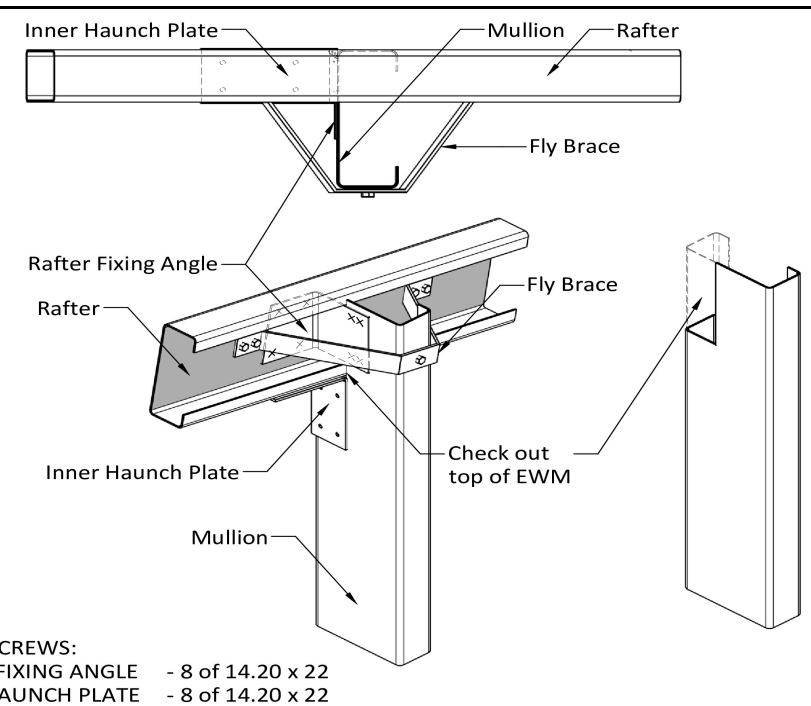
**EAVE PURLIN TO EAVE PURLIN BRACKET**

FIXING SCREWS - 4 of 14.20 x 22



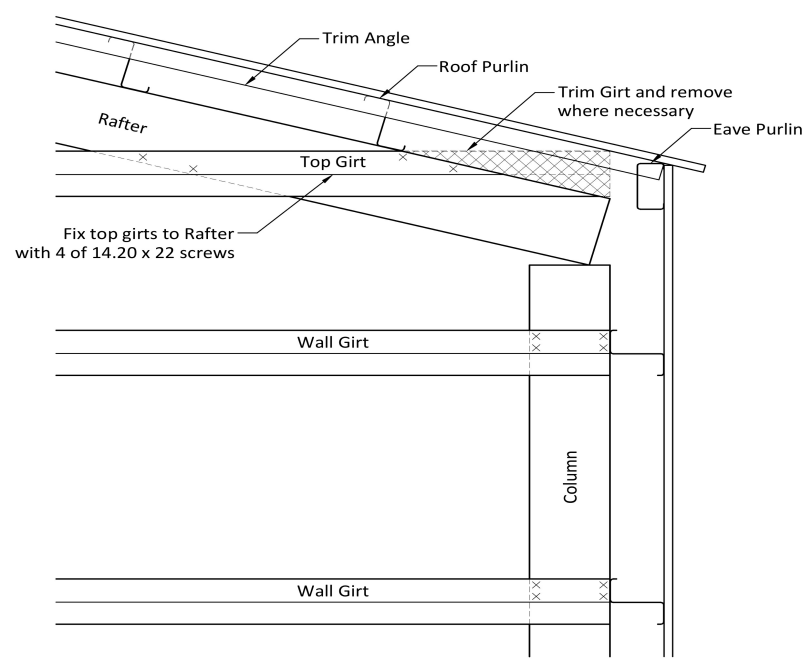
**END WALL MULLION TO APEX**

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

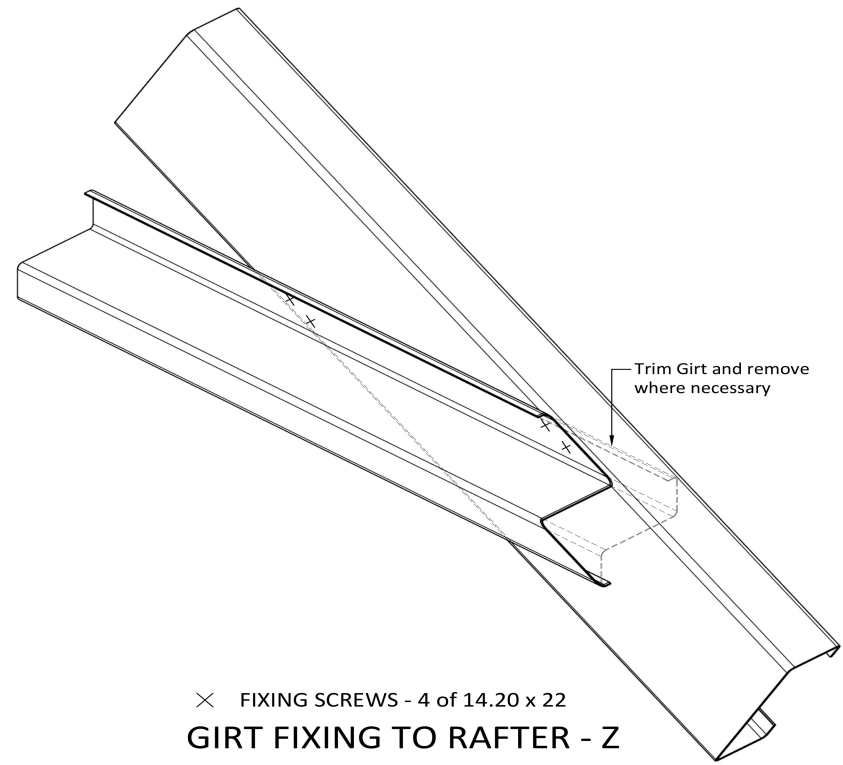


**END WALL MULLION TO RAFTER**

FIXING SCREWS:  
RAFTER FIXING ANGLE - 8 of 14.20 x 22  
INNER HAUNCH PLATE - 8 of 14.20 x 22  
FLY BRACE - 5 of 14.20 x 22

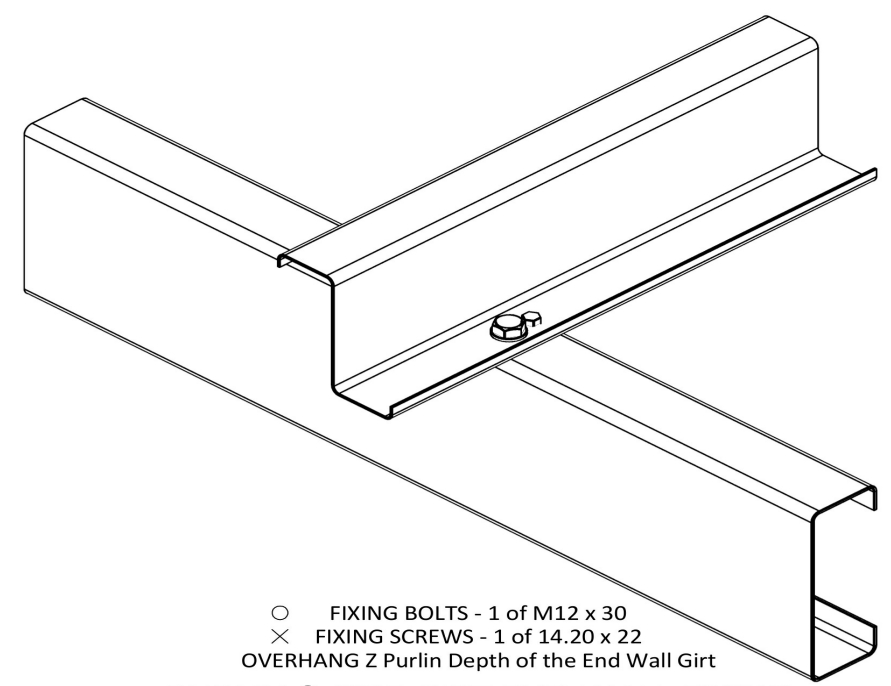


**GABLE END TOP GIRT FIXING - Z**



**GIRT FIXING TO RAFTER - Z**

× FIXING SCREWS - 4 of 14.20 x 22



**PURLIN & SIDE GIRT END WALL FIXING Z PURLIN - SINGLE COLUMN OR RAFTER**


○ FIXING BOLTS - 1 of M12 x 30  
× FIXING SCREWS - 1 of 14.20 x 22  
OVERHANG Z Purlin Depth of the End Wall Girt

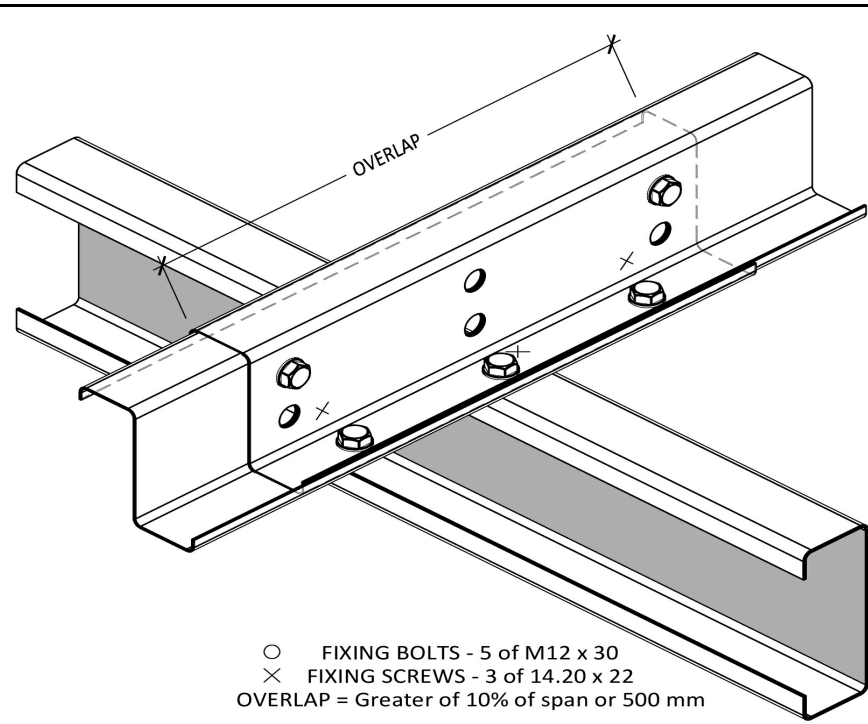
Purchaser Name: Ethan Callaghan	
Site Address: 220 Broadhead Rd Spring Flat NSW 2850 Australia	
Drawing # TMJD240003 - 8	Print Date: 24/01/24

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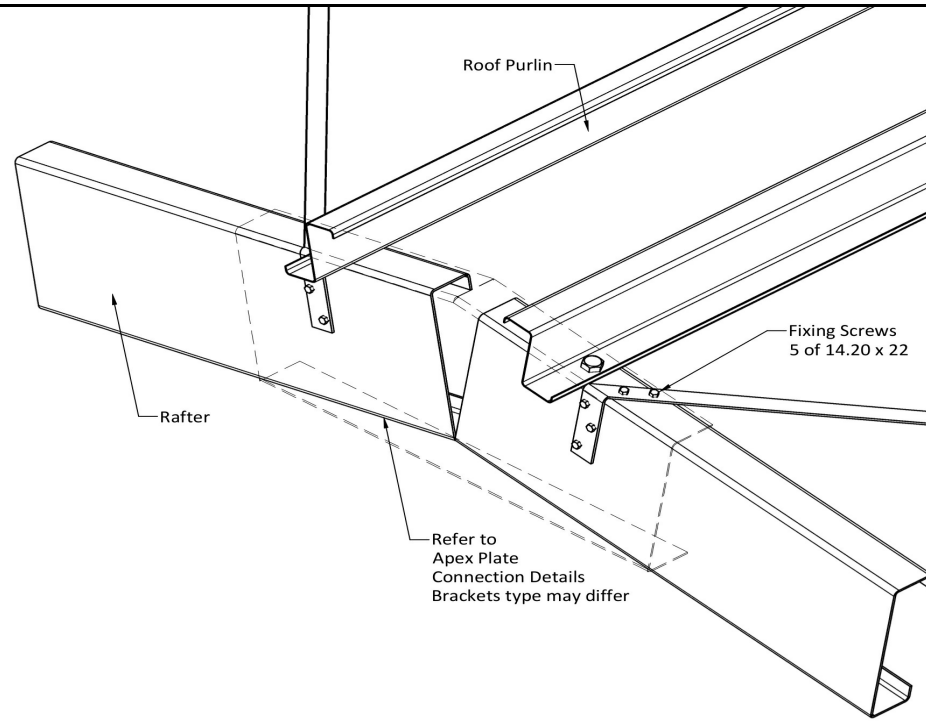
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Signature:  John Ronaldson  
Date: 24/01/24

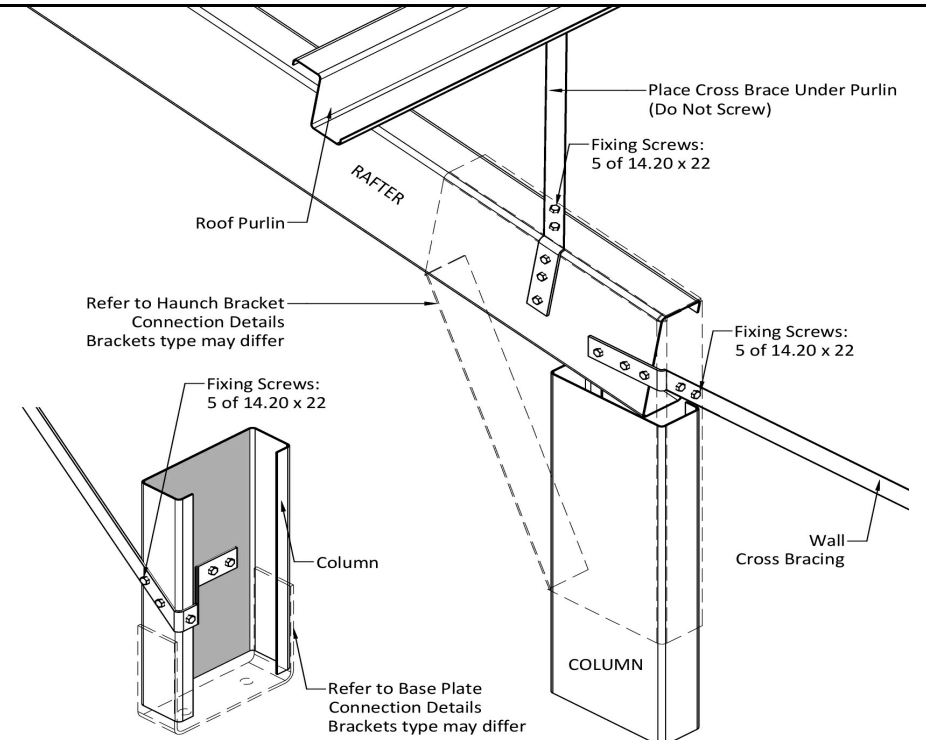


○ FIXING BOLTS - 5 of M12 x 30  
 × FIXING SCREWS - 3 of 14.20 x 22  
 OVERLAP = Greater of 10% of span or 500 mm

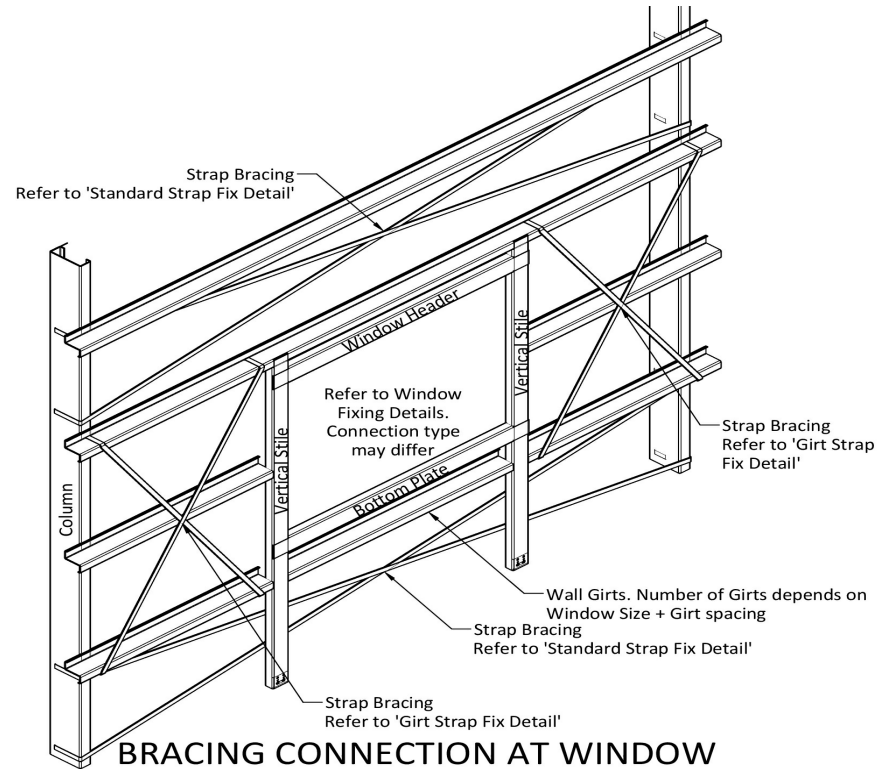
**PURLIN/GIRT FIXING**  
**SINGLE C SECTION COLUMNS OR RAFTERS**



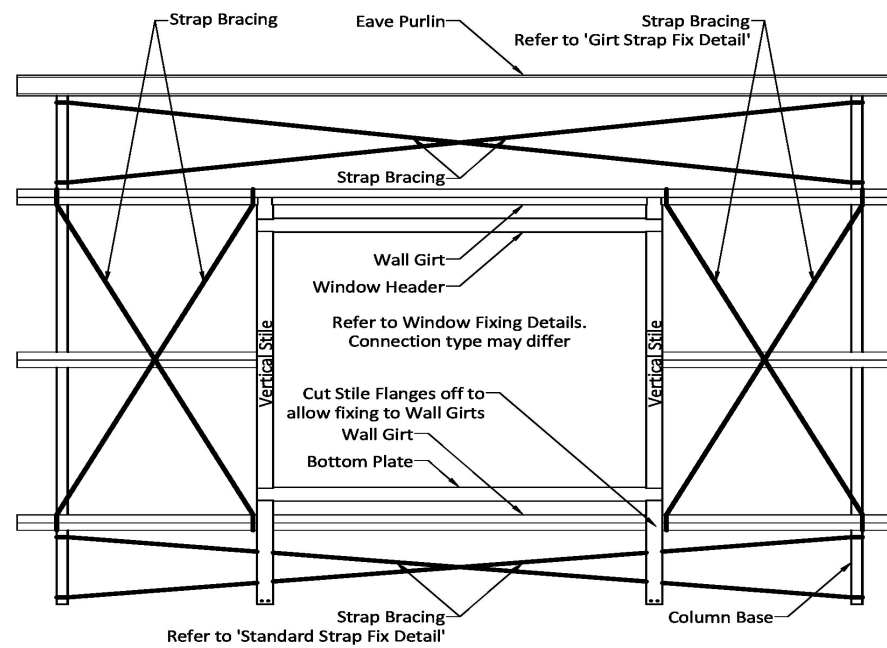
**BRACING CONNECTION AT APEX**



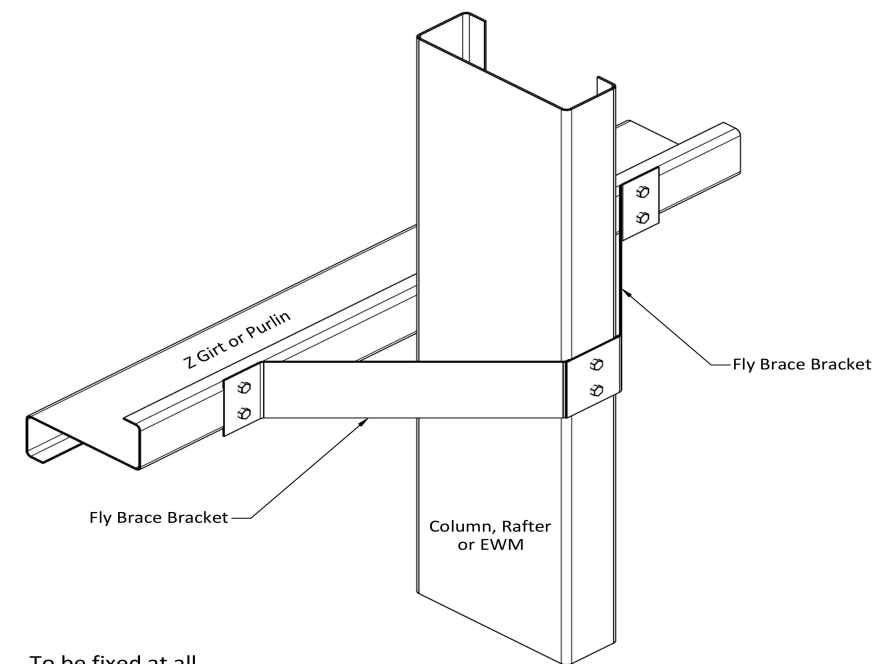
**BRACING CONNECTION**



**BRACING CONNECTION AT WINDOW**  
 \*Where Spacing between Column and Vertical Stile is greater than 500 mm



Where Spacing between Column and Vertical Stile is greater than 500 mm  
**BRACING CONNECTION AT WINDOW**



To be fixed at all Columns, Rafters & EWM where possible  
 FIXING SCREWS - 6 of 14.20 x 22  
**FLY BRACING BRACKET**

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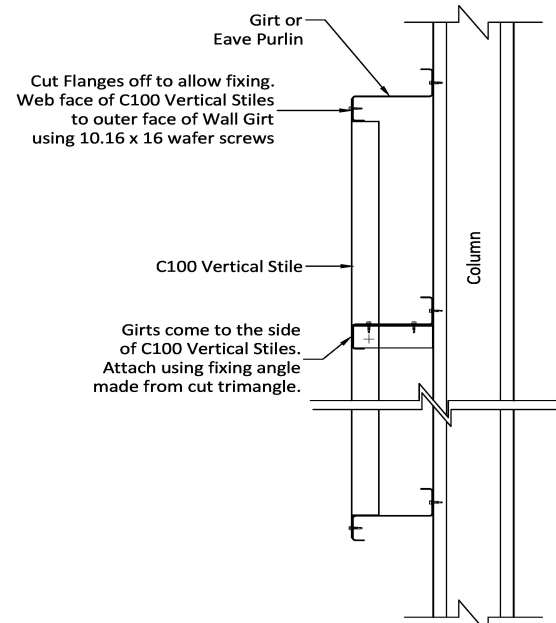
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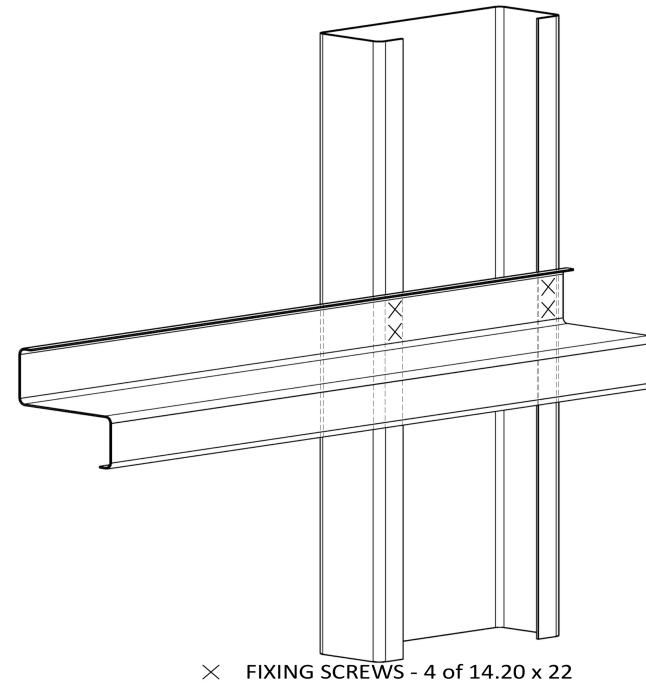
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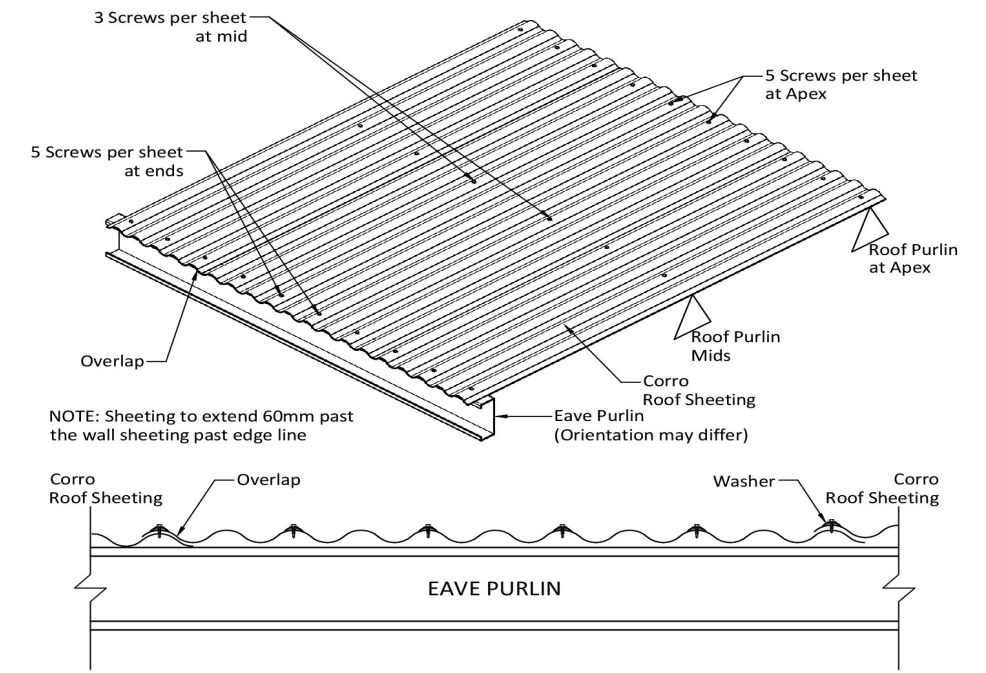
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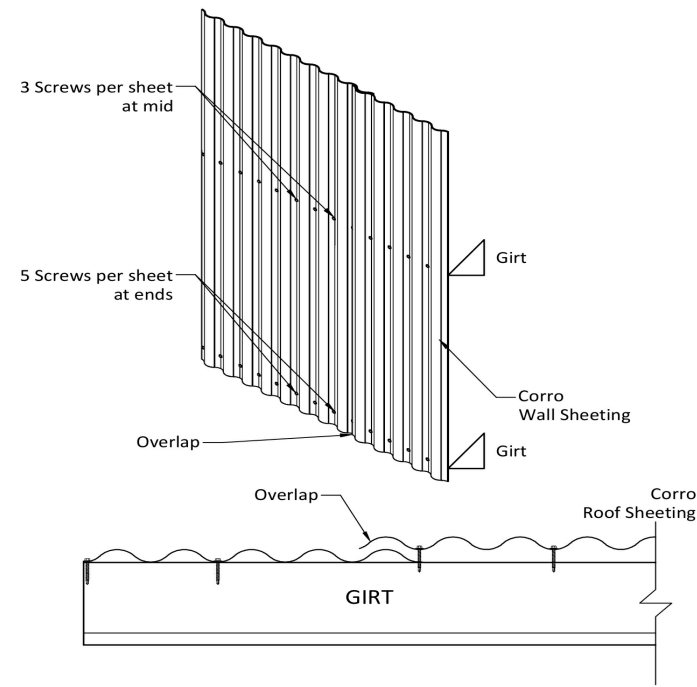
**Window Frame (Over 900 High and 1500 Wide)**  
 Note: Top of Window 2100 above GL. Window frame fixed to vertical stiles only



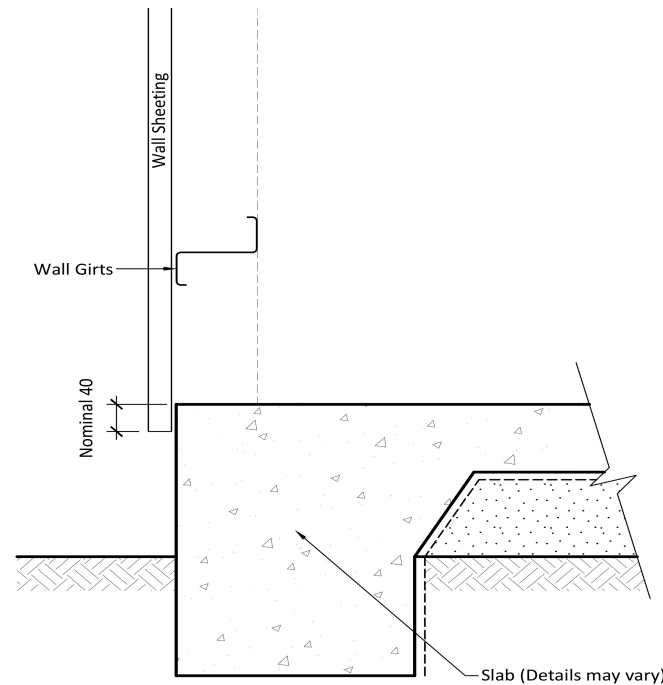
**GIRT FIXING - Z**



Roofing Screws - 12.14 x 42 Hex Seal High Grip  
**CORRO ROOF SHEET FIXING**



Wall Screws - 10.16 x 16 Hex  
**WALL SHEETING CONNECTION DETAILS**



**WALL SHEET OVERHANG DETAIL**

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**Connection Details**

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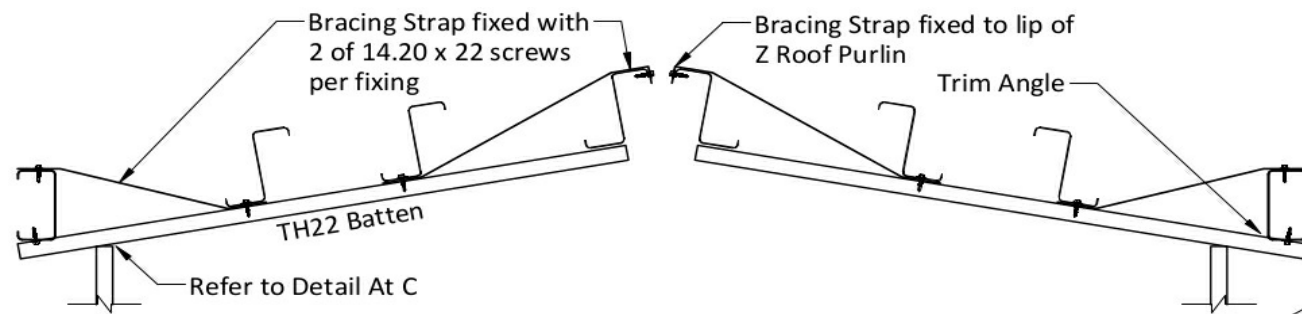
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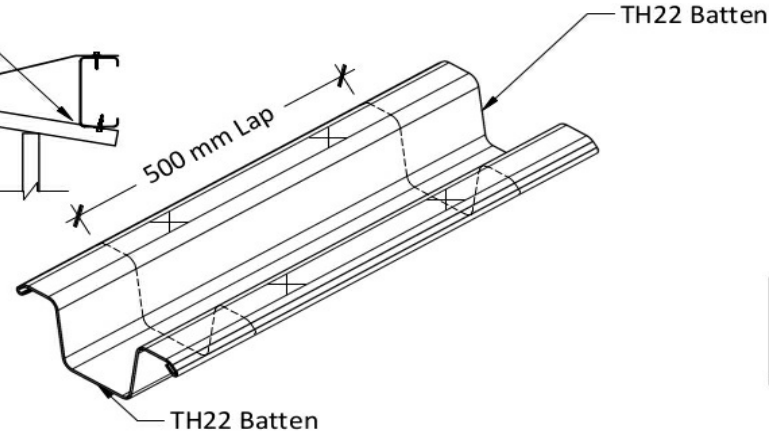
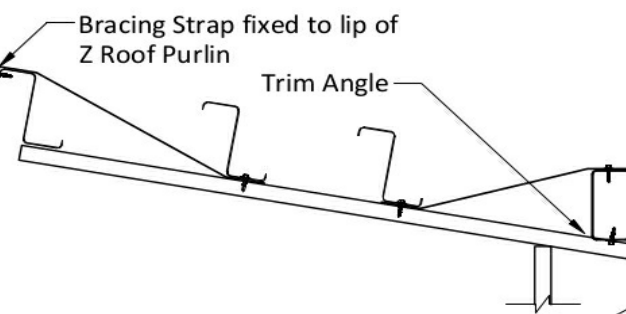
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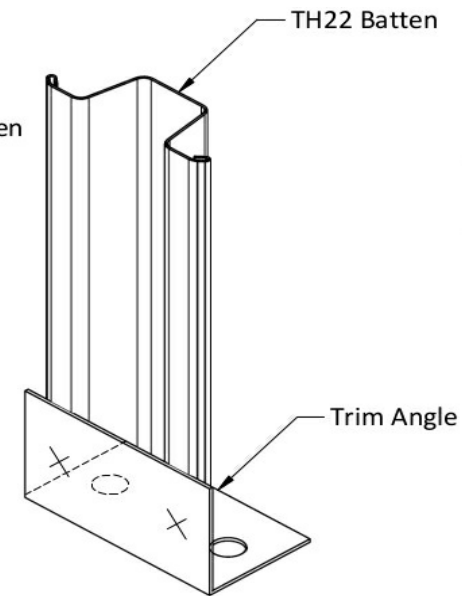


Note: Fix Bracing Strap first, then fix batten over Bracing Strap to maintain line.



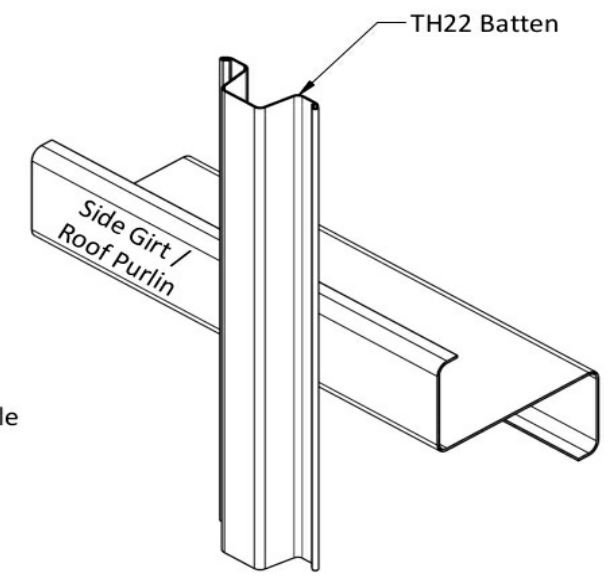
**BATTEN OVERLAP**

To extend battens, Lap battens 500 mm with 4 screws



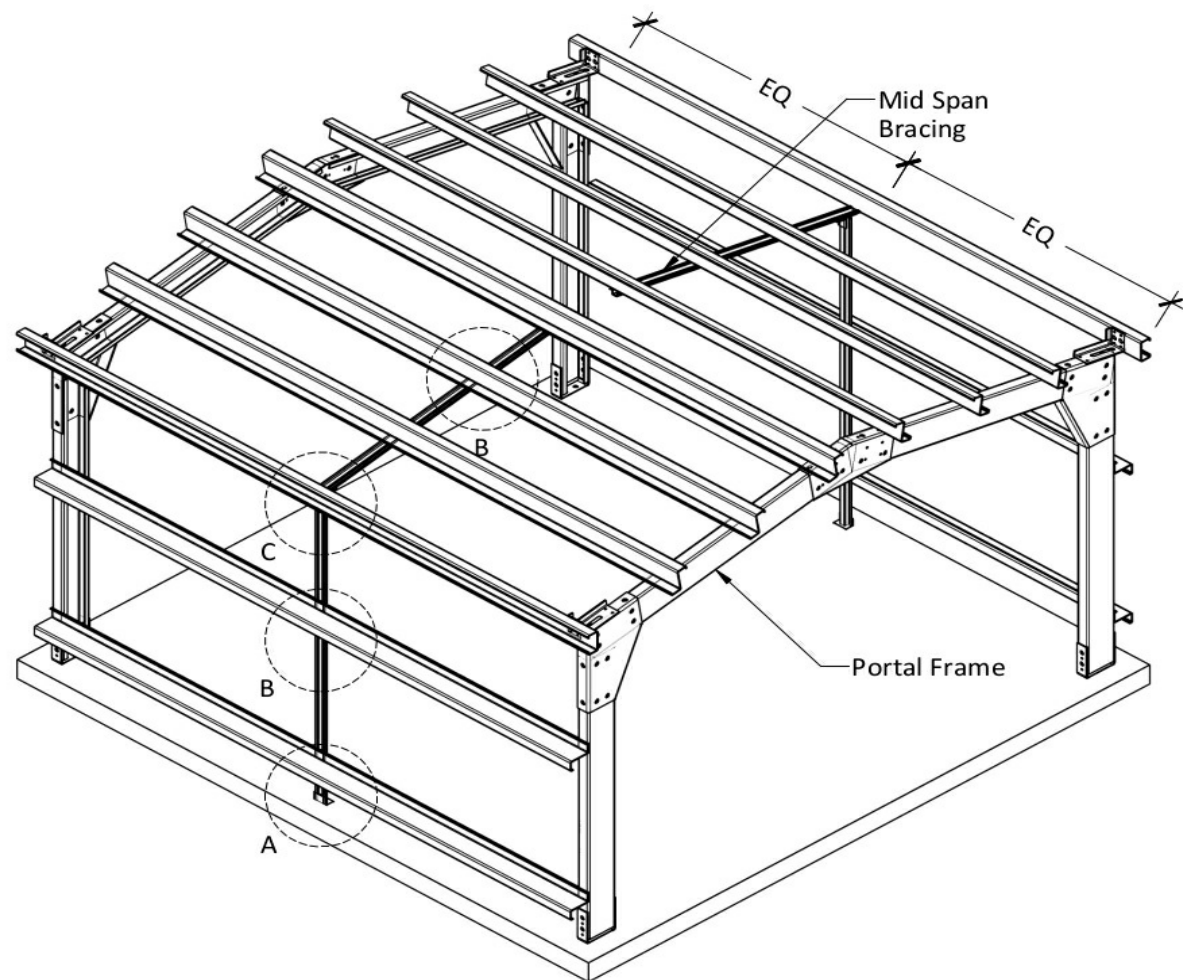
**DETAIL AT A**

FIXING SCREWS: 2 of 14.20 x 22 to Bracket  
FIXING BOLTS: 2 of M8 x 40 Dynabolts to Concrete  
PIERS ONLY FINISH AT BOTTOM GIRT

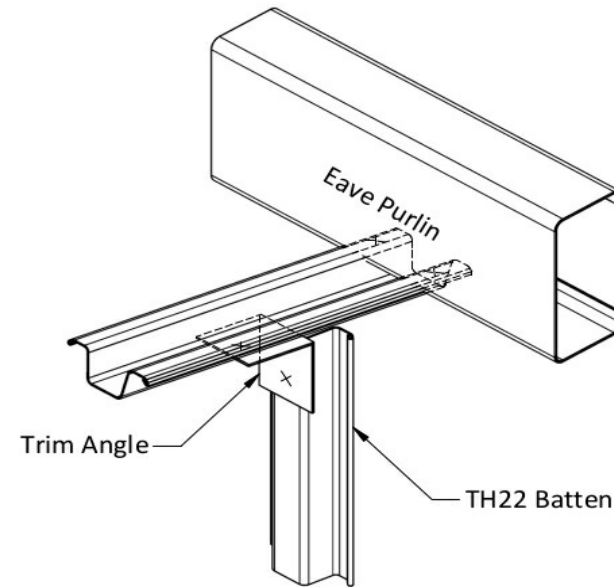


**DETAIL AT B**

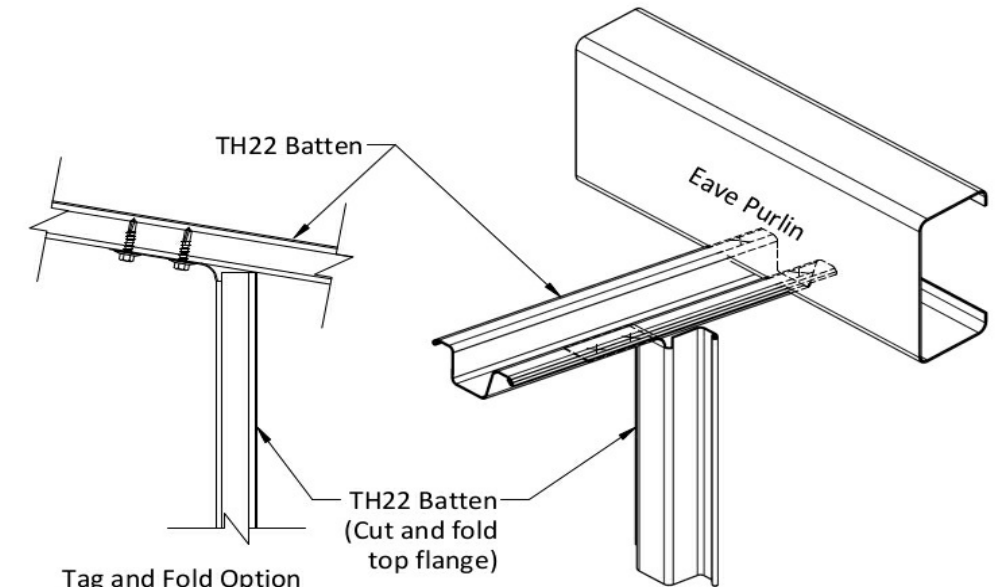
FIXING SCREWS: 2 of 14.20 x 22 to each Wall Girt or Roof Purlin



**Illustrative Only:**  
Refer to specsheet for Bridging requirements and locations. Bridging may not be required on both roof and walls as shown. If Bridging is not in the specifications table it is not required



**Trim Angle Option:**  
FIXING SCREWS: 2 of 14.20 x 22 to Bracket  
FIXING SCREWS: 2 of 14.20 x 22 to Eave Purlin



**Tag and Fold Option Side View:**

**Tag and Fold Option:**  
FIXING SCREWS: 2 of 14.20 x 22 to Batten  
FIXING SCREWS: 2 of 14.20 x 22 to Eave Purlin

Where possible, use Trim Angle or attach the Roof Bridging to the Eave Purlin

Purchaser Name: Ethan Callaghan

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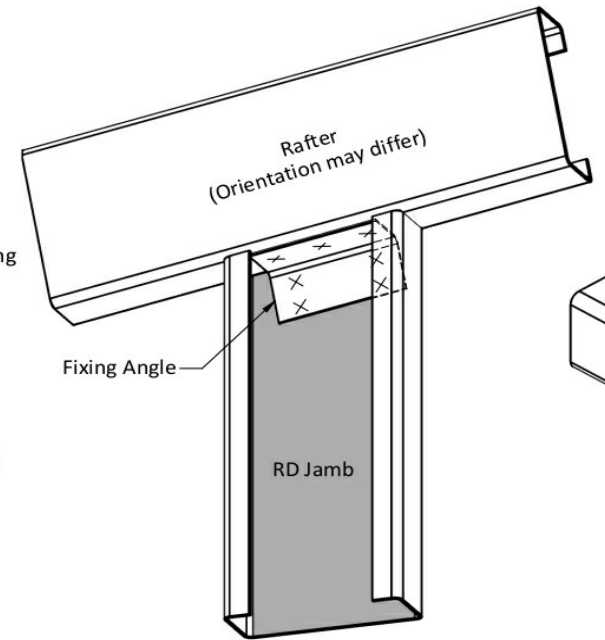
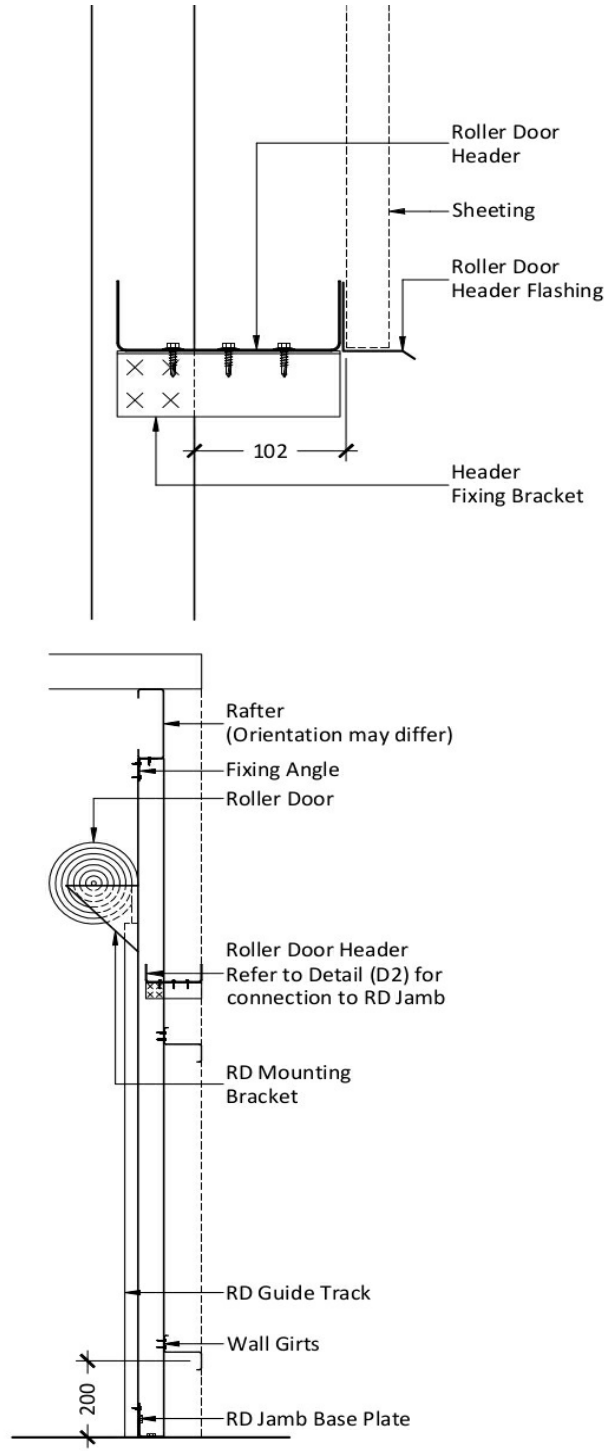
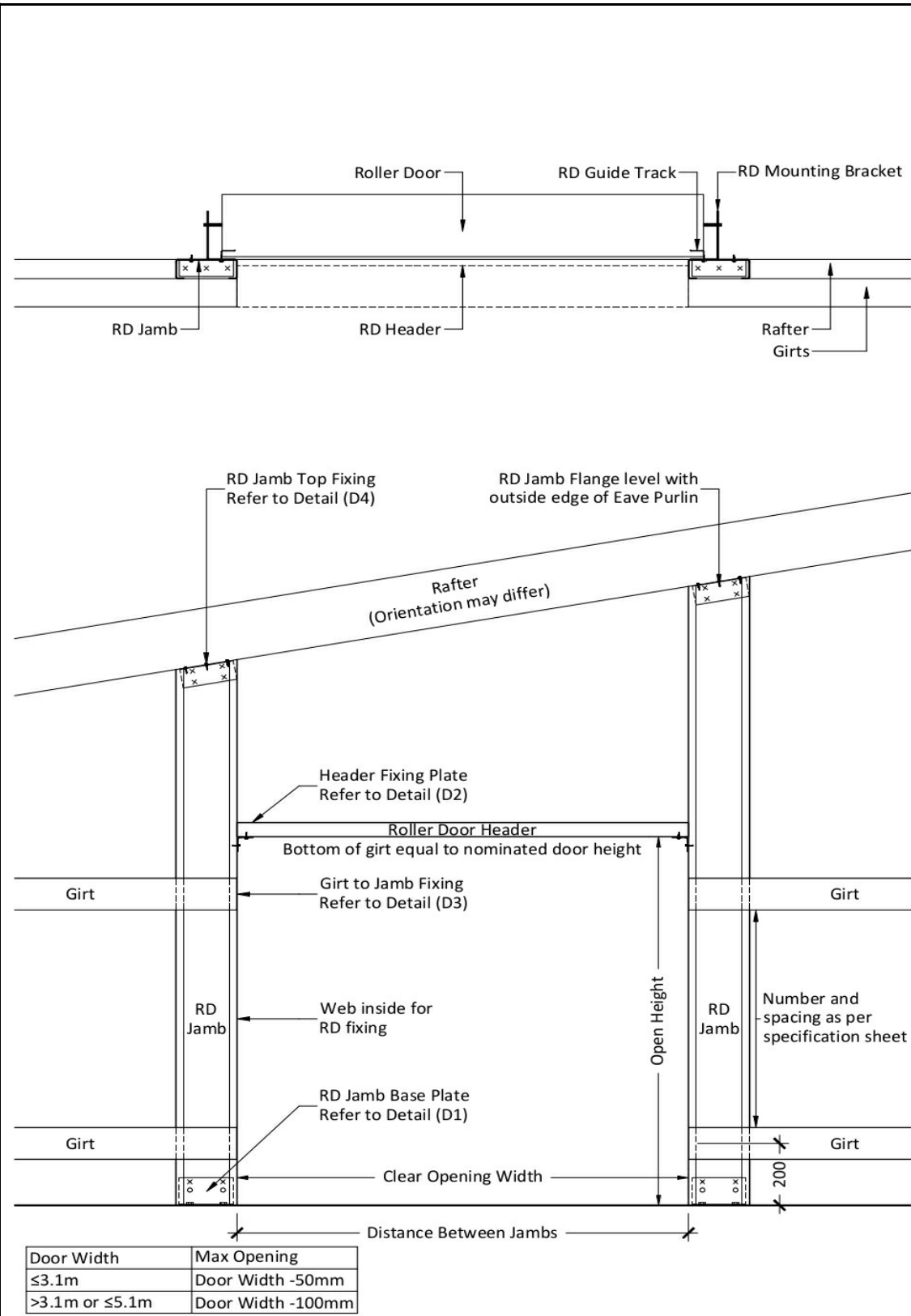
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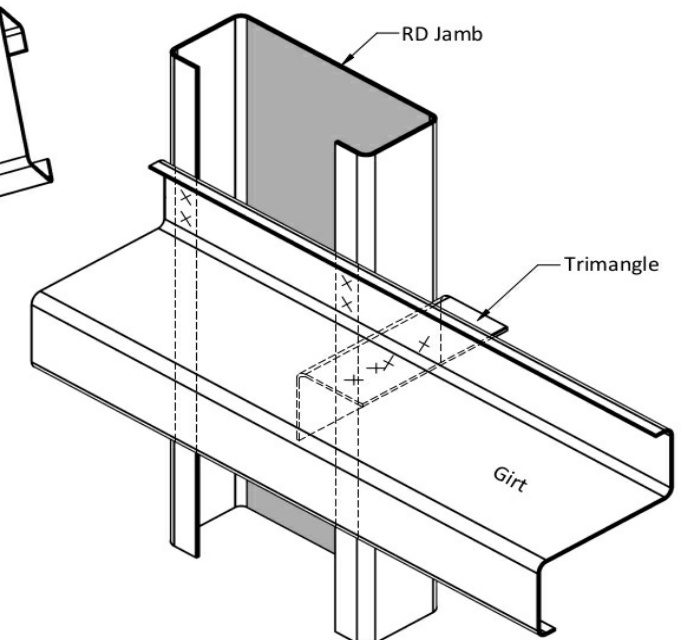


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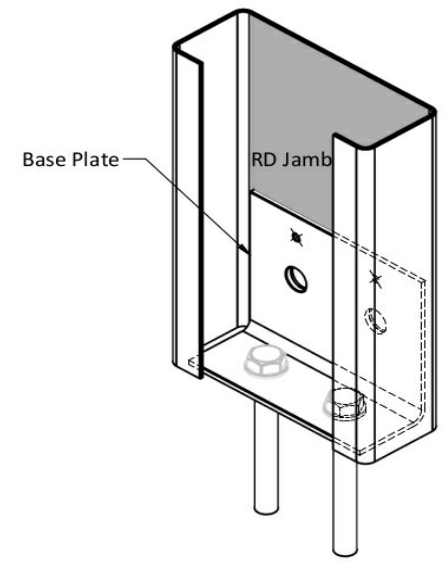
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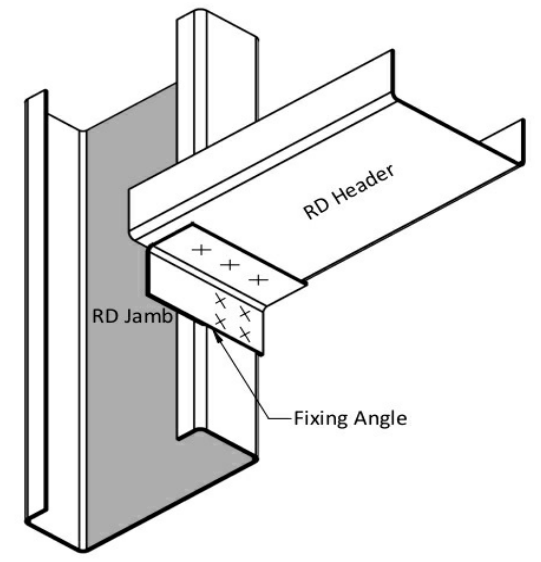
✕ FIXING SCREWS - 7 of 14.20 x 22  
**DETAIL (D4) - RD JAMB TOP FIXING**



✕ FIXING SCREWS - 4 of 14.20 x 22 TO JAMB LIPS  
 ✕ 4 of 14.20 x 22 TO TRIMANGLE  
**DETAIL (D3) - GIRT FIXING TO RD JAMB**



2 of M12 x 75 DYNABOLTS - FOR C150 & C200 JAMBS  
 2 of M16 x 110 DYNABOLTS - FOR C250 & C300 JAMBS  
 ○ FIXING BOLTS - 2 of M12 x 30 - FOR C150 & C200 JAMBS  
 ○ FIXING BOLTS - 2 of M16 x 30 - FOR C250 & C300 JAMBS  
 ✕ FIXING SCREWS - 2 of 14.20 x 22  
**DETAIL (D1) - RD JAMB BASE PLATE**



✕ FIXING SCREWS - 7 of 14.20 x 22  
**DETAIL (D2) - RD HEADER FIXING**

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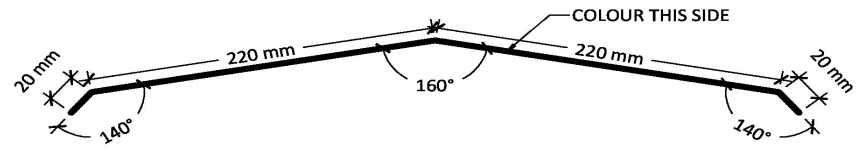
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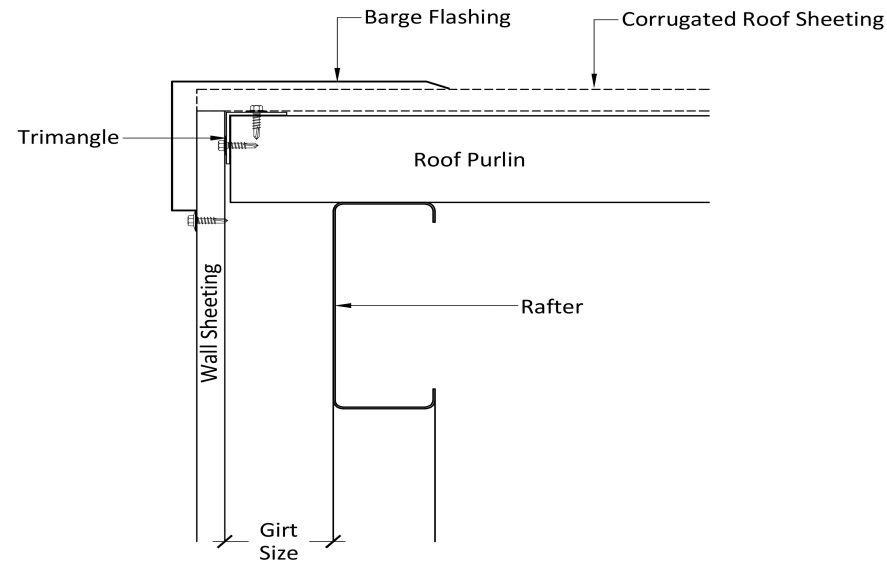
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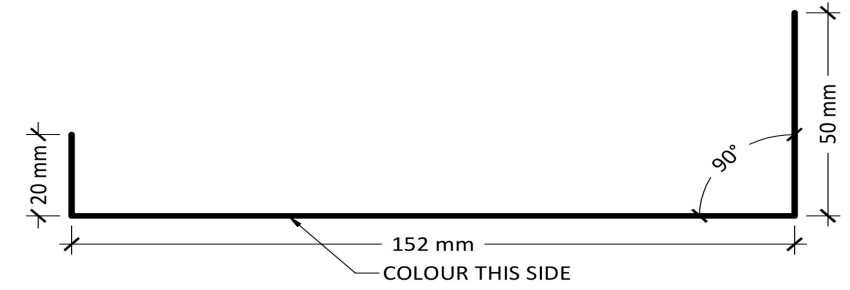
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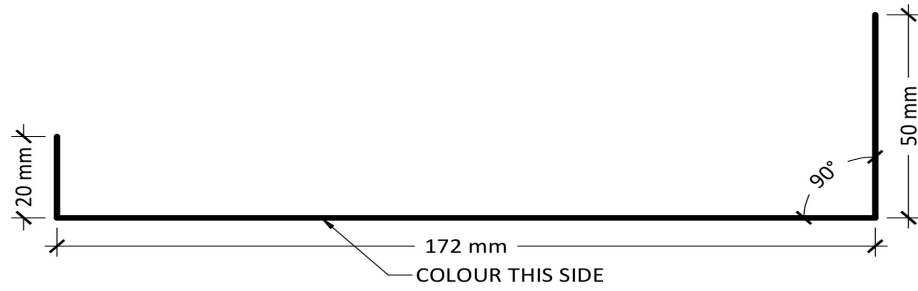
10° Ridge Capping - Z - Corodek  
2XF274



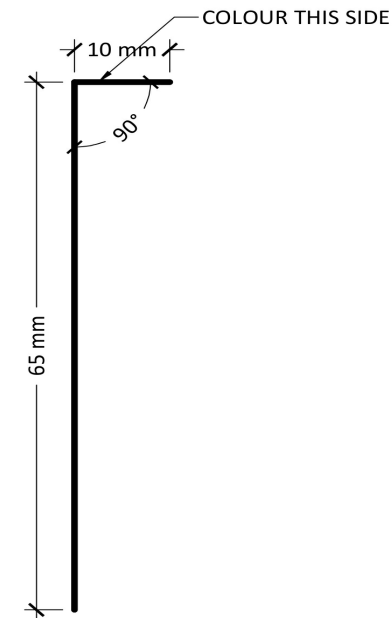
Barge Flashing XF10 - CT - Sheeting Gable



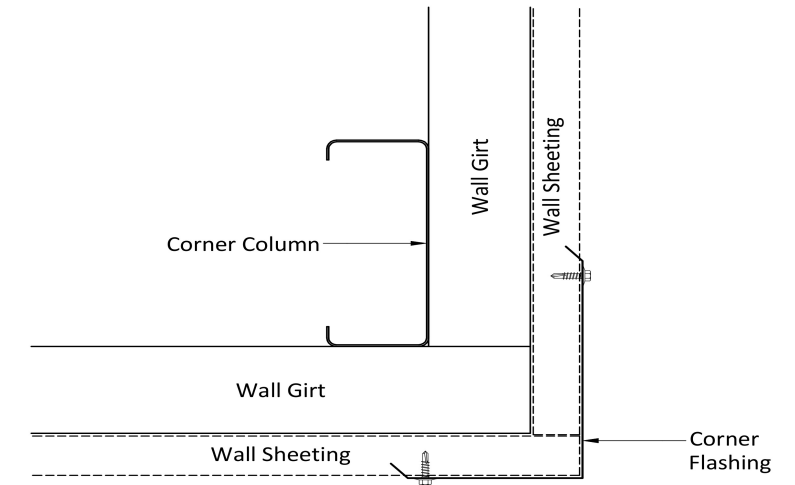
RD Head Cover Flashing  
XF117



RD Head Cover Flashing  
XF118



RD Side - Cover Flash  
XF18



Corner Flashing XF21 - CT

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**Flashing Fixing Details**

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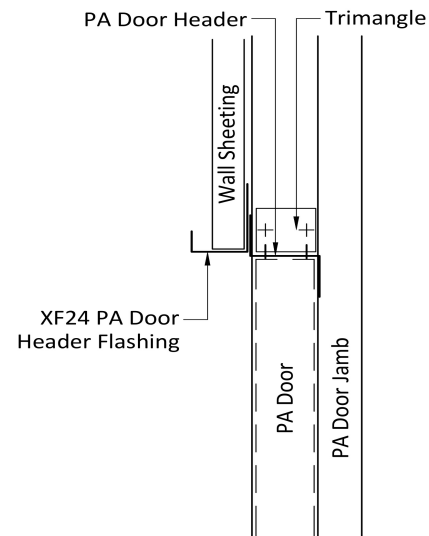
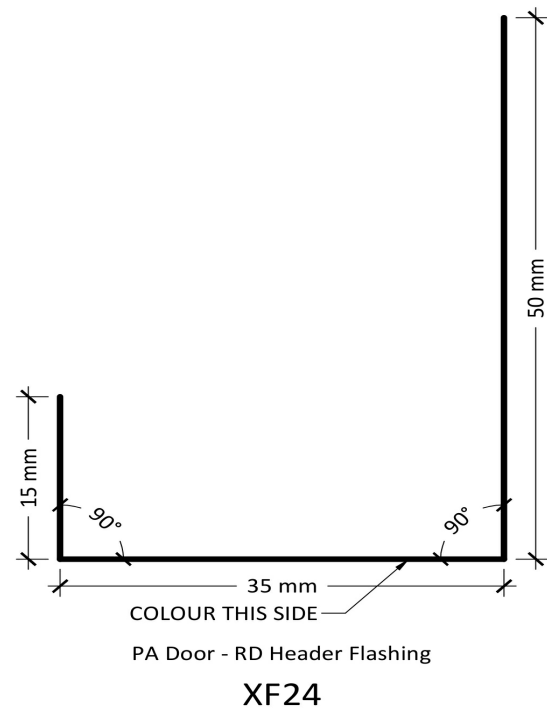
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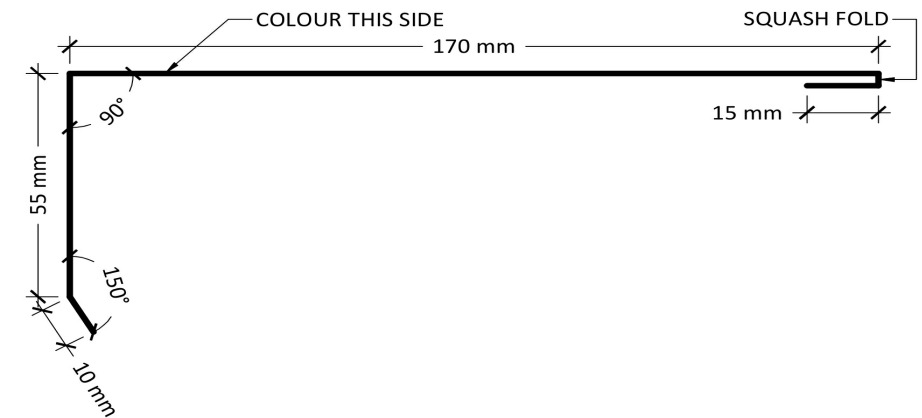
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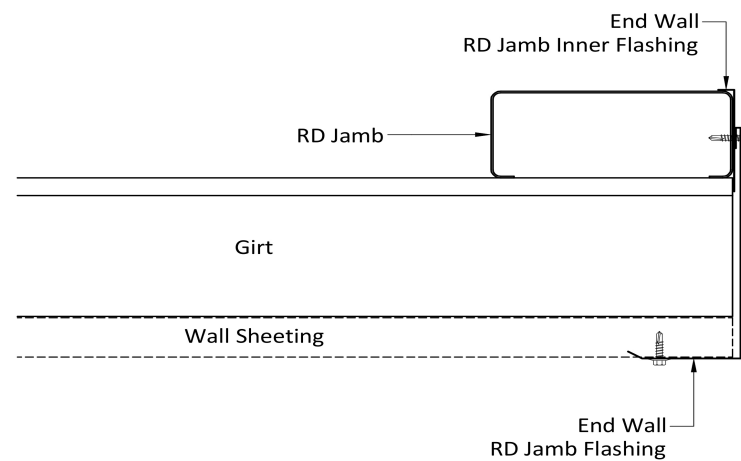




PA Door Header Flashing - XF24



End Wall RD Jamb Flashing  
XF49



End Wall RD Jamb Flashing XF49/18

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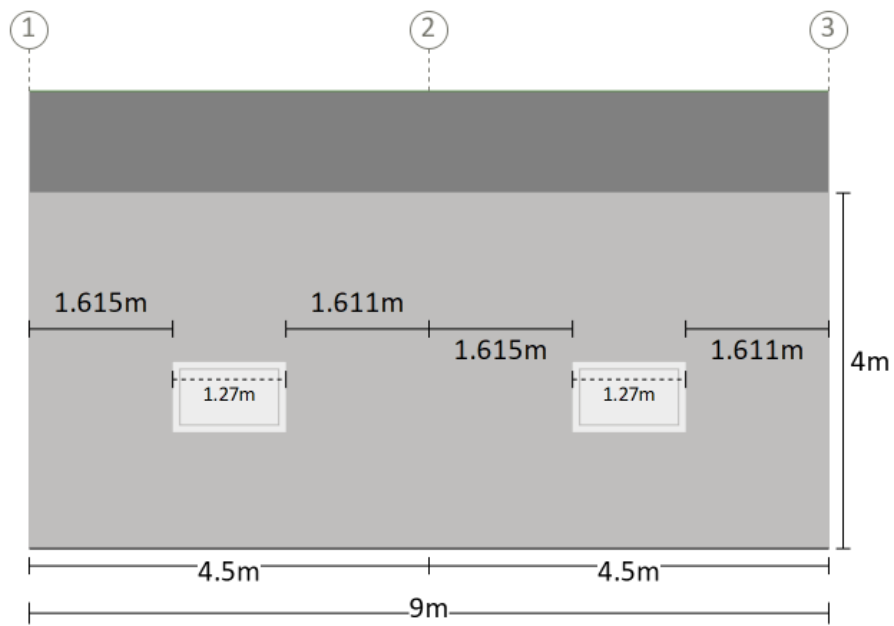
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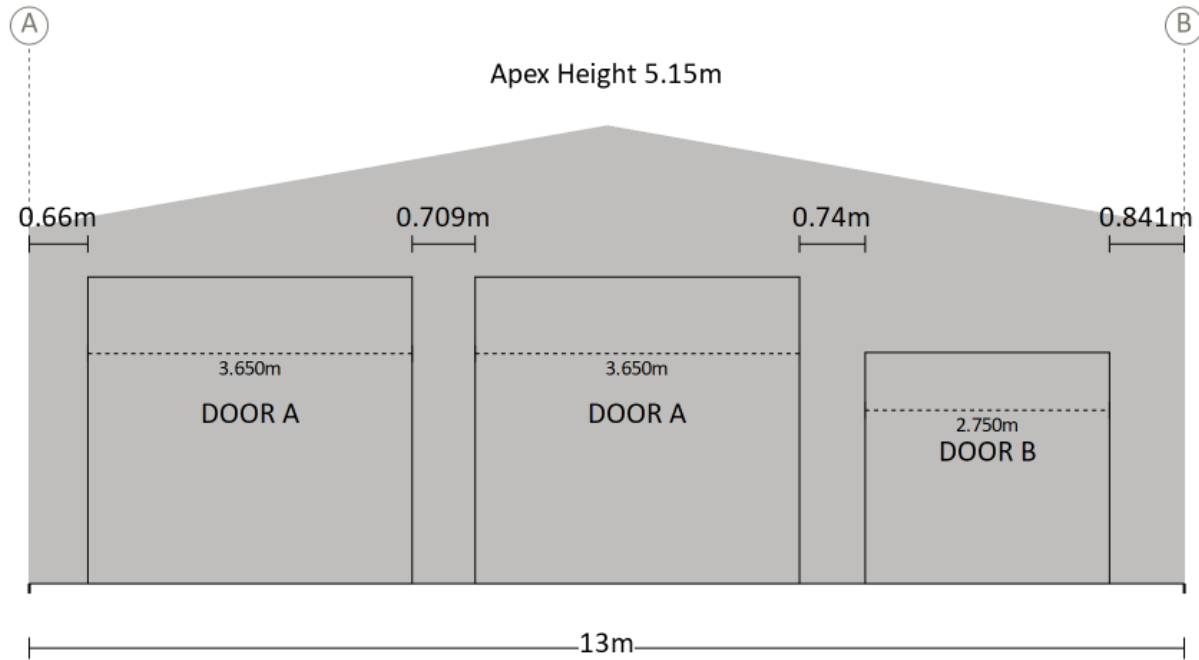
This setout is provided as a guide only. It is the responsibility of the concreter/erector to confirm that all dimensions are correct.

**Right 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**



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**Component Position**

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