

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 Earlier plans provided may have become outdated due to engineering changes and should not be used.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

* 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 3600:2018
- * 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:
C20019 - 450mm dia x 500mm deep, centered to the C Section
C15019 - 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 400mm deep x 300mm wide with Y12 3 bar Trench Mesh to the perimeter of the building.
- * Internal beams 400mm deep by 300mm wide with Y12 3 bar Trench Mesh at a max spacing of 6.2m.
- * Concrete piers under Roller Doors Jambes to be a minimum size as below:
C20019 - 450mm dia x 650mm deep, centered to the C Section
C15019 - 300mm dia x 500mm deep, centered to the C Section

BRACING NOTES

- * Refer to Connection Details.
 - * Knee bracing clearance from FFL is X = Main Building: 2.771m (Left Side), 2.530m (Right Side) .
 - * 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.
- * 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 jamb, 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.

Revision	Date	Initial		
			Purchaser Name: Nik Reed	
			Site Address: 10 Robert Jones St Mudgee NSW 2850 Australia	
			Drawing # TMUD214033 - 2	Print Date: 6/12/2021

General Notes

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MIE Aust. (Registered NER Structural) 5276680
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BOLTS

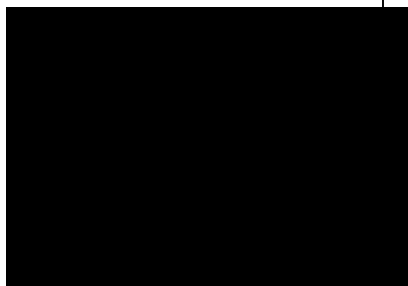
- * Unless otherwise nominated, all bolts are grade 4.6
- * All tensioned bolts shall be tensioned using the part turn method (refer to AS4100). For the erector, full details are in the construction manual.

Roller Doors

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

OTHER MATERIALS NOTES

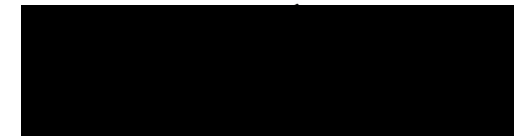
- * All Sheeting, Flashing and framing screws are Climaseal 4.
- * All purlin material has Z350 zinc coating with minimum strength of 450MPa.

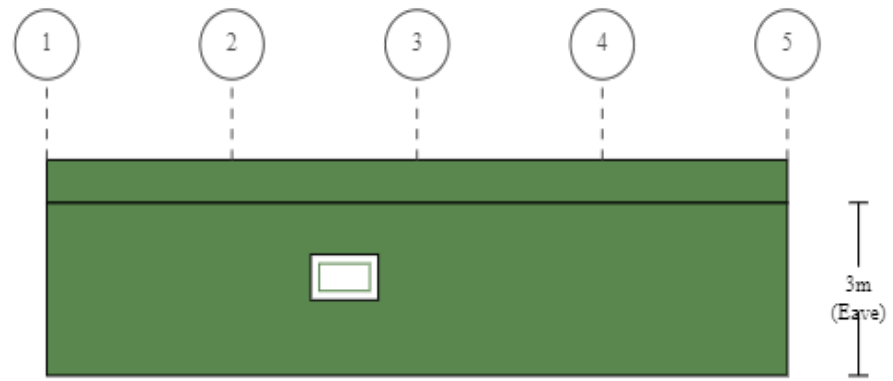
Revision	Date	Initial			General Notes		Apex Engineering Group PTY LTD ACN 632 588 562 MIE Aust. (Registered NER Structural) 5276680 QLD : RPEQ No. 24223; TAS : 185770492; VIC : PE0003848; N.T : 303557ES; Practising Professional Structural & Civil Engineers
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General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

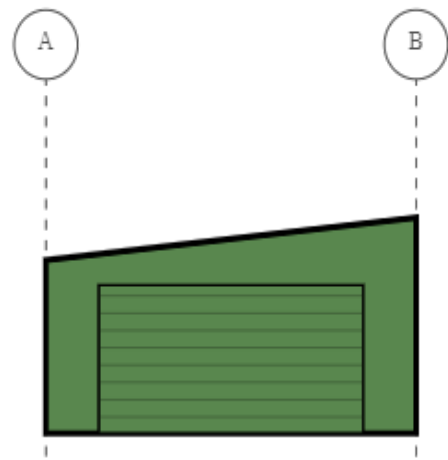
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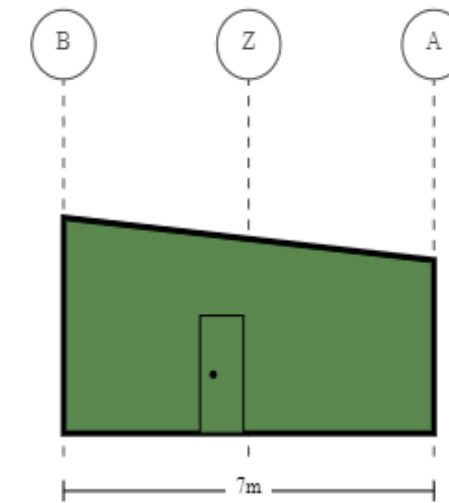
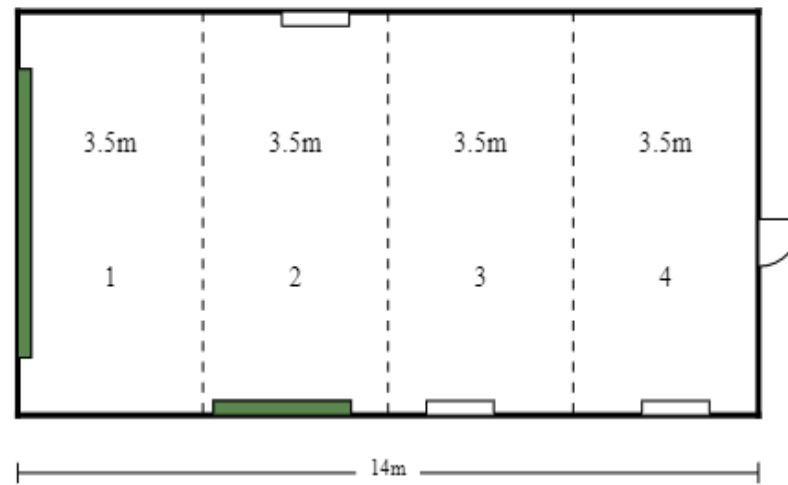




Left Side



Left End



Right End



Right Side

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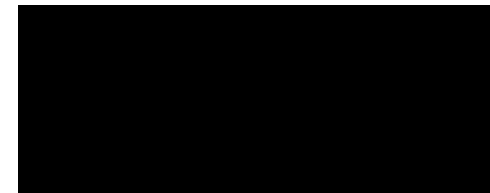
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Layout
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MATERIAL SPECIFICATIONS

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	7	14	6	3	A - B	1 - 5

Portal Frame Elements

Grid / Portal Number		1	2	3	4	5
Columns	A	C15015	C15024	C15024	C15024	C15015
	B	C15015	C15024	C15024	C15024	C15015
Rafters	A - B	C15012	C15024	C15024	C15024	C15012
End Wall Mullions	Z	-	-	-	-	C15019
Knee Braces	B - A		C15012 @ 1.4m	C15012 @ 1.4m	C15012 @ 1.4m	

Bay Section Elements

Grid / Bay Number		1	2	3	4	Maximum
Bay Widths		3.5	3.5	3.5	3.5	
Roof Purlins (refer to Purlin And Girt Plan)		Z100	Z100	Z100	Z100	
Roof Purlin Spacing (End)	A - B	0.9	0.9	0.9	0.9	0.900
Roof Purlin Spacing (Internal Spans)	A - B	1.048	1.048	1.048	1.048	1.200
Eave Purlin	A	XC15012	XC15012	XC15012	XC15012	
Eave Girt	B	Z10010	Z10010	Z10010	Z10010	
Side Girts (refer to Purlin And Girt Plan)		Z100	Z100	Z100	Z100	
Side Girt Bridging (Rows)	B	YES (1)	-	-	-	
Side Girts Spacing (End)	A	1.385	1.385	1.385	1.385	1.700
	B	1.169	1.169	1.169	1.169	1.700
Side Girts Spacing (Internal)	A	1.385	1.385	1.385	1.385	1.700
	B	1.169	1.169	1.169	1.169	1.700
Roller Door Header	B	-	C10010	-	-	
Roller Door Jambs	B	-	C15019	-	-	

End Bay Section Elements

Grid / Portal Number		1	5	Maximum
End Girts (refer to Purlin And Girt Plan)		Z100	Z100	
End Girts Spacing (End)	A - B	1.385	-	1.700
	A - Z	-	1.385	1.700
	Z - B	-	1.385	1.700
End Girts Spacing (Internal)	A - B	1.385	-	1.700
	A - Z	-	1.385	1.700
	Z - B	-	1.385	1.700
Roller Door Header	A - B	HEADER3	-	
	A - Z	-	-	
	Z - B	-	-	
Roller Door Jambs	A - B	C20019	-	
	A - Z	-	-	
	Z - B	-	-	
PA Door Header	A - Z	-	-	
	Z - B	-	C10010	
PA Door Jambs	A - Z	-	-	
	Z - B	-	C10010	

Cladding Elements

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

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Specification Sheet

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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 Sheeting	COLORBOND® steel	CORODEK® 0.42 BMT (0.47TCT)
Wall Flashing	COLORBOND® steel	BlueScope 0.55 BMT

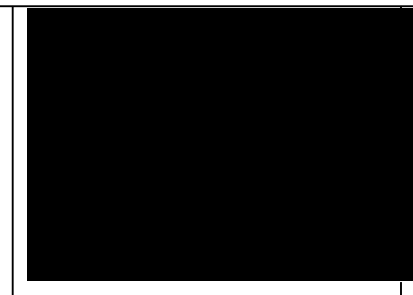
Pier Sizes

Adhesion (kPa)	Soil Description	Diameter (m)	Depth (m) - with Slab	
			BP1	BP2
0	Sandy Soil	0.3	0.45	0.7
		0.45	0.45	0.45
		0.6	0.45	0.45
25	Soft to Firm Clay	0.3	0.45	0.5
		0.45	0.45	0.45
		0.6	0.45	0.45
50	Stiff to Very Stiff Clay	0.3	0.45	0.5
		0.45	0.45	0.45
		0.6	0.45	0.45

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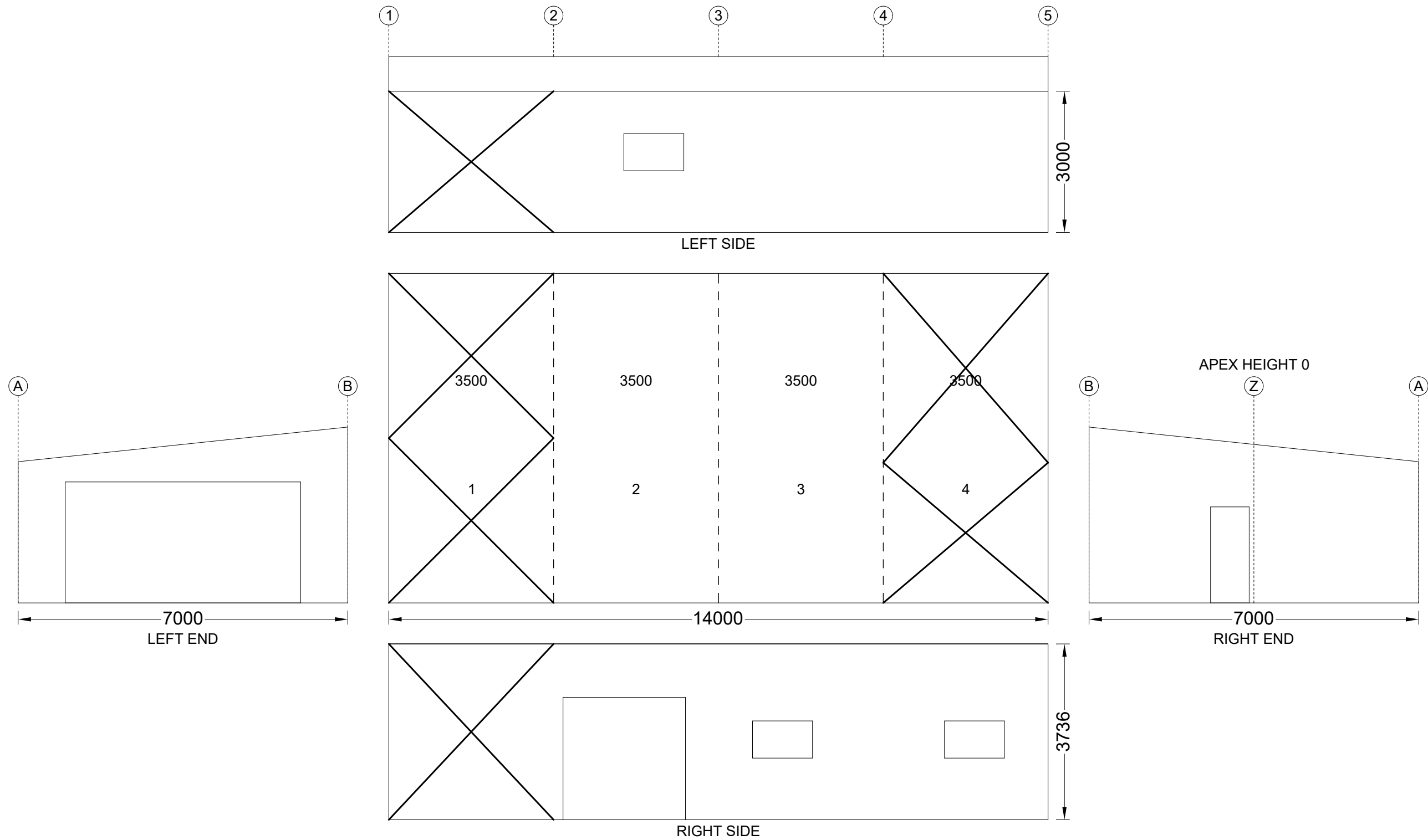
Specification Sheet

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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

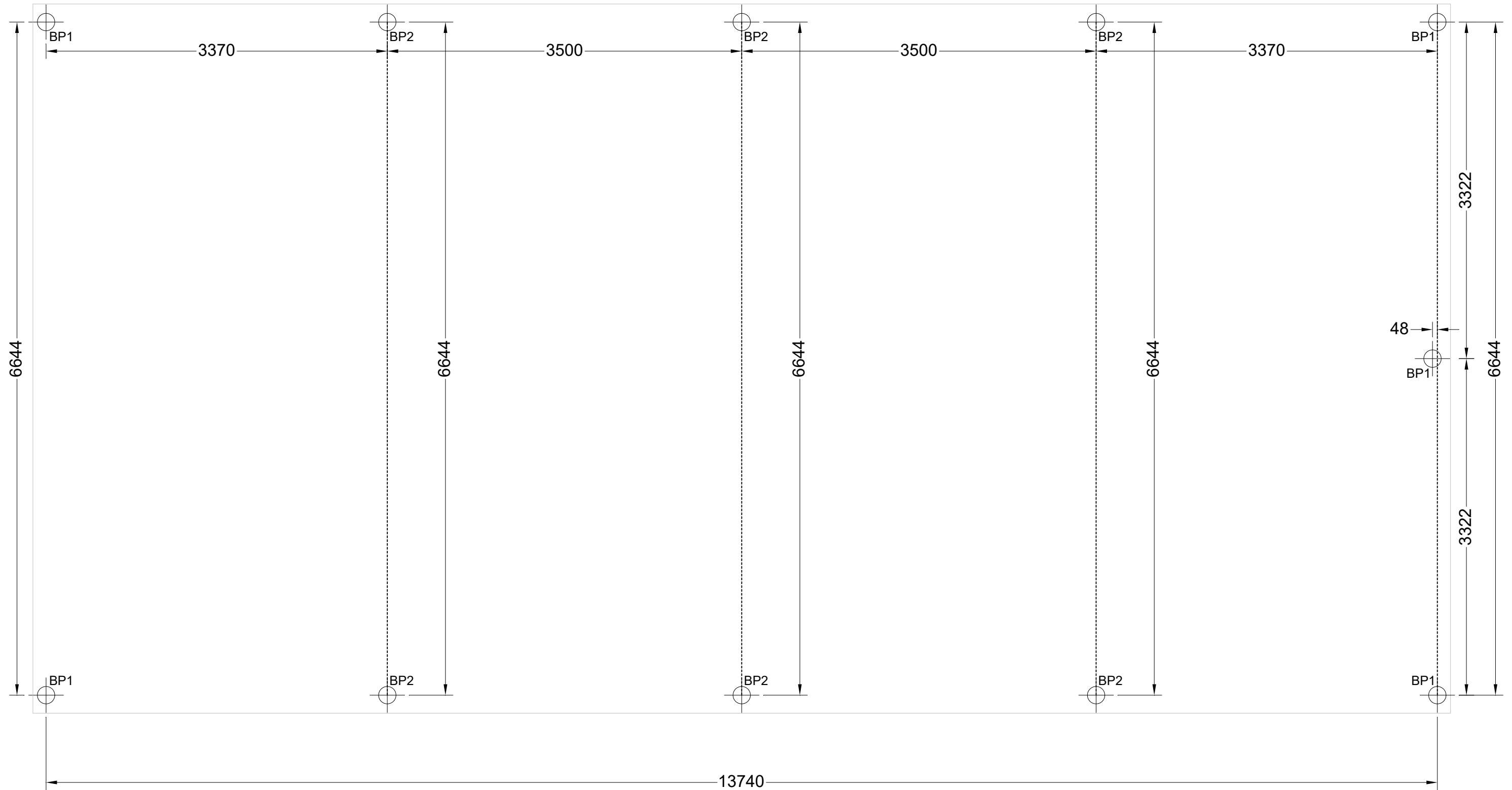
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These dimensions are provided as a guide only. It is the responsibility of the concreter to confirm that all dimensions are correct.
Refer to Material Specifications Plan for BP dimensions.



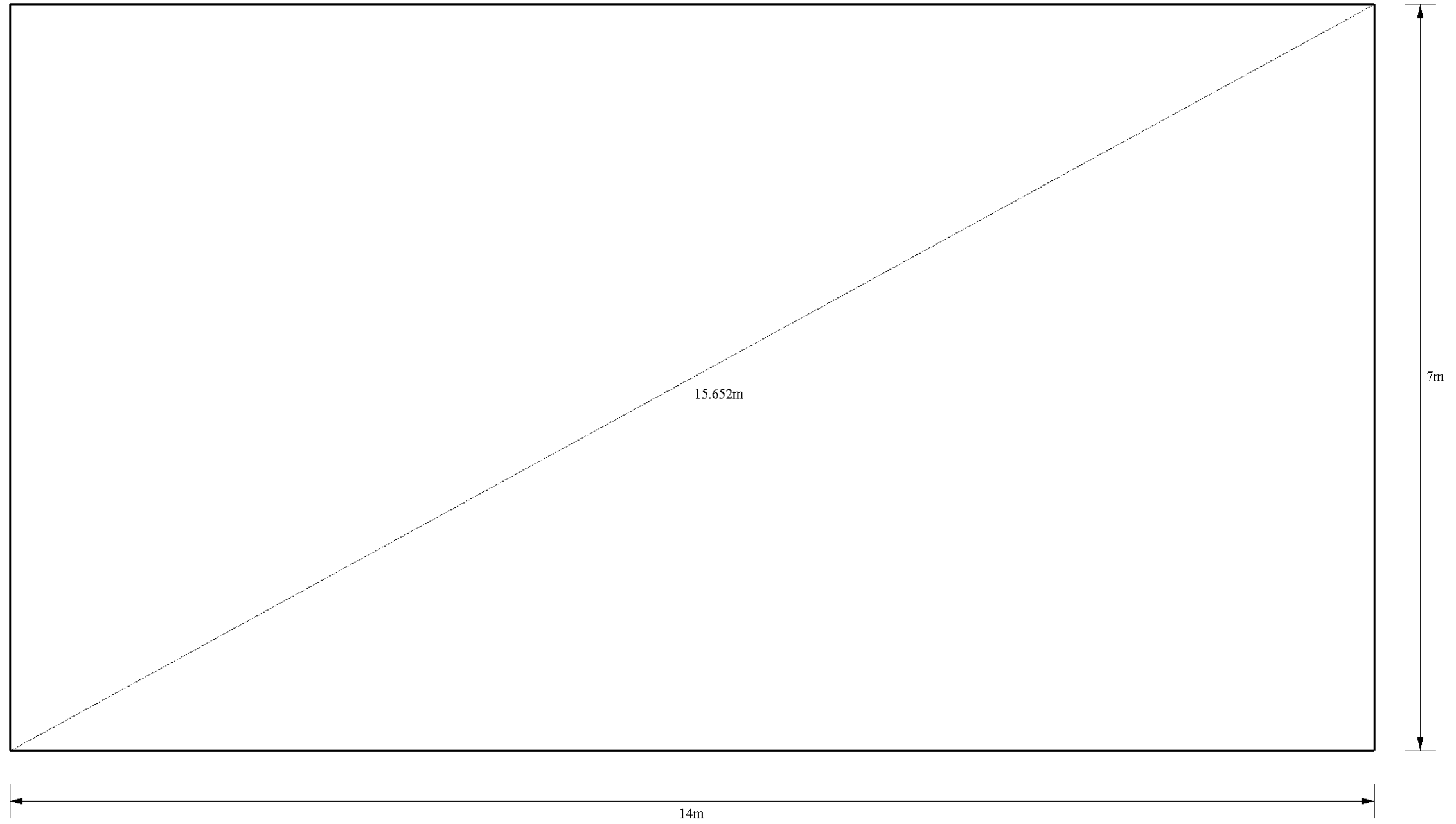
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Concrete Piers
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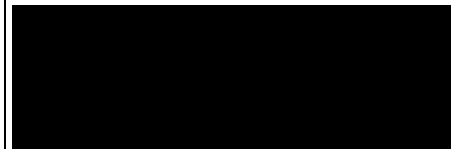
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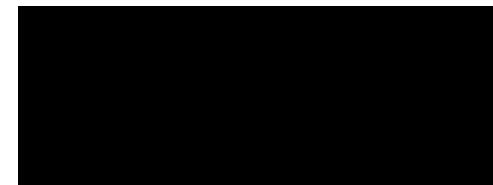
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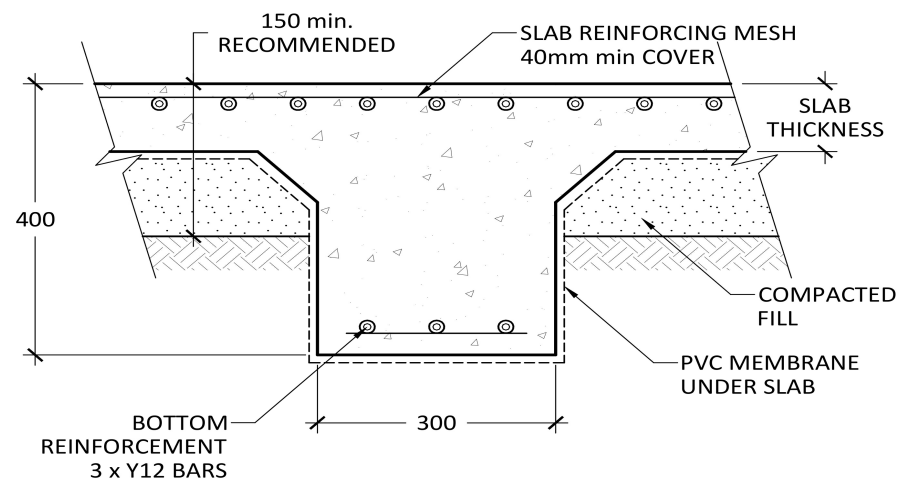
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Slab Dimensions
Also refer to Concrete Piers Plan
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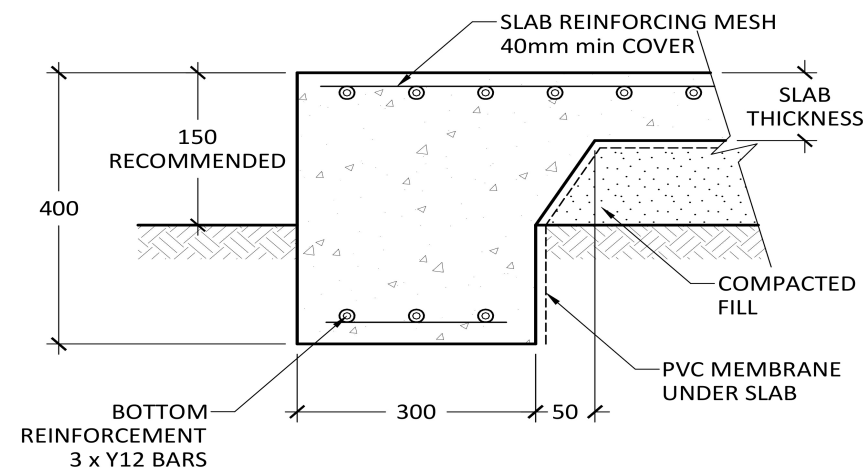


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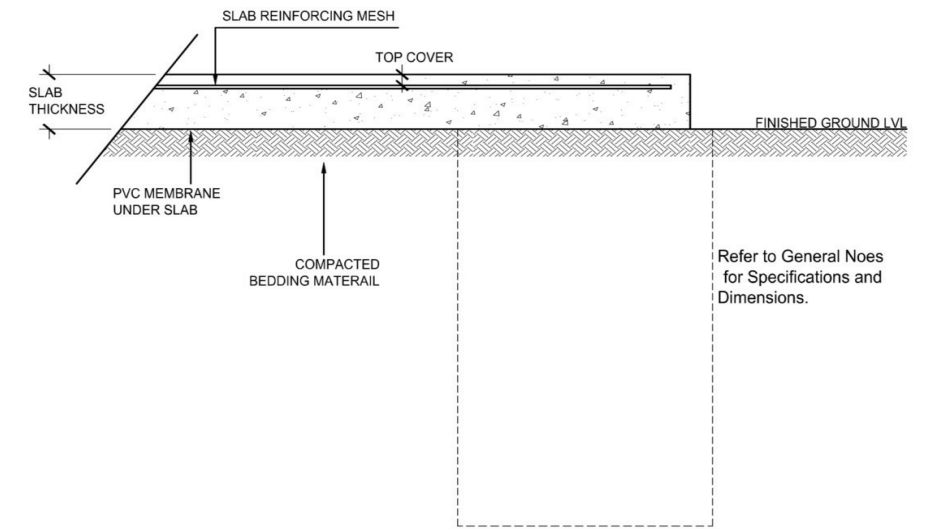




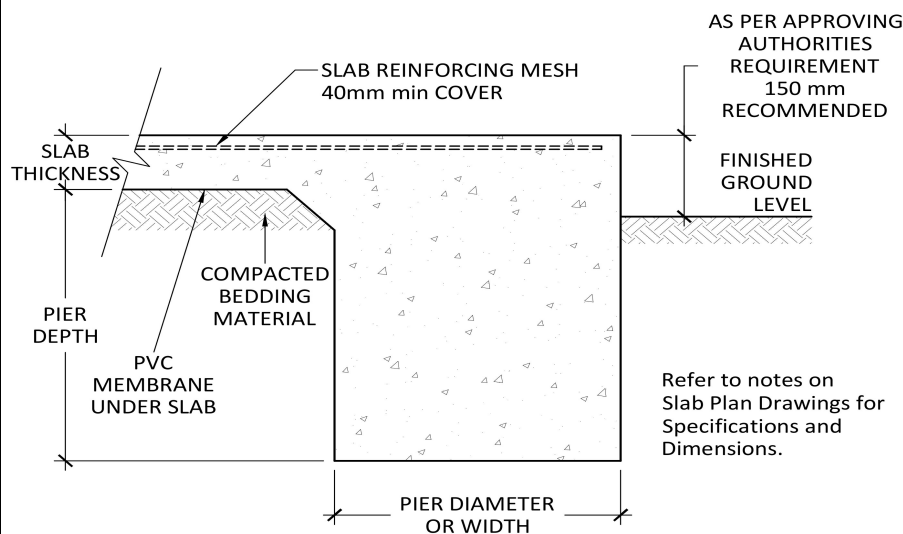
INTERNAL BEAM
(H1 & H2 SOIL TYPE, OPTIONAL A, S & M)



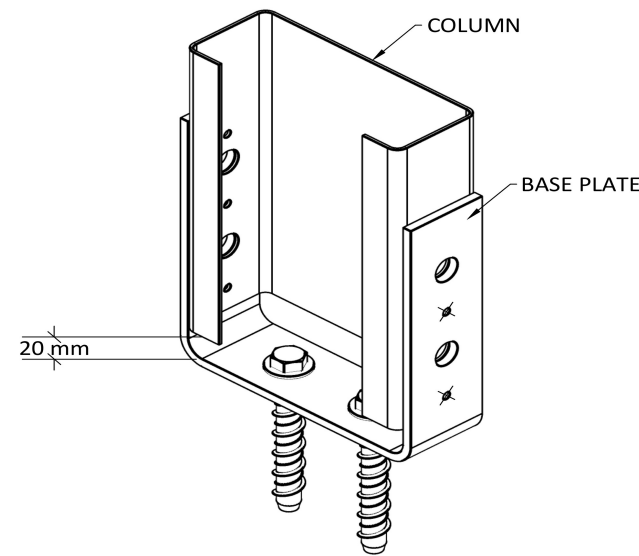
PERIMETER BEAM
(H1 & H2 SOIL TYPE, OPTIONAL A, S & M)



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

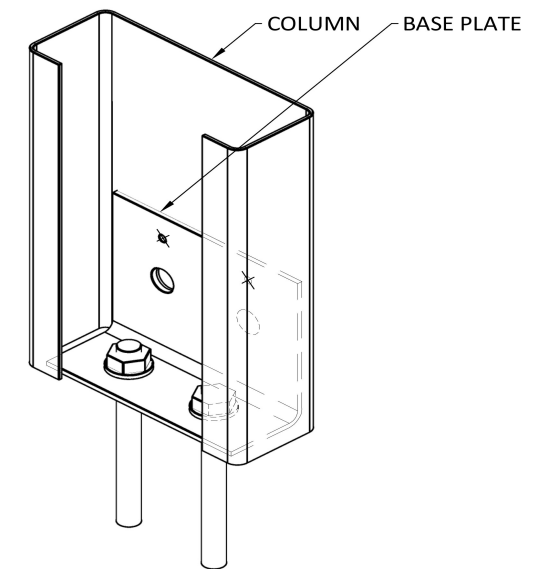


SLAB AND PIER DETAIL



- 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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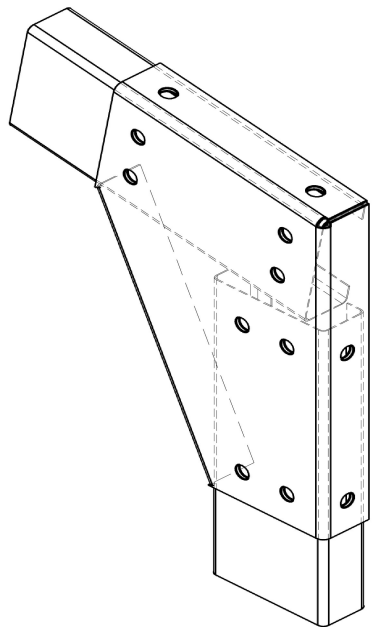
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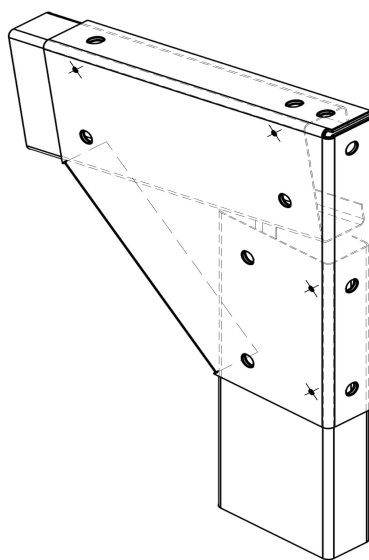
Connection Details

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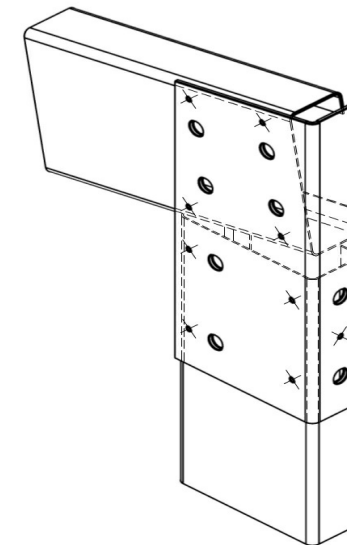
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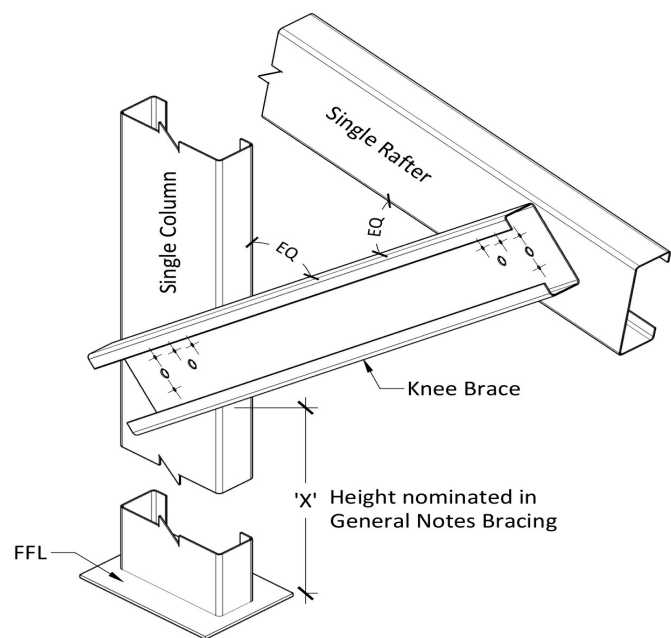
○ FIXING BOLTS - 12 of M12 x 30 (8.8)
KNEE HAUNCH BRACKET (HS&HT) - C150, 6°



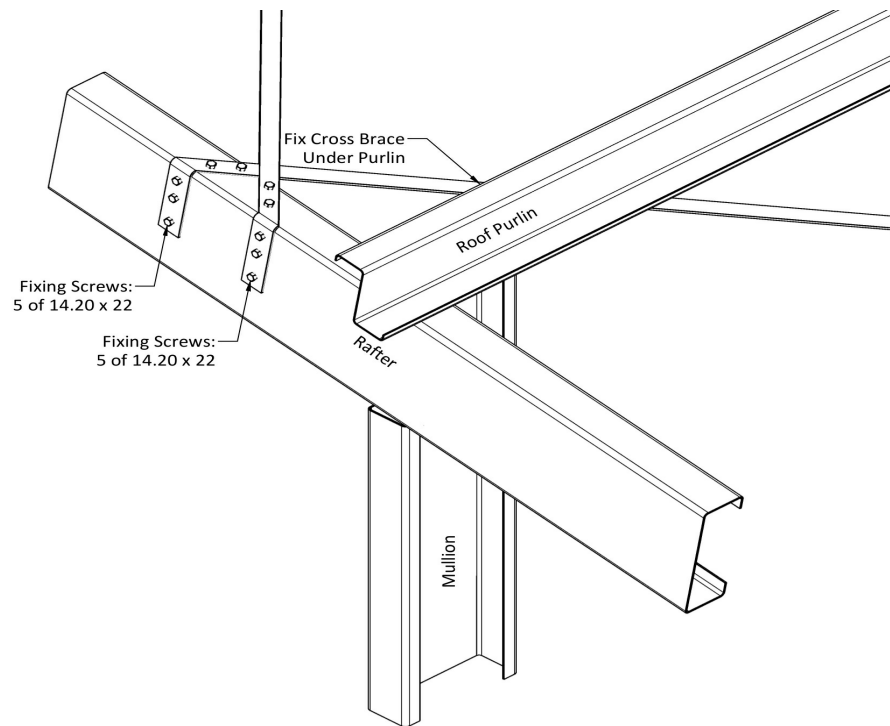
○ FIXING BOLTS - 8 of M12 x 30
 × FIXING SCREWS - 4 of 14.20 x 22
KNEE HAUNCH BRACKET - C150, 6°



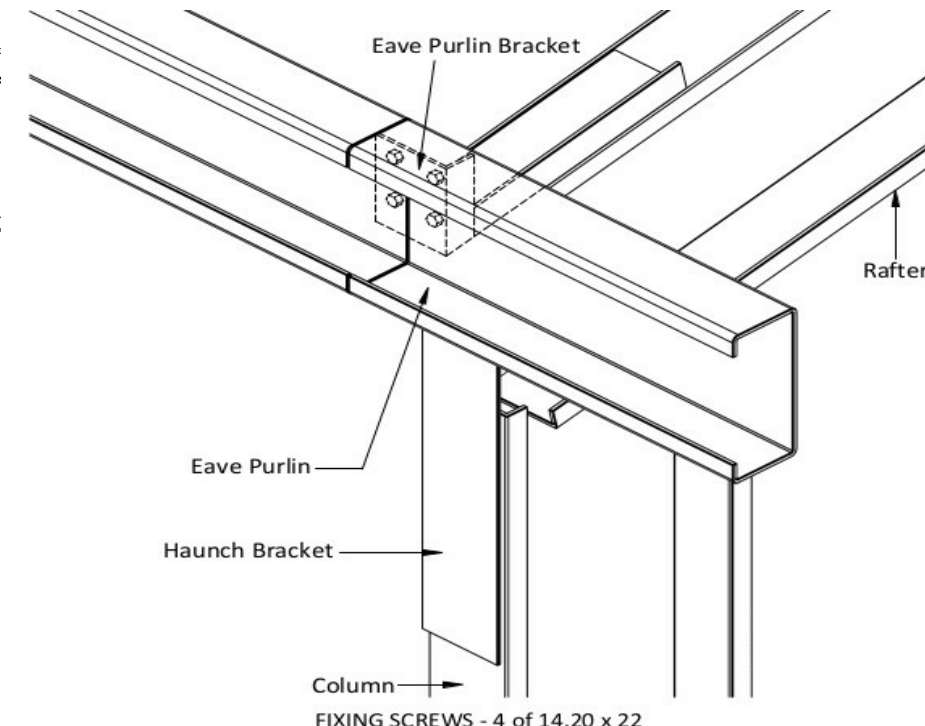
○ FIXING BOLTS - 8 of M12 x 30
 × FIXING SCREWS - 9 of 14.20 x 22
HAUNCH BRACKET - C150, 6°



○ FIXING BOLTS - 4 of M12 x 30
 × FIXING SCREWS - 8 of 14.20 x 22
C150 KNEE BRACE FOR SINGLE COLUMN + SINGLE RAFTER



BRACING CONNECTION



EAVE PURLIN TO EAVE PURLIN BRACKET

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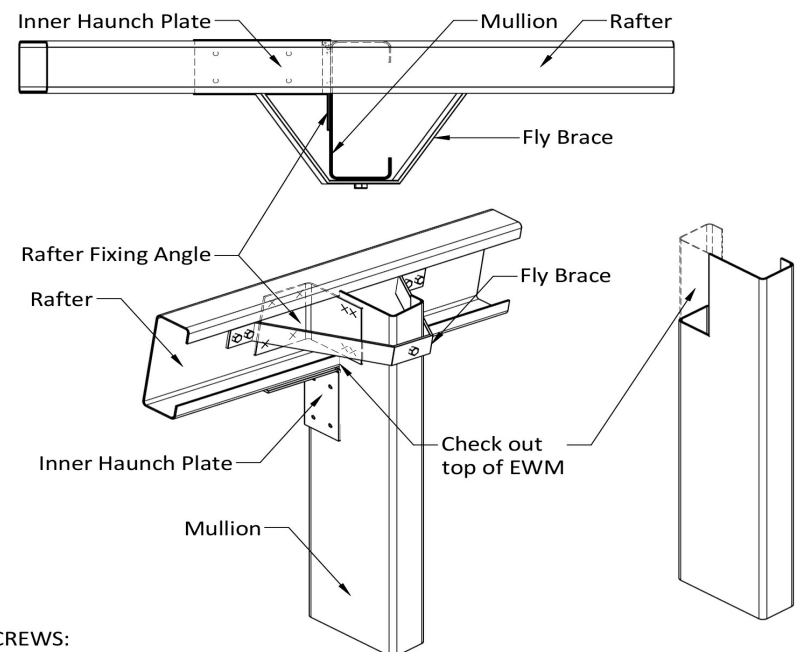
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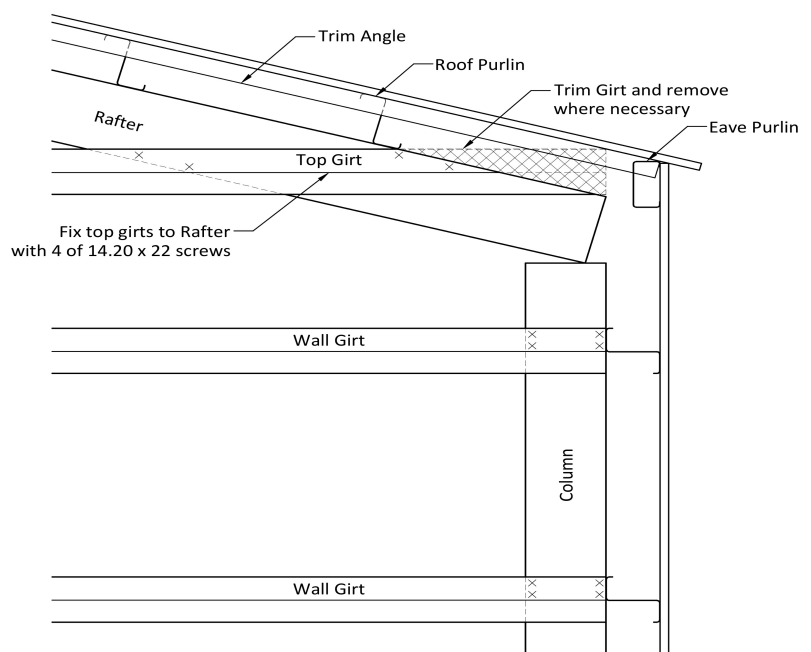
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FIXING SCREWS:
 RAFTER FIXING ANGLE - 8 of 14.20 x 22
 INNER HAUNCH PLATE - 8 of 14.20 x 22
 FLY BRACE - 5 of 14.20 x 22

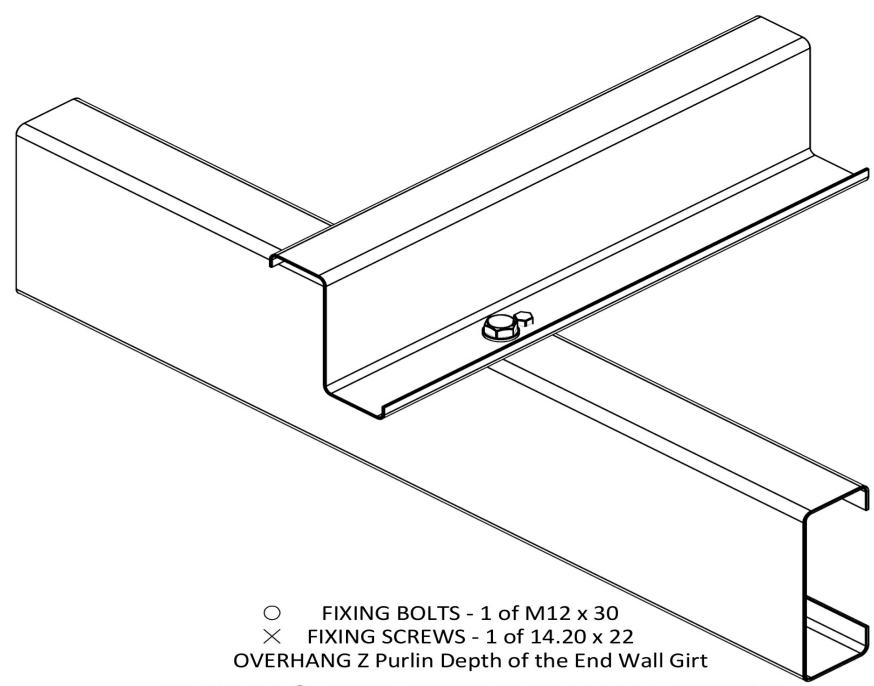
END WALL MULLION TO RAFTER



GABLE END TOP GIRT FIXING - Z

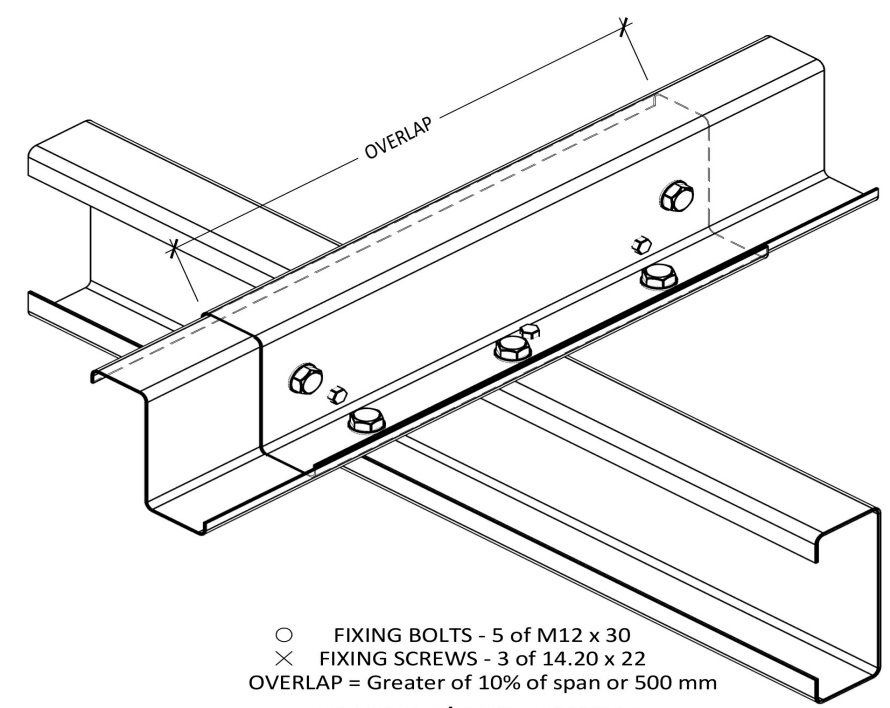


GIRT FIXING TO RAFTER - Z



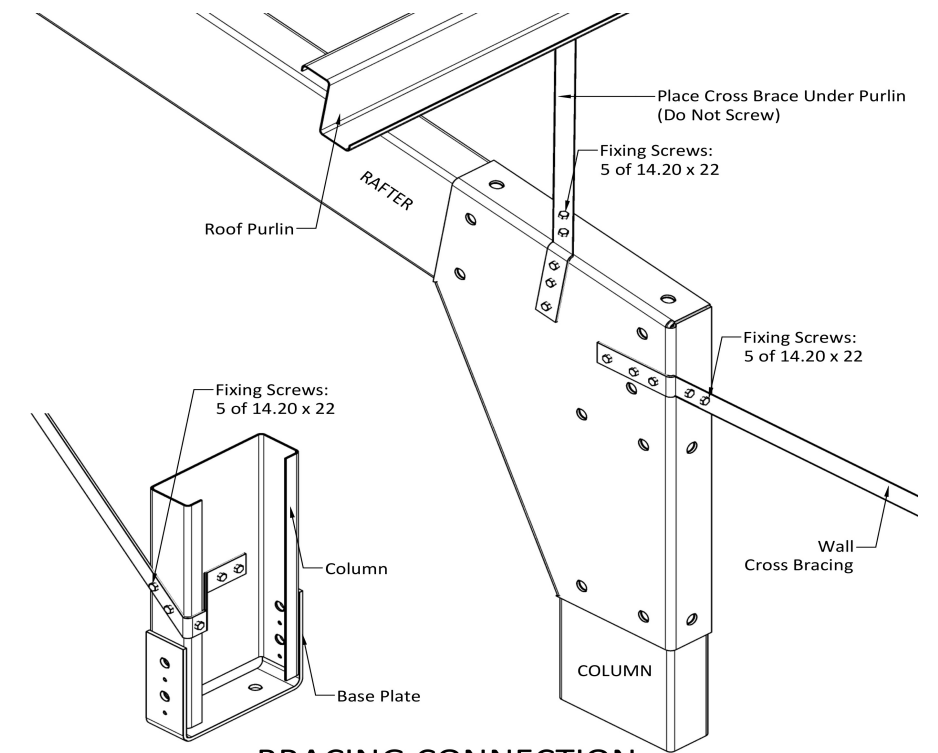
○ FIXING BOLTS - 1 of M12 x 30
 × FIXING SCREWS - 1 of 14.20 x 22
 OVERHANG Z Purlin Depth of the End Wall Girt

**PURLIN & SIDE GIRT 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**

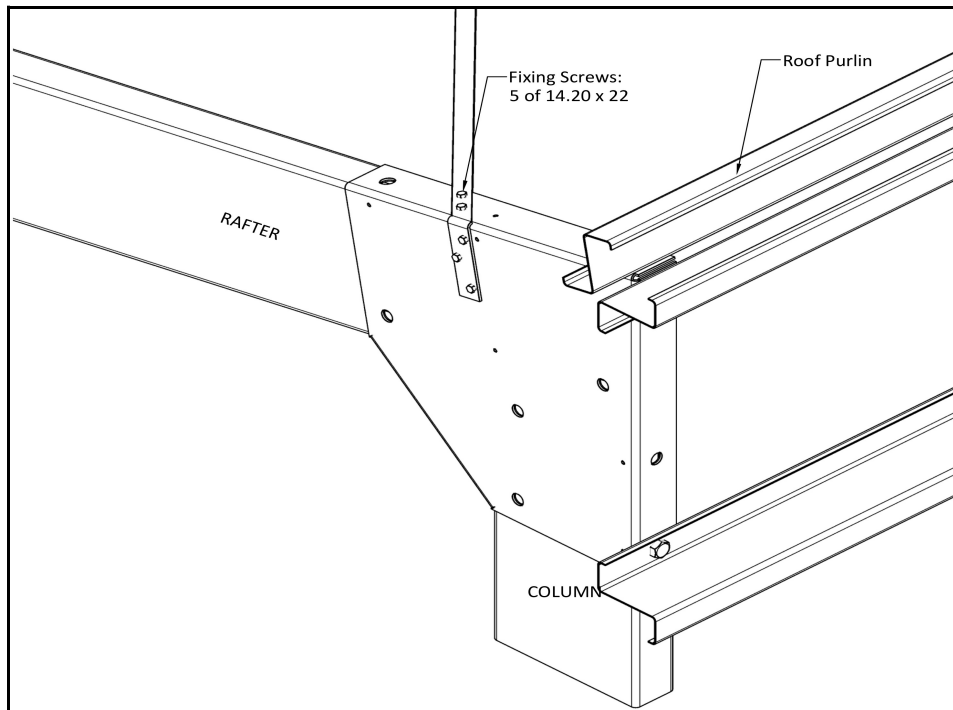


BRACING CONNECTION

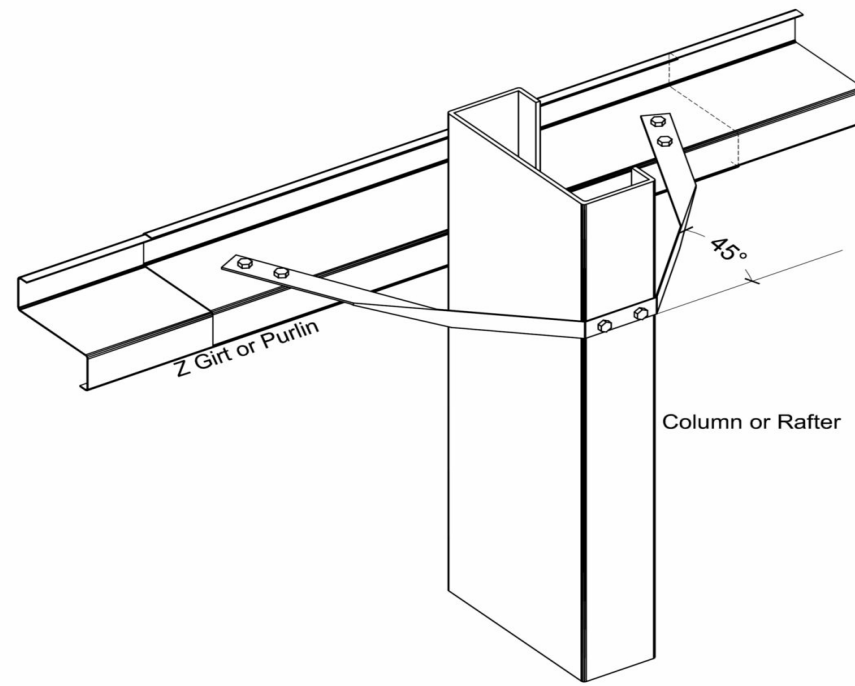
Purchaser Name: Nik Reed	
Site Address: 10 Robert Jones St Mudgee NSW 2850 Australia	
Drawing # TMJD214033 - 8	Print Date: 06/12/21

Connection Details
 Not to Scale
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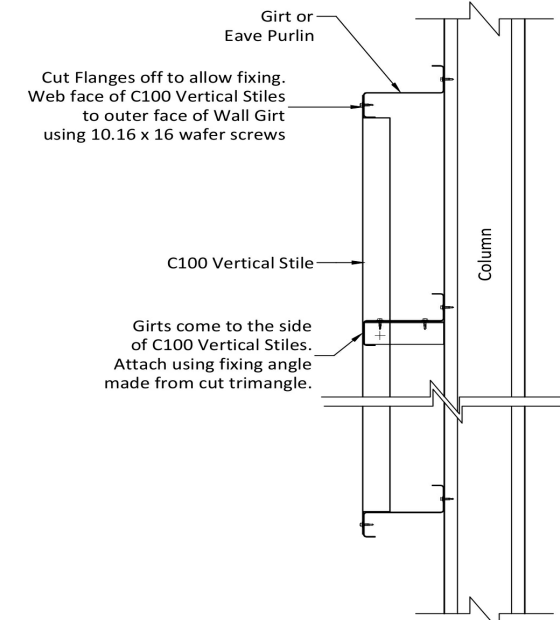
Apex Engineering Group PTY LTD
 ACN 632 588 562
 ME Aust. (Registered NER Structural) 5276680
 QLD : RPEQ No. 24223; TAS : 185770492; VIC : PE0003848; N.T. : 303557ES;
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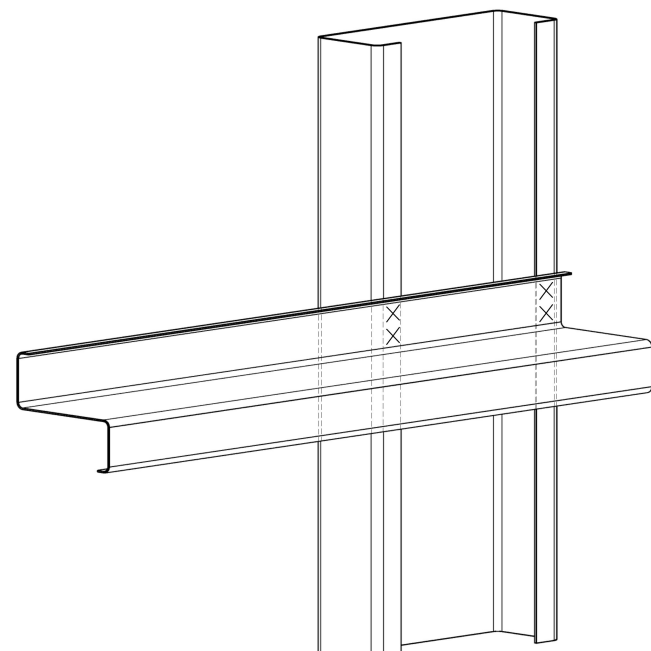
BRACING CONNECTION AT HIGH END (SKILLION)



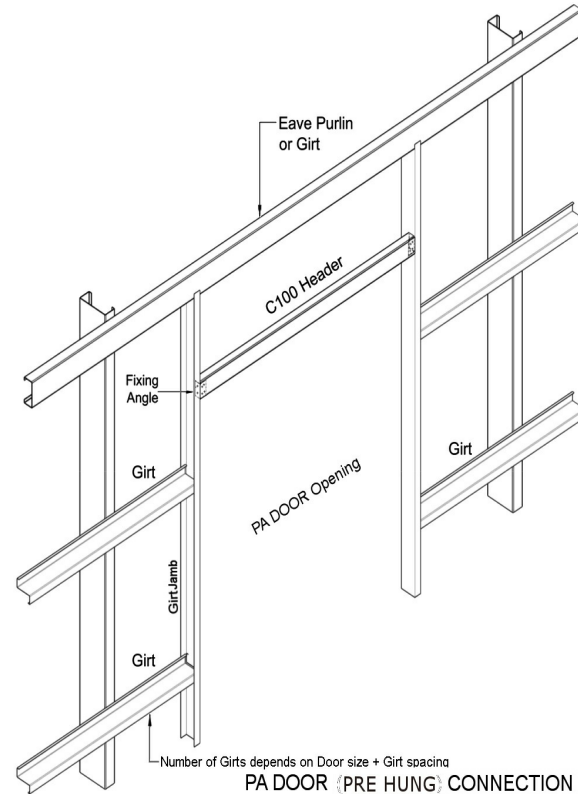
FLY BRACING
FIXING SCREWS - 6 of 14.20 x 22



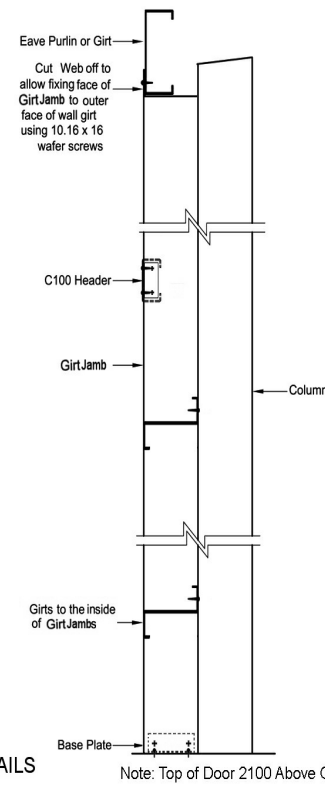
Note: Top of Window 2100 above GL
Window frame fixed to vertical stiles only



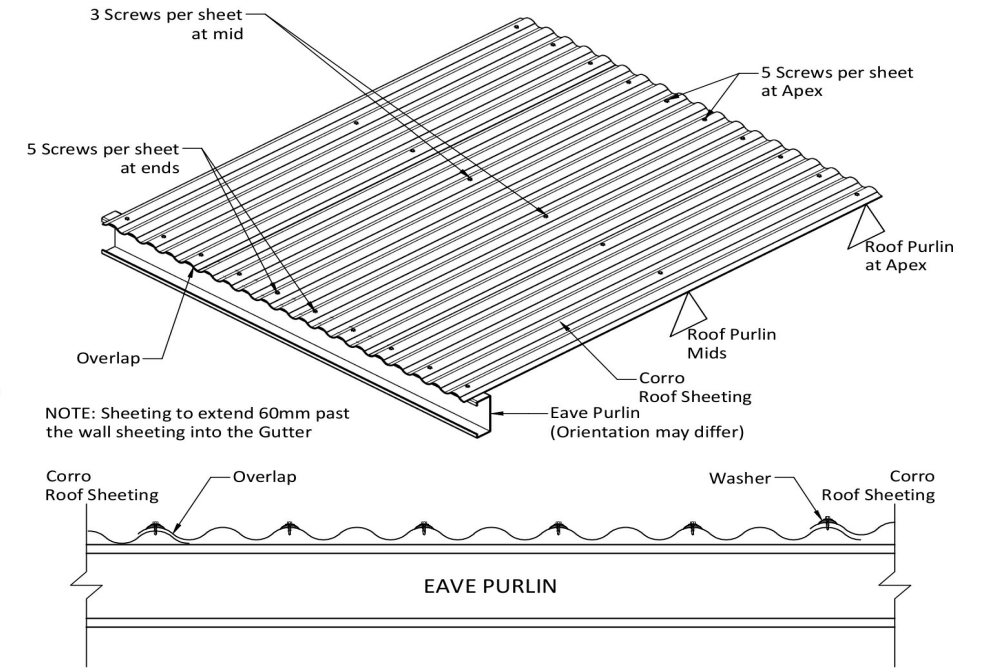
× FIXING SCREWS - 4 of 14.20 x 22
GIRT FIXING - Z



PA DOOR (PRE HUNG) CONNECTION DETAILS



Note: Top of Door 2100 Above GL



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

CORRO ROOF SHEET FIXING

Purchaser Name: Nik Reed

Site Address: 10 Robert Jones St Mudgee NSW 2850 Australia

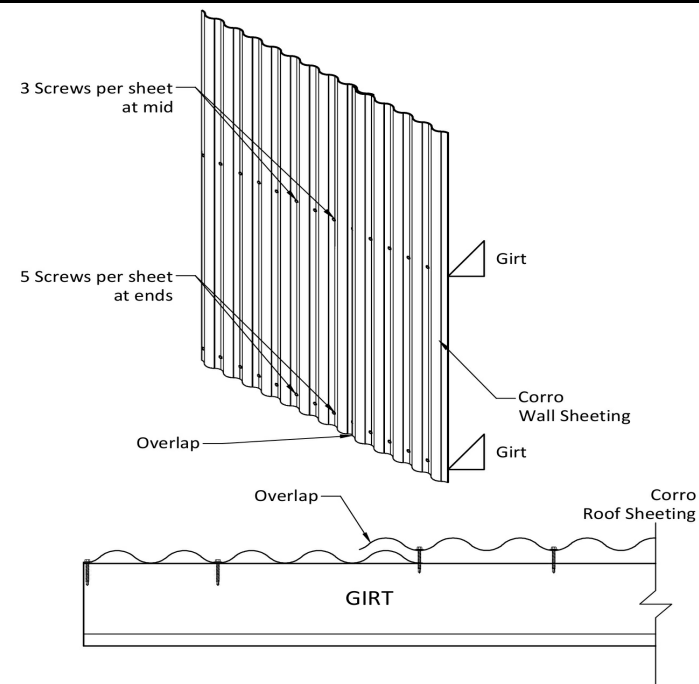
Drawing # TMJD214033 - 8

Print Date: 06/12/21

Connection Details

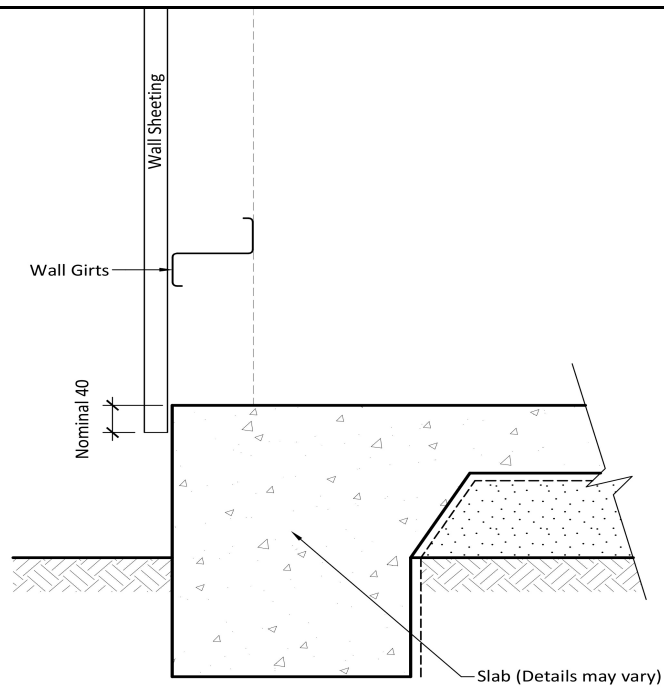
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Wall Screws - 10.16 x 16 Hex

WALL SHEETING CONNECTION DETAILS



WALL SHEET OVERHANG DETAIL

Purchaser Name: Nik Reed

Site Address: 10 Robert Jones St Mudgee NSW 2850 Australia

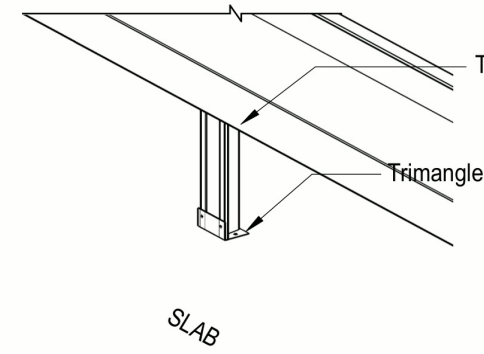
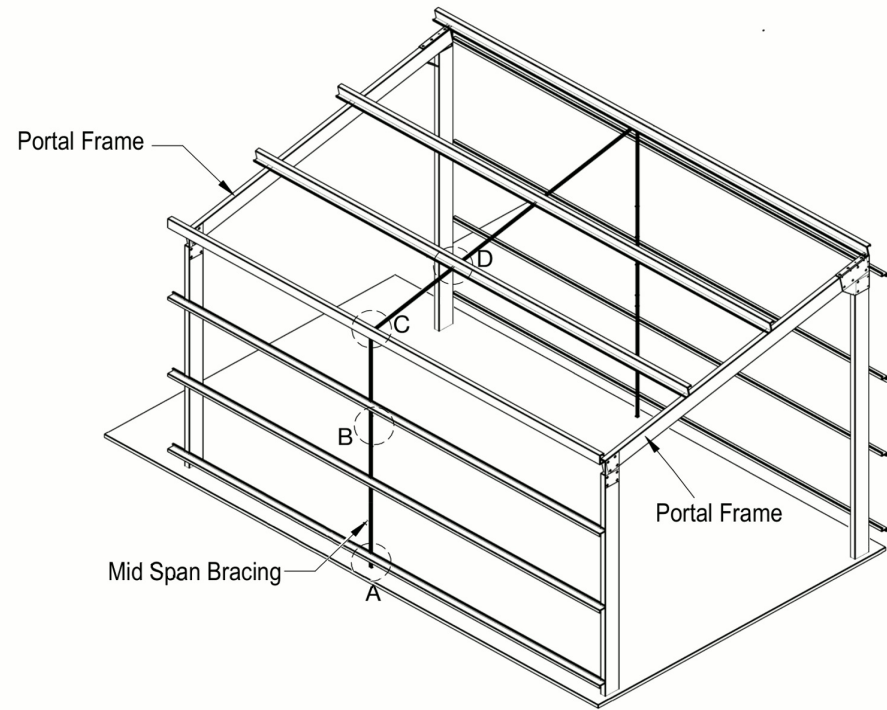
Drawing # TMJD214033 - 8

Print Date: 06/12/21

Connection Details

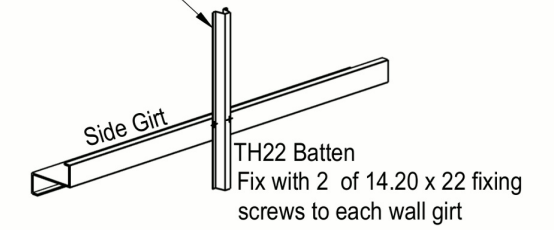
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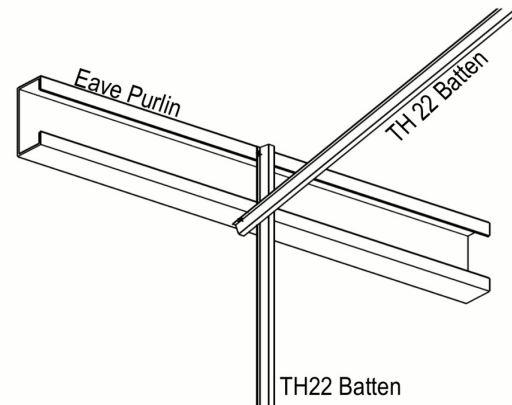


Detail at A

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

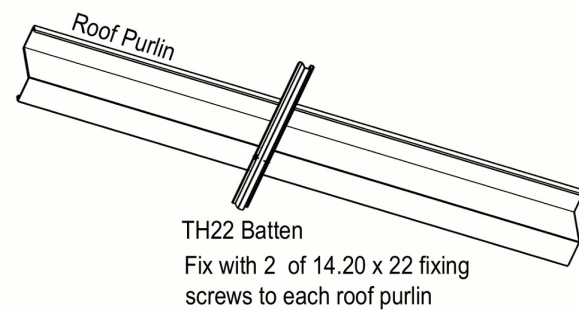


Detail at B

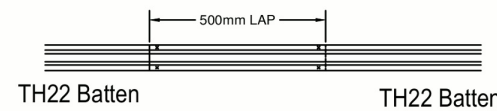


Detail at C

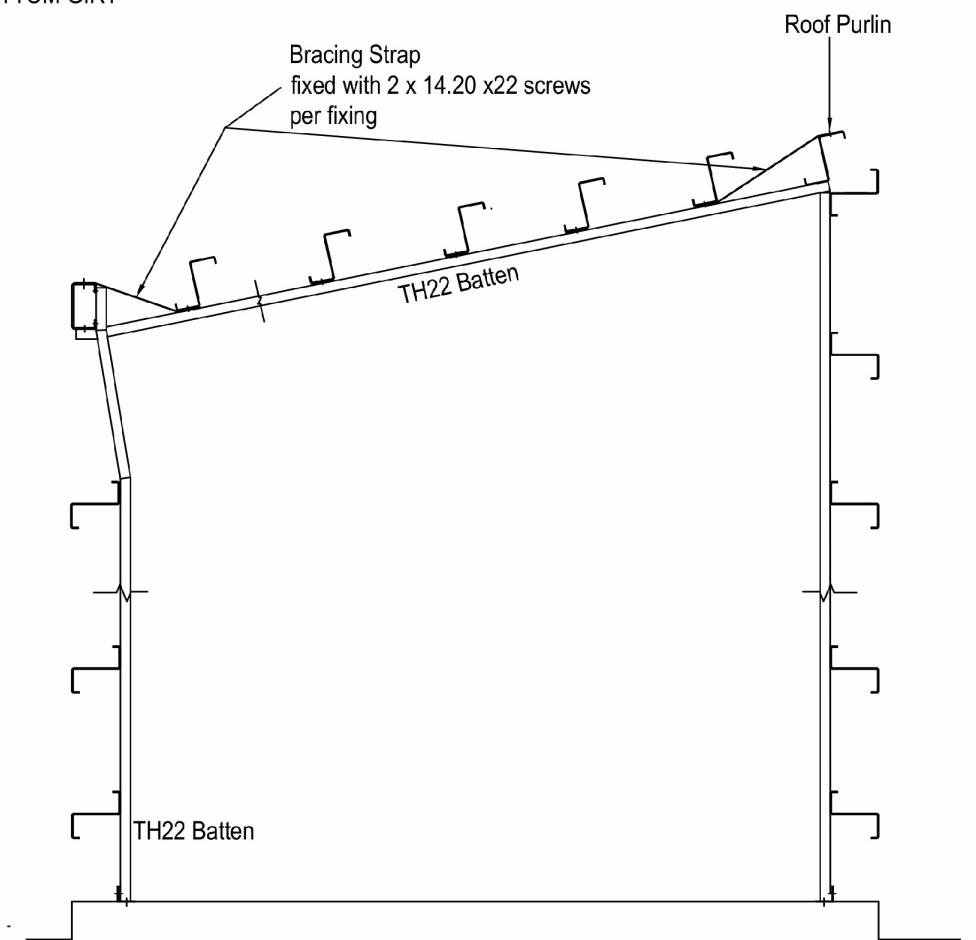
Fix Rafter batten with 2 of 14.20 x 22 screws to Eave Purlin
 Fix vertical batten with 2 of 14.20 x 22 screws to each eave purlin lip



Detail at D



Batten Overlap

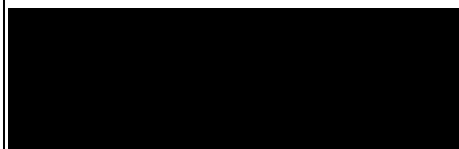


Note: Fix Bracing Strap First, then fix batten over bracing strap to maintain line.

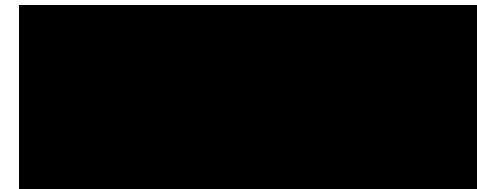
Note: Mid Span Bracing is located midbay equidistant from each portal frame.
 To extend battens, Lap battens 50mm with 4 screws

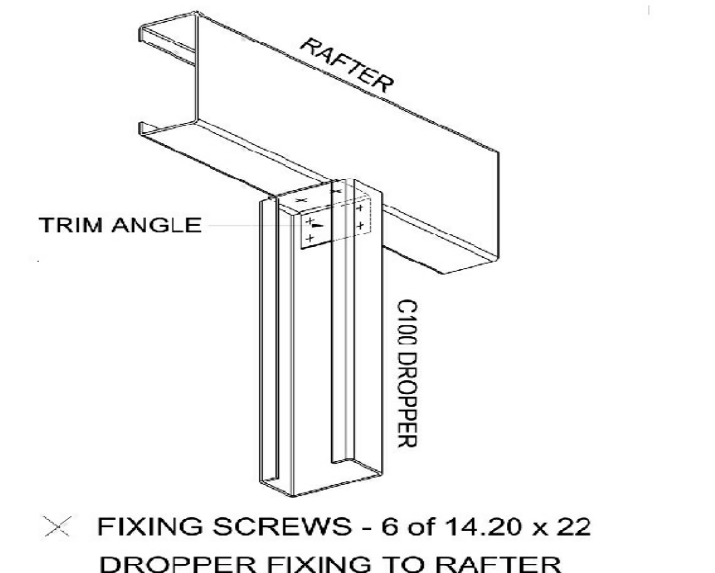
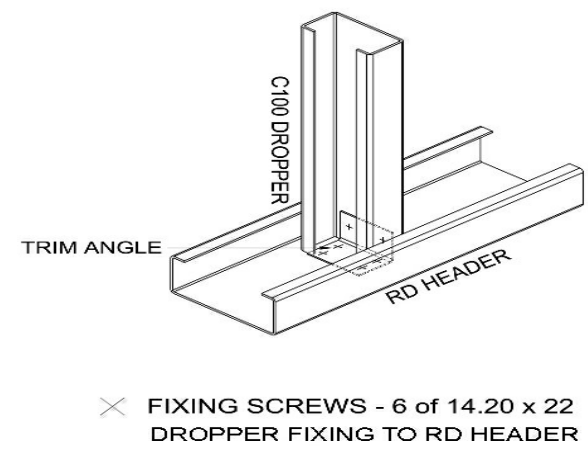
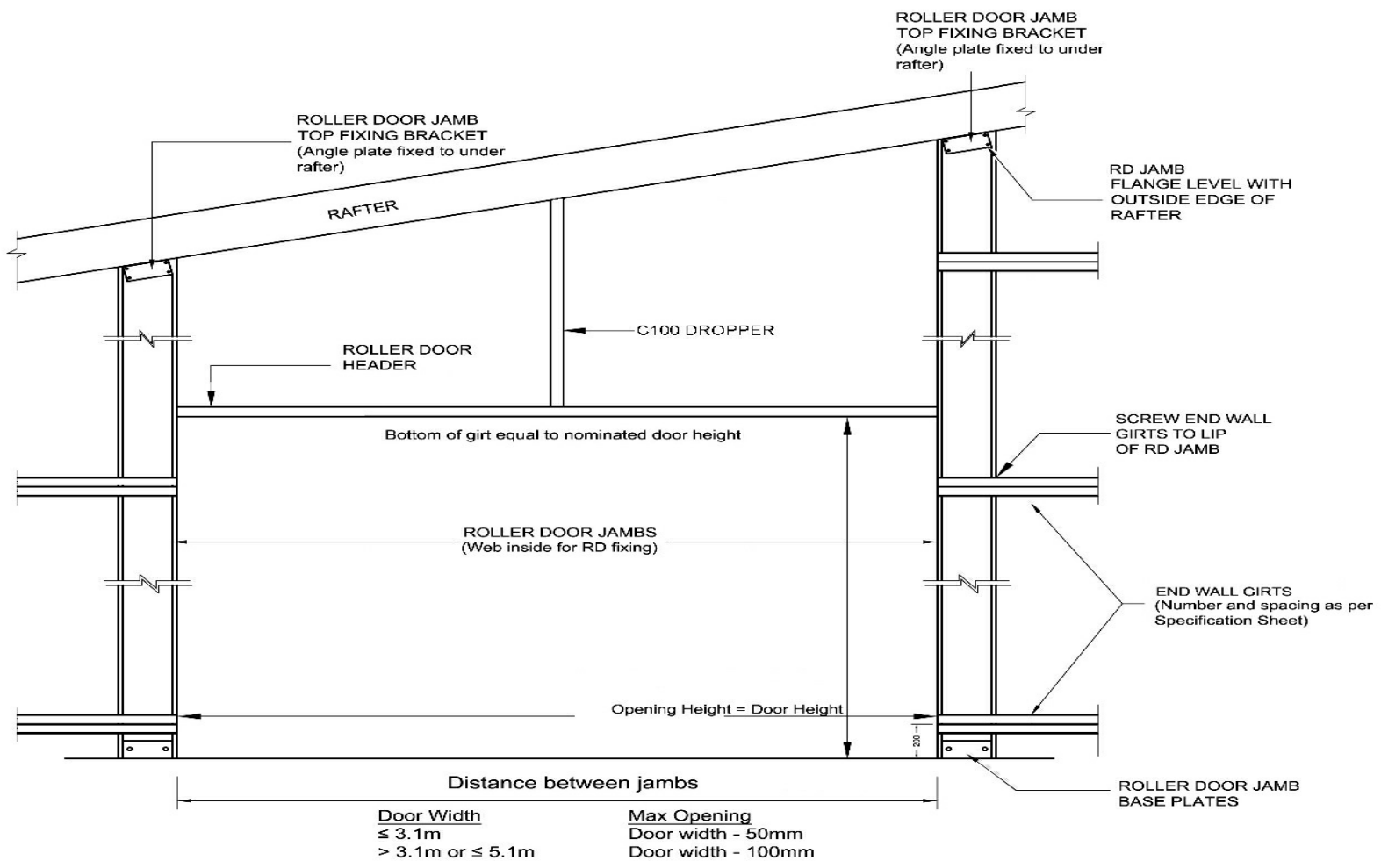
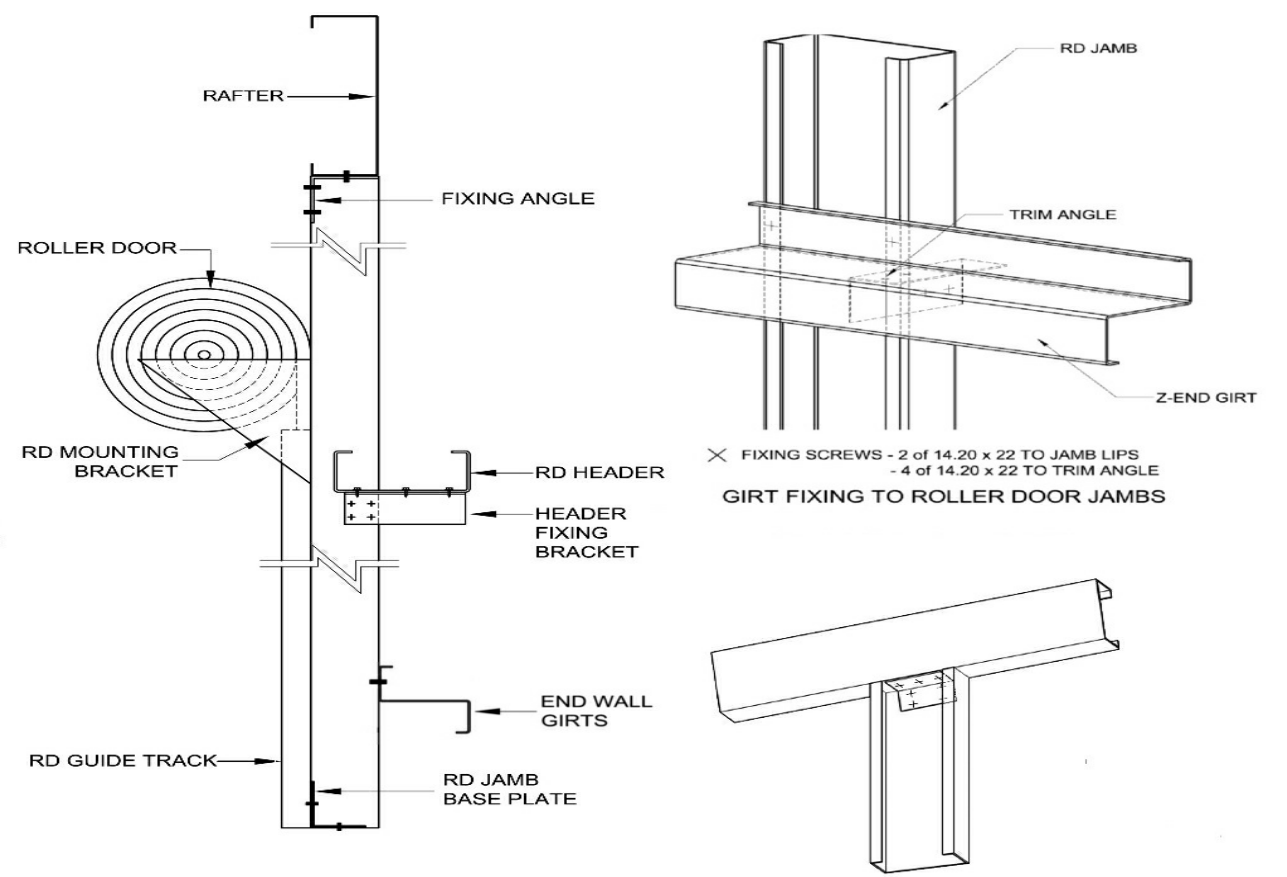
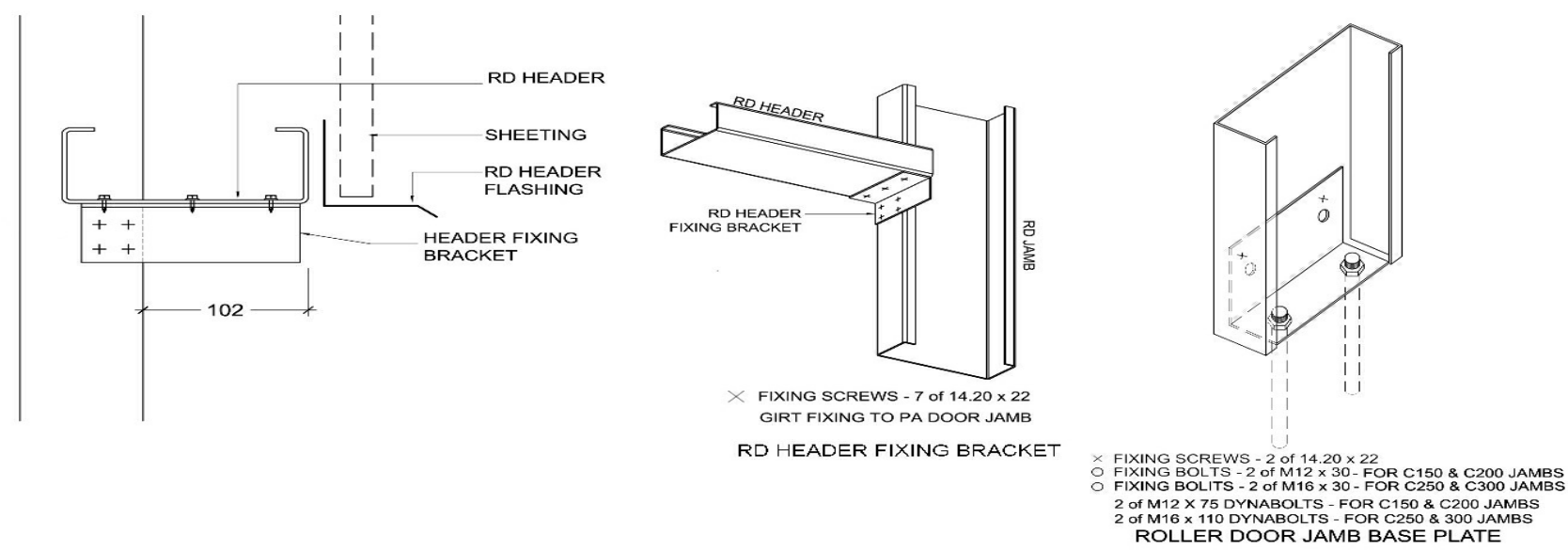
Purchaser Name: Nik Reed	
Site Address: 10 Robert Jones St Mudgee NSW2850 Australia	
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ROLLER DOOR DETAILS
(Door over 4.0m)
Gable end wall ONLY

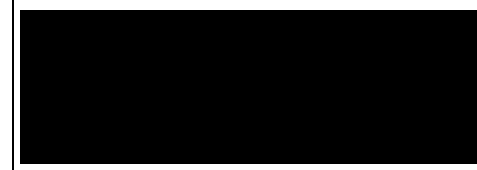
Purchaser Name: Nik Reed

Site Address: 10 Robert Jones St Mudgee NSW2850 Australia

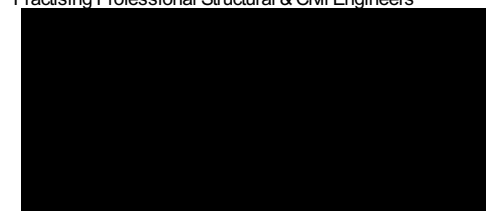
Drawing # TMJD214033 - 8

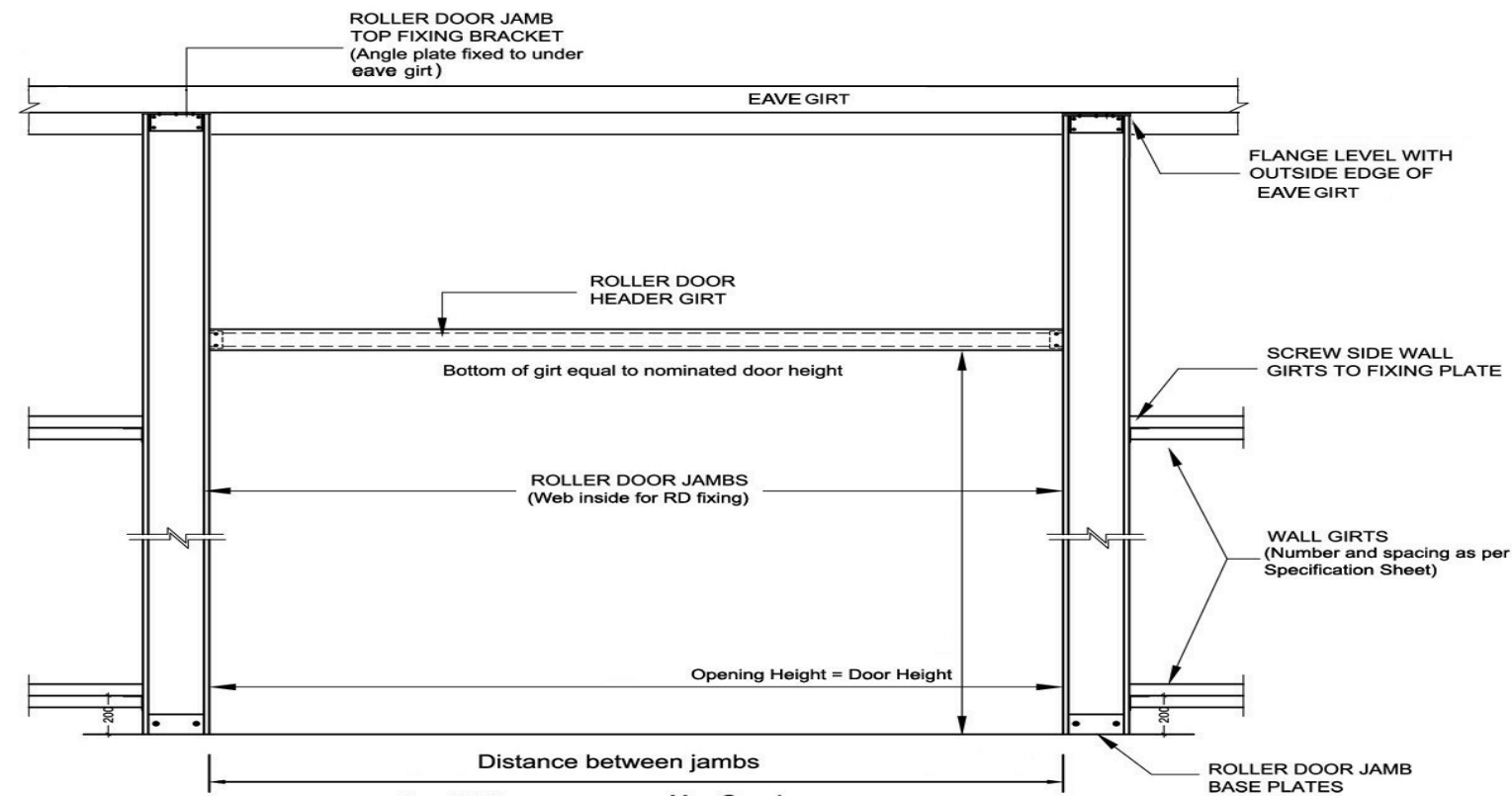
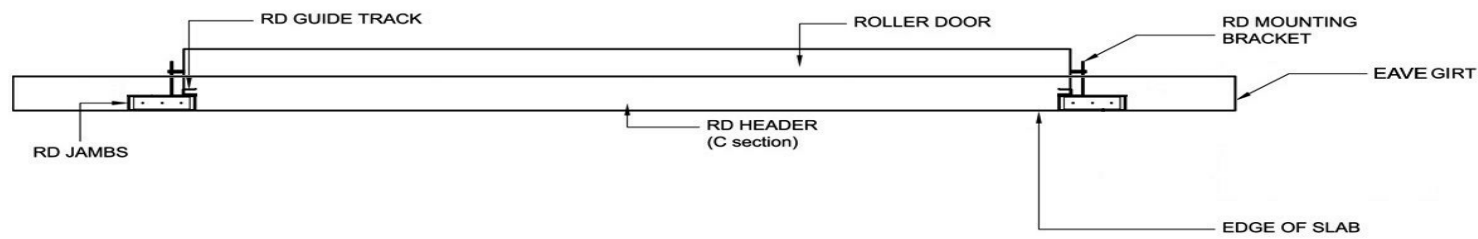
Print Date: 06/12/21

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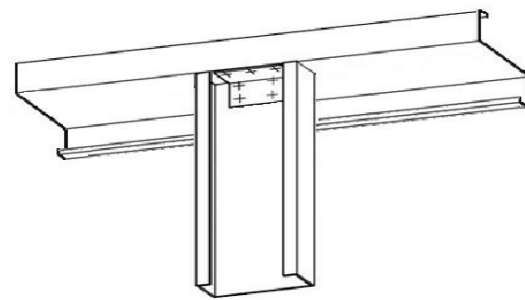
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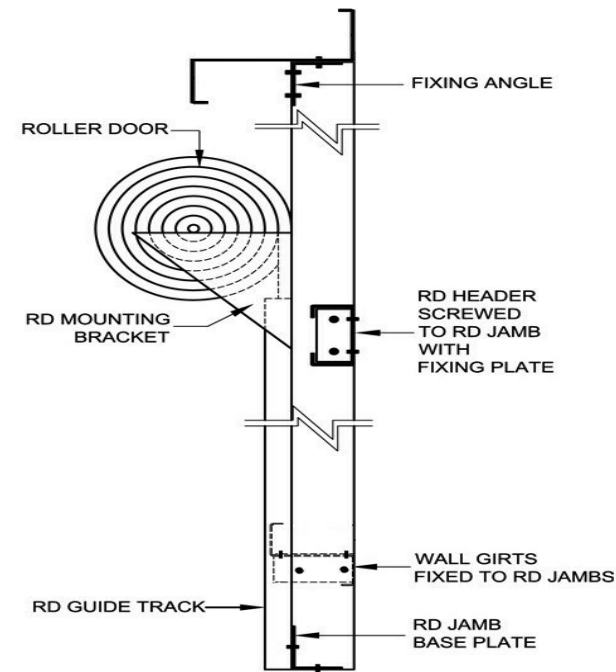
Door Width
 ≤ 3.1m
 > 3.1m or ≤ 5.1m

Max Opening
 Door width - 50mm
 Door width - 100mm



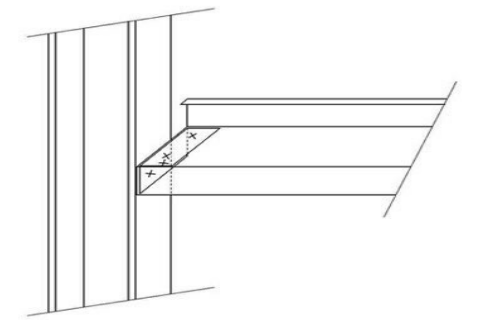
○ FIXING BOLTS - NIL
 × FIXING SCREWS - 7 x 14.20 x 22

ROLLER DOOR JAMB TOP FIXING

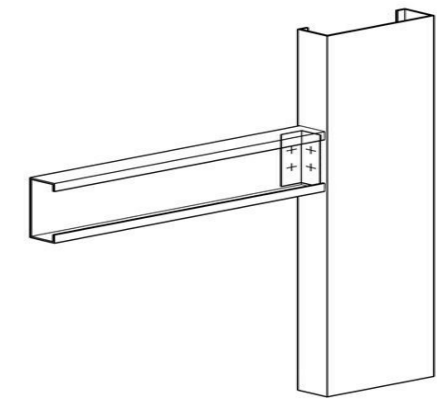


× FIXING SCREWS - 2 of 14.20 x 22
 ○ FIXING BOLTS - 2 of M12 x 30 - FOR C150 & C200 JAMBS
 ○ FIXING BOLTS - 2 of M16 x 30 - FOR C250 & C300 JAMBS
 2 of M12 x 75 DYNABOLTS - FOR C150 & C200 JAMBS
 2 of M16 x 110 DYNABOLTS - FOR C250 & 300 JAMBS

ROLLER DOOR JAMB BASE PLATE



× FIXING SCREWS - 4 of 14.20 x 22
GIRT FIXING TO ROLLER DOOR JAMBS



× FIXING SCREWS - 4 of 14.20 x 22
ROLLER DOOR HEADER FIXING

ROLLER DOOR DETAILS
 Side walls ONLY

Purchaser Name: Nik Reed

Site Address: 10 Robert Jones St Mudgee NSW2850 Australia

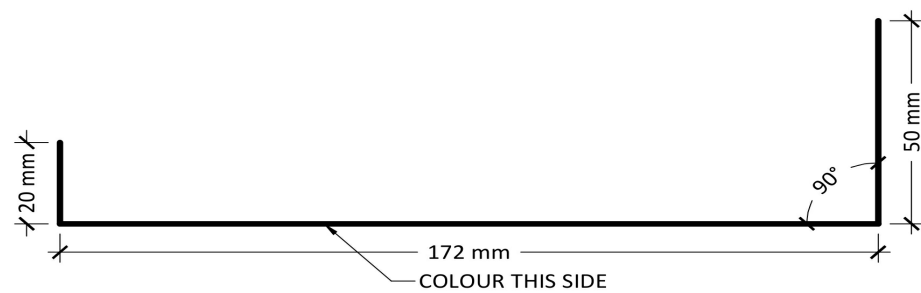
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Print Date: 06/12/21

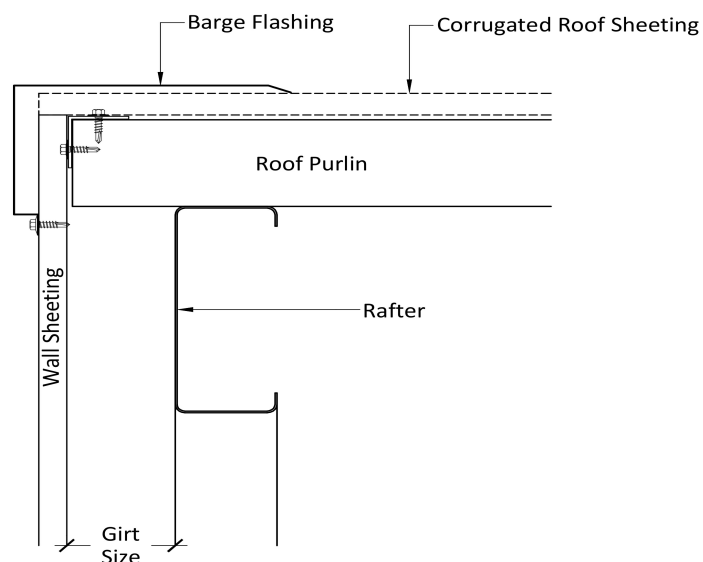
Connection Details

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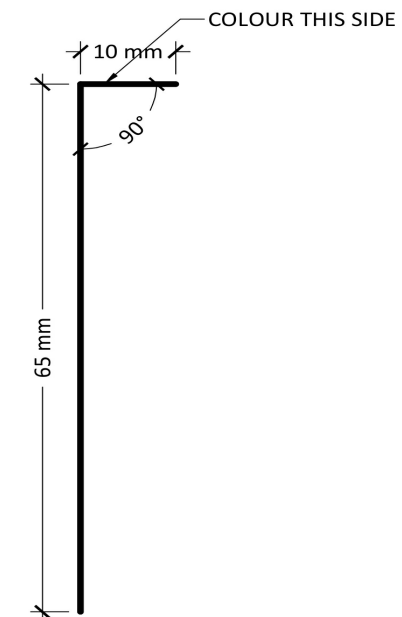
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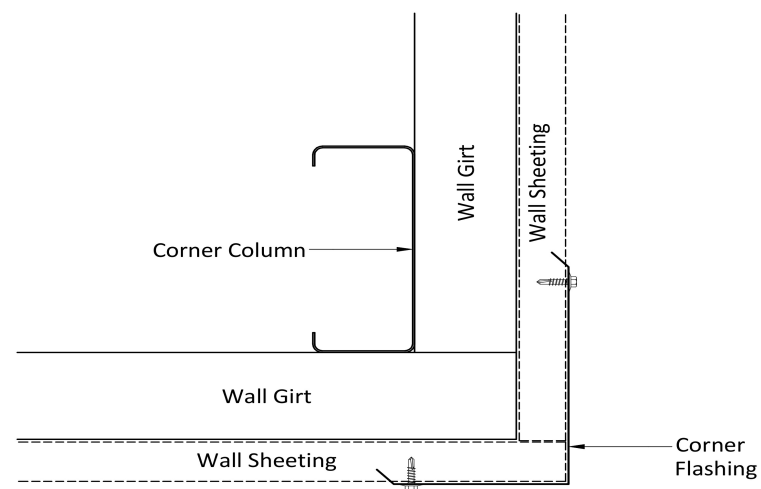
RD Head Cover Flashing
XF118



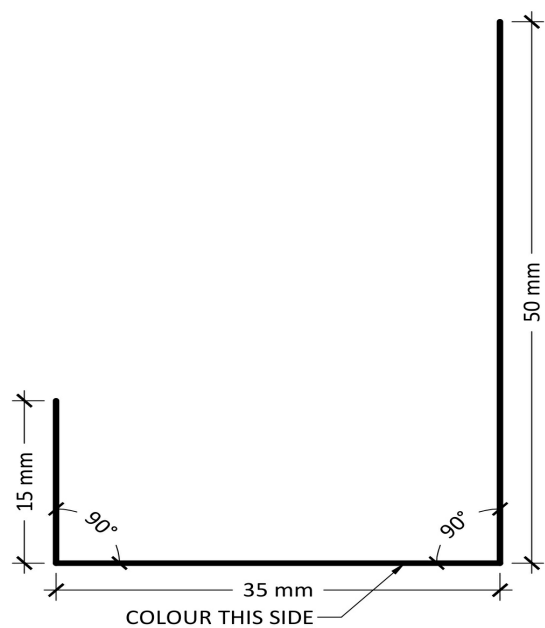
Barge Flashing XF12 - Sheeting Gable



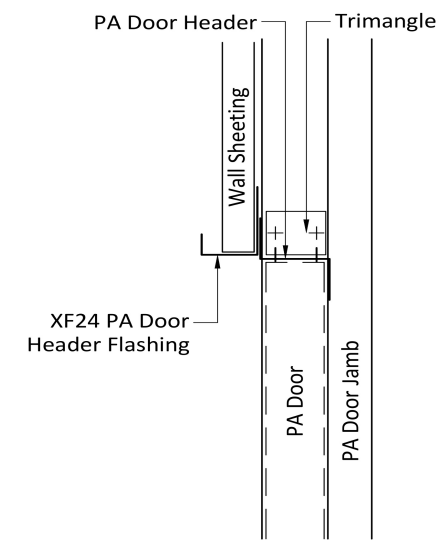
RD Side - Cover Flash
XF18



Corner Flashing XF21 - CT



PA Door - RD Header Flashing
XF24



PA Door Header Flashing - XF24

Purchaser Name: Nik Reed

Site Address: 10 Robert Jones St Mudgee NSW2850 Australia

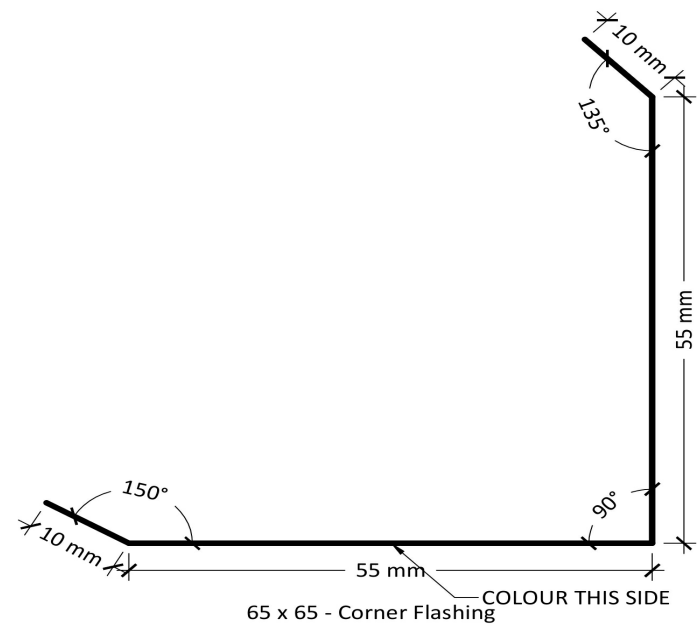
Drawing # TMJD214033 - 9

Print Date: 06/12/21

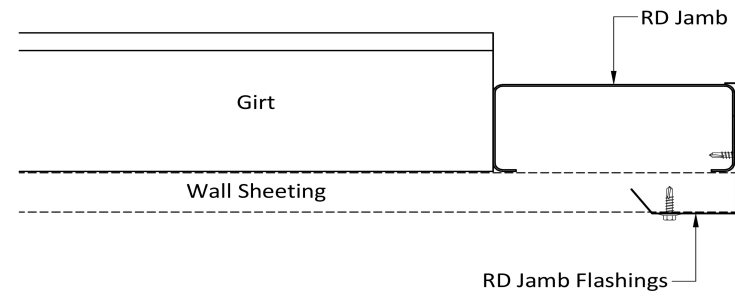
Flashing Fixing Details

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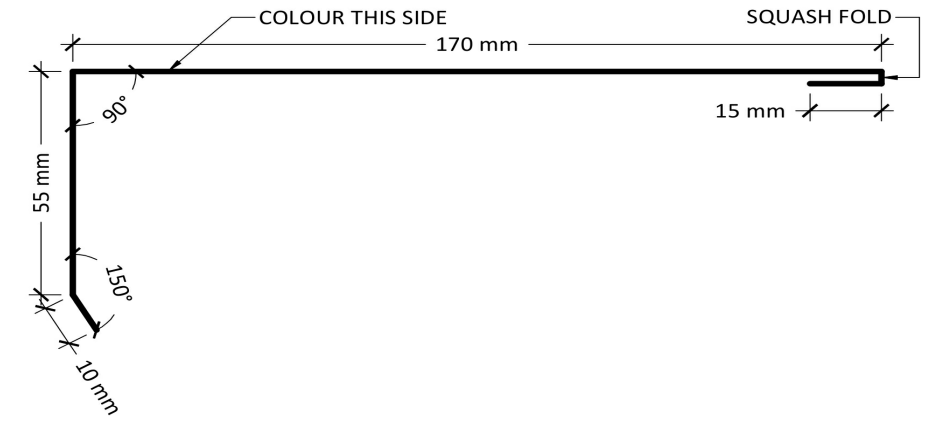
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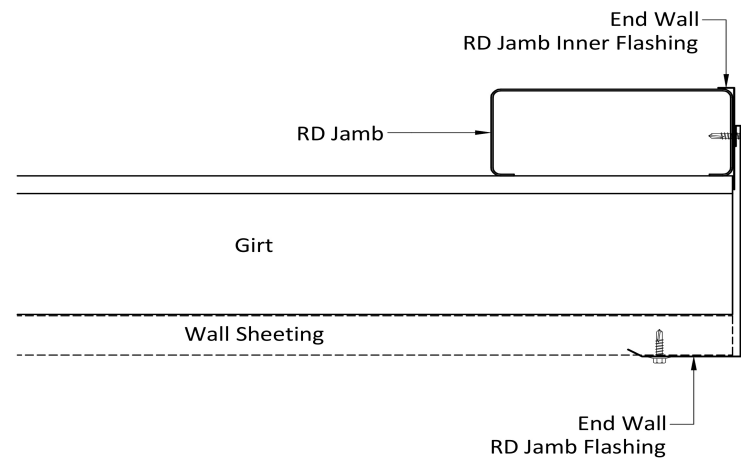
65 x 65 - Corner Flashing
XF28



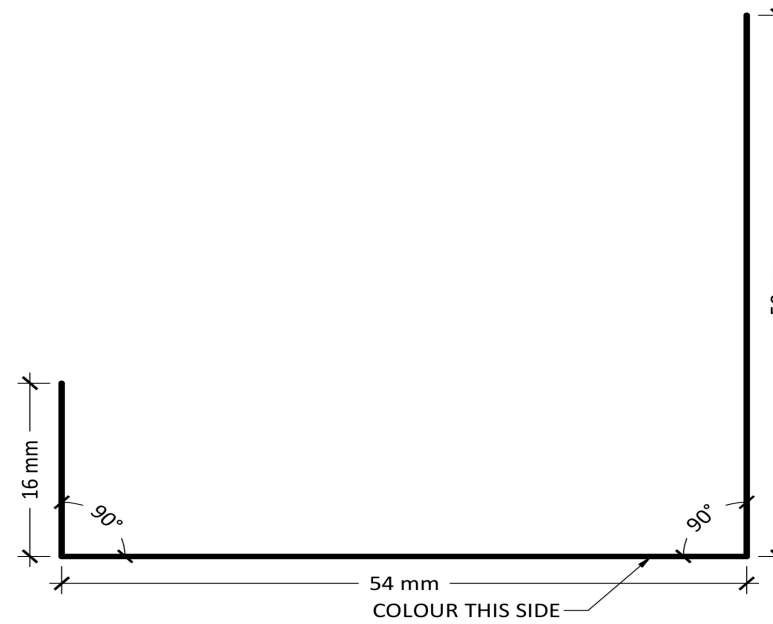
Wall RD Jamb Flashing XF28/18



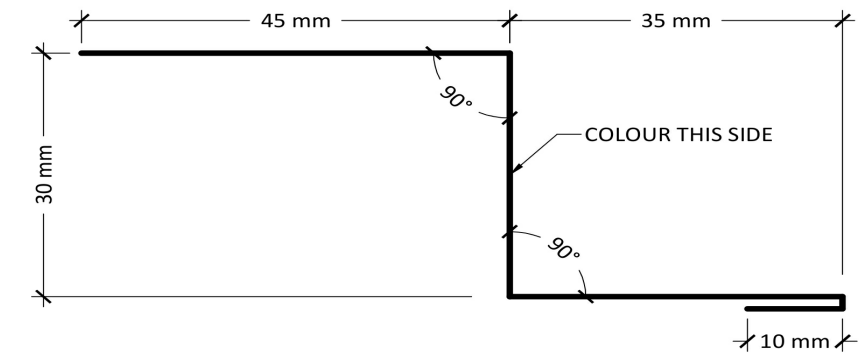
End Wall RD Jamb Flashing
XF49



End Wall RD Jamb Flashing XF49/18



C100 RD Head Cover Flashing
XF55



Vermin Flashing
XF69

Purchaser Name: Nik Reed

Site Address: 10 Robert Jones St Mudgee NSW 2850 Australia

Drawing # TMJD214033 - 9

Print Date: 06/12/21

Flashing Fixing Details

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