

GENERAL NOTES

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

DESIGN CRITERIA

These building plans have been prepared to comply with the standards nominated in the engineer's letter and itemised details in the attached Design Information Sheet. All plans are not to Scale.

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 Earlier plans provided may have become outdated due to engineering changes and should not be used.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

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

ADDITIONAL DOCUMENTATION TO BE SUPPLIED BY PURCHASER/OWNER

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

BUILDING CONSTRUCTION REQUIREMENTS

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

SLAB AND/OR PIER 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.\* Column supports for mezzanine bearer internal support columns are not shown and should be of the same size and spacing as the end wall mullion piers.
- \* 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.
- \* 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.
- \* 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.
- \* A site specific geotechnical investigation has not been performed, uno.
- \* Designs are in accordance with AS 3600:2009
- \* All concrete to be in accordance with AS 3600:2009. Minimum 25 Mpa, with 80mm slump.
- \* Concrete should be cured for 7 days before commencing construction of the building.

Concrete Slab

For Class A, S or M Sites

- \* Slab thickness to be a minimum of 100mm with SL 72 mesh and 40mm top cover.
- \* Concrete piers under Roller Door Jambs and Mezzanine Mid posts to be a minimum size as below:  
C20019 - 450mm dia x 500mm deep, centered to the C Section  
C20015 - 450mm dia x 400mm deep, centered to the C Section  
Where heavy traffic is to go through the roller door, it is recommended that the slab edge should be thickened to 200mm deep by 300mm wide for the length between the mullions. Place an additional section of SL 72 mesh, 50mm from the base in all thickenings.

For Class H1 or H2 Sites

- \* Slab thickness to be a minimum of 125mm with SL 82 mesh and 40mm top cover.
- \* Edge beam 400mm deep x 300mm wide with Y12 3 bar Trench Mesh to the perimeter of the building.
- \* Thickening beams 400mm deep by 300mm wide with Y12 3 bar Trench Mesh at a max spacing of 6.2m.
- \* Concrete piers under Roller Door Jambs and Mezzanine Mid posts to be a minimum size as below:  
C20019 - 450mm dia x 650mm deep, centered to the C Section  
C20015 - 450mm dia x 500mm deep, centered to the C Section

Concrete Piers Only

For Class A, S or M Sites

- \* Concrete piers under Roller Door Jambs and Mezzanine Mid posts to be a minimum size as below:  
C20019 - 450mm dia x 1000mm deep, centered to the C Section  
C20015 - 450mm dia x 800mm deep, centered to the C Section

For Class H1 or H2 Sites

- \* Concrete piers under Roller Door Jambs and Mezzanine Mid posts to be a minimum size as below:  
C20019 - 450mm dia x 1300mm deep, centered to the C Section  
C20015 - 450mm dia x 1000mm deep, centered to the C Section

BRACING NOTES

- \* Refer to Connection Details.
- \* All Cross Bracing (roof) is achieved with 1.2mm Strap G450

- \* Cross bracing is to be fixed taught and secured with 2 x 14.20 x 22 frame screws at each end.
- \* Fly bracing to be fixed to the purlins/girts at all mid portal rafters, columns and end wall mullions. The spacing between fly braces is determined by column/rafter sizes as follows:

C150 - maximum 1800mm spacing  
C200, C250 - maximum 2200mm spacing  
C300 - maximum 2800mm spacing  
C350 - maximum 3400mm 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 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 members (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.

MEZZANINE FLOOR

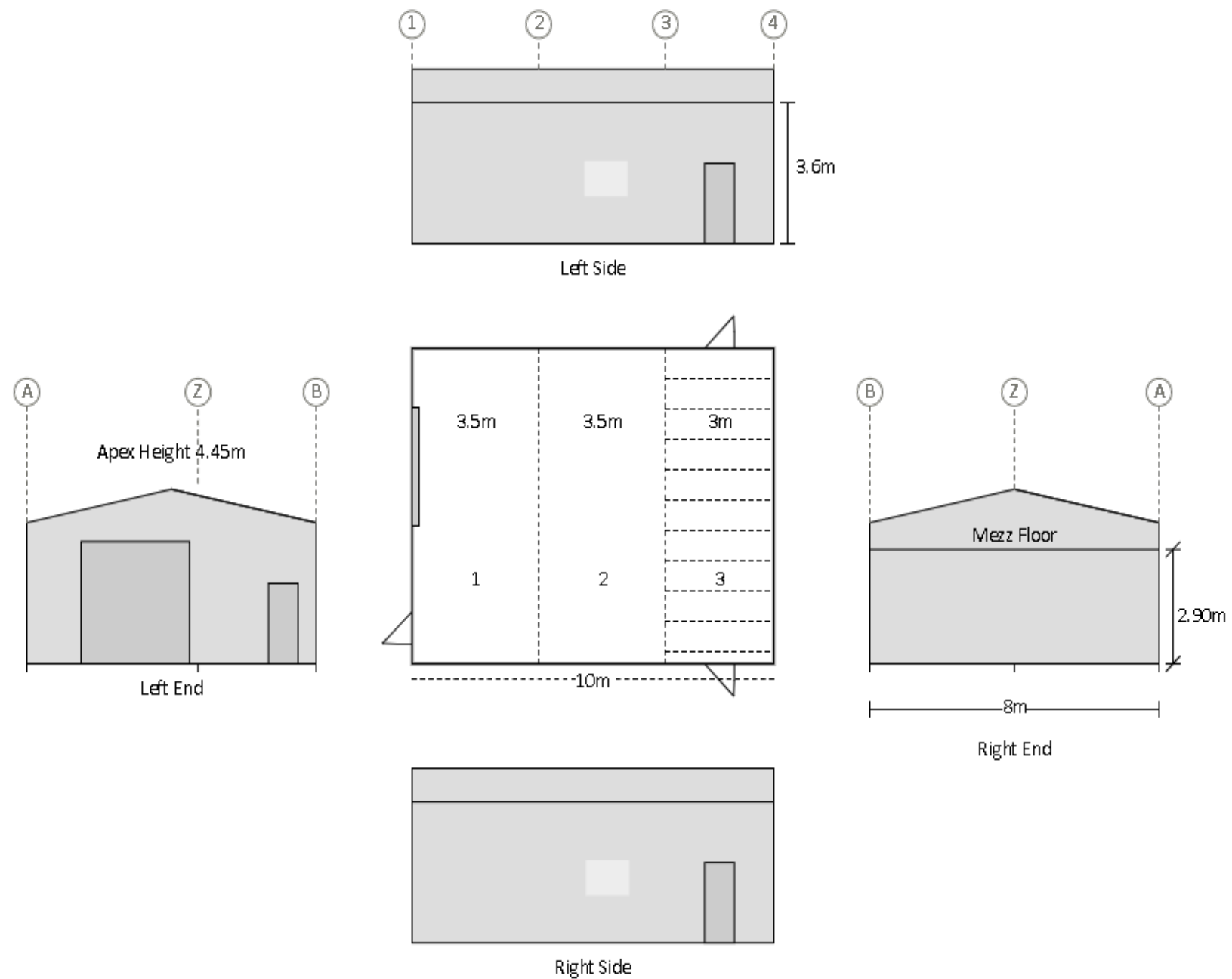
- \*Mezzanine floor designed for 1.5kPa live loading.
- \*No point loads allowed for.

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 # WSS180521 - 2	Print Date: 02/03/18			

Signature:  R. Nancarrow Date: 02/03/18



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**Layout**  
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 Practising Professional Structural & Civil Engineer

Signature: *R. Nancarrow* R. Nancarrow Date: 02/03/18

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	8	10	12	3.6	A - B	1 - 4

Portal Frame Elements					
Grid / Portal Number		1	2	3	4
Columns	A	C15012	C15015	C15015	C15012
	B	C15012	C15015	C15015	C15012
Rafters	A - Apex	C15012	C15012	C15012	C15012
	Apex - B	C15012	C15012	C15012	C15012
End Wall Mullions	Z	C15015	-	-	C15015
Apex Braces	Apex	-	C15012 @ 2.4m	C15012 @ 2.4m	-
Knee Braces	A - Apex	-	C15012 @ 1.7m	C15012 @ 1.7m	-
	Apex - B	-	C15012 @ 1.7m	C15012 @ 1.7m	-
Mezz Bearers	A - B	-	-	C20015	C20015
Mezz Bearer Support	A	-	-	C15012	2C15015
	Z	-	-	C20015	C20015
	B	-	-	C15012	2C15015

Bay Section Elements				
Grid / Bay Number		1	2	3
Bay Widths		3.5	3.5	3
Roof Purlins	A - Apex	TH64075	TH64075	TH64075
	Apex - B	TH64075	TH64075	TH64075
Roof Purlin Spacing (End)	A - Apex	0.9	0.9	0.9
	Apex - B	0.9	0.9	0.9
Roof Purlin Spacing (Internal Spans)	A - Apex	1.12	1.12	1.12
	Apex - B	1.12	1.12	1.12
Eave Purlin	A	C10010	C10010	C10010
	B	C10010	C10010	C10010
Side Girts	A	TH64075	TH64075	TH64075
	B	TH64075	TH64075	TH64075
Side Girts Spacing (End)	A	1.123	1.123	1.123
	B	1.123	1.123	1.123
Side Girts Spacing (Internal)	A	1.123	1.123	1.123
	B	1.123	1.123	1.123
Mezz Floor Joists	A - B	-	-	Z15012
PA Door Header	A	-	-	C10010
	B	-	-	C10010
PA Door Jambs	A	-	-	C10012
	B	-	-	C10012

End Bay Section Elements			
Grid / Portal Number		1	4
End Girts	A - Z	TH64075	TH64075
	Z - B	TH64075	TH64075
End Girts Spacing (End)	A - Z	1.123	1.123
	Z - B	1.123	1.123
End Girts Spacing (Internal)	A - Z	1.123	1.123
	Z - B	1.123	1.123
Roller Door Jambs	A - Z	C20019	-
	Z - B	-	-
PA Door Header	Z - B	C10010	-
PA Door Jambs	Z - B	C10012	-

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

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Drawing # WSS180521 - 4	Print Date: 02/03/18			

Signature:  R. Nancarrow Date: 02/03/18

MATERIAL SPECIFICATIONS

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

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

Pier Sizes								
Adhesion (kPa)	Soil Description	Diameter (mm)	Depth - when NO Slab			Depth - with Slab		
			BP1 (mm)	BP2 (mm)	BP3 (mm)	BP1 (mm)	BP2 (mm)	BP3 (mm)
0	Sandy Soil	300	700	1100	600	450	450	450
		450	600	800	600	450	450	450
		600	600	600	600	450	450	450
25	Soft to Firm Clay	300	600	700	600	450	450	450
		450	600	700	600	450	450	450
		600	600	600	600	450	450	450
50	Stiff to Very Stiff Clay	300	600	700	600	450	450	450
		450	600	700	600	450	450	450
		600	600	600	600	450	450	450

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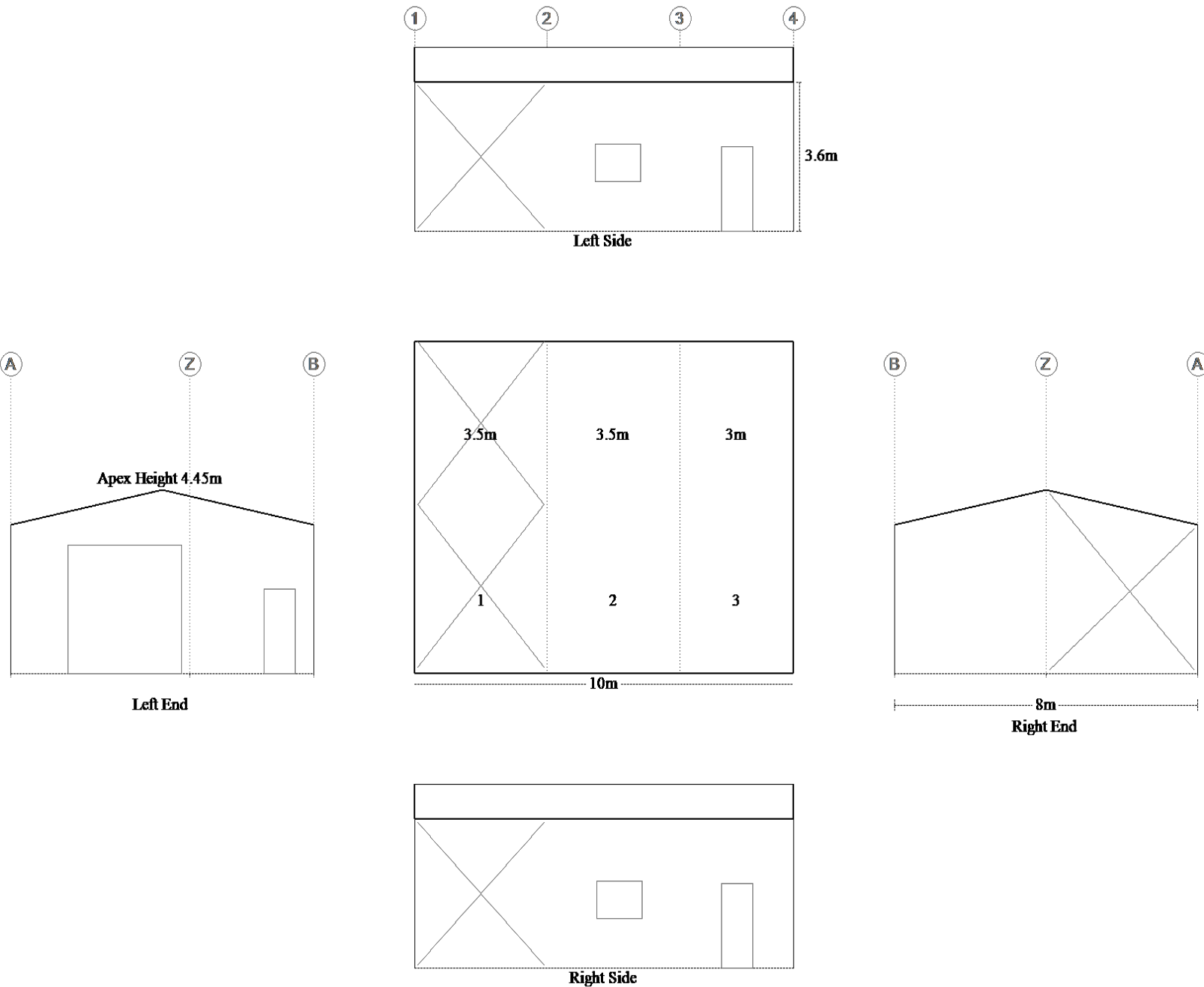
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Cross Bracing is achieved with 1.2mm Strap. Refer to Connection Details.



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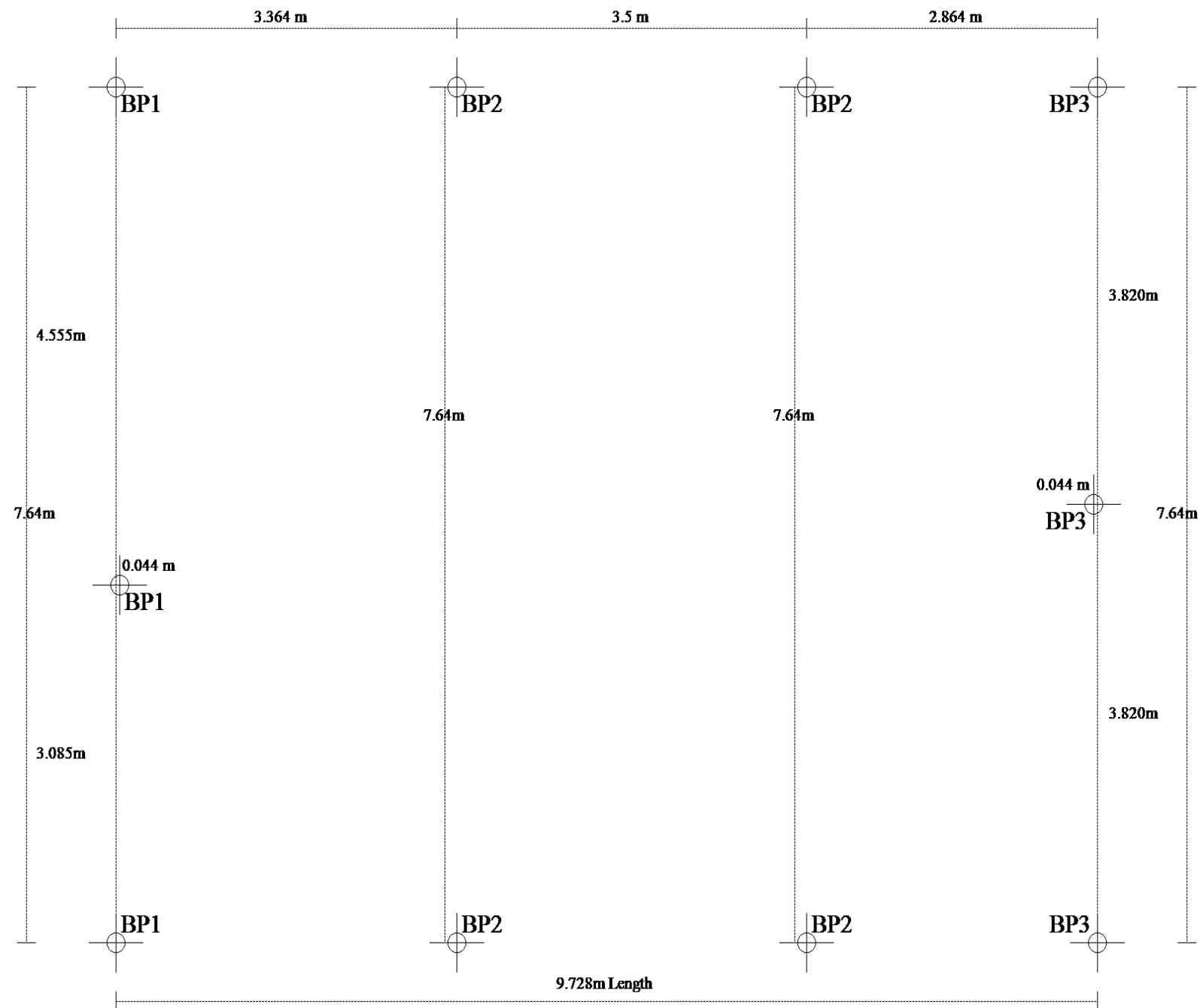
**Bracing**  
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**Refer to Material Specifications Plan for BP dimensions.**



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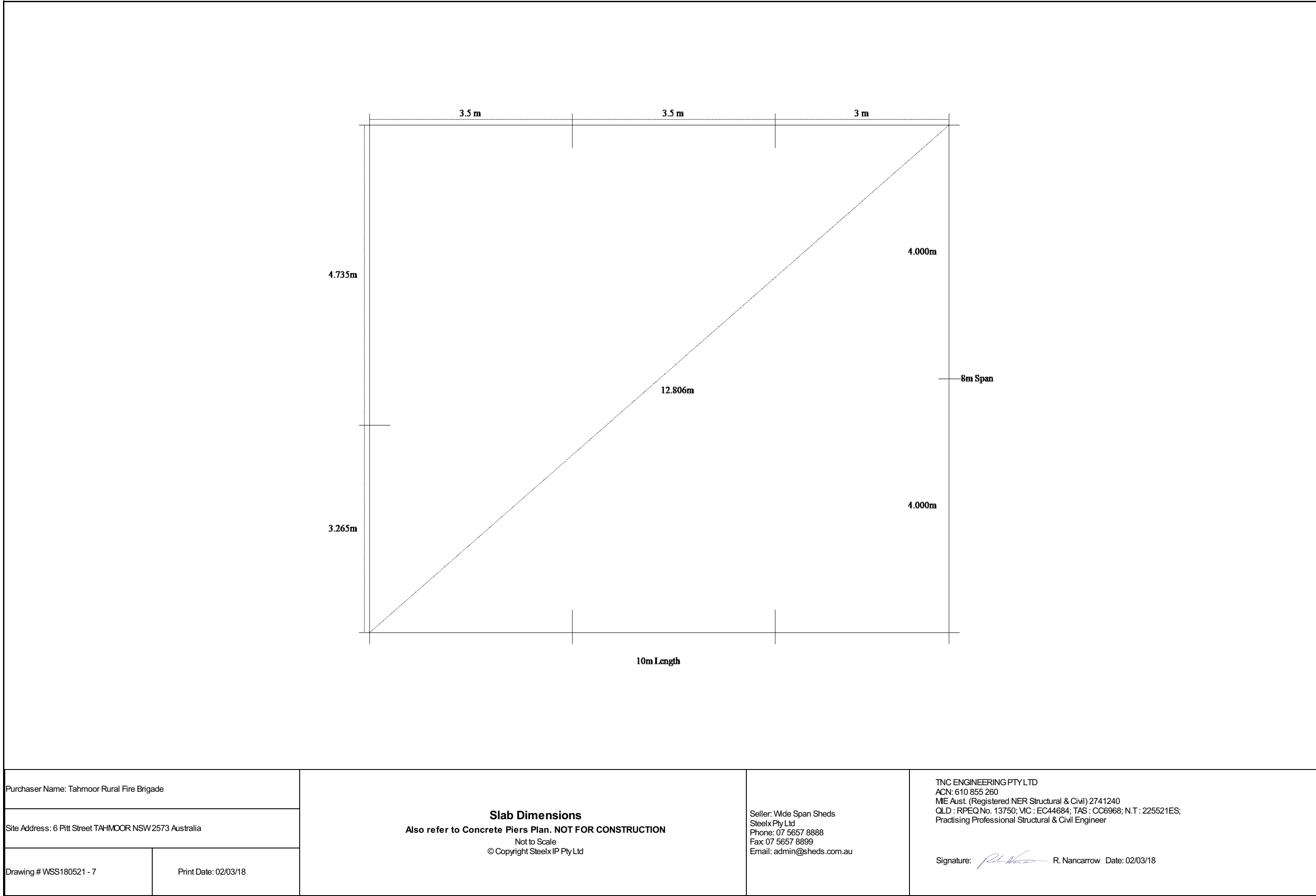
**Concrete Piers**  
PIER MEASUREMENT ONLY. NOT FOR CONSTRUCTION

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Drawing # WSS180521 - 7

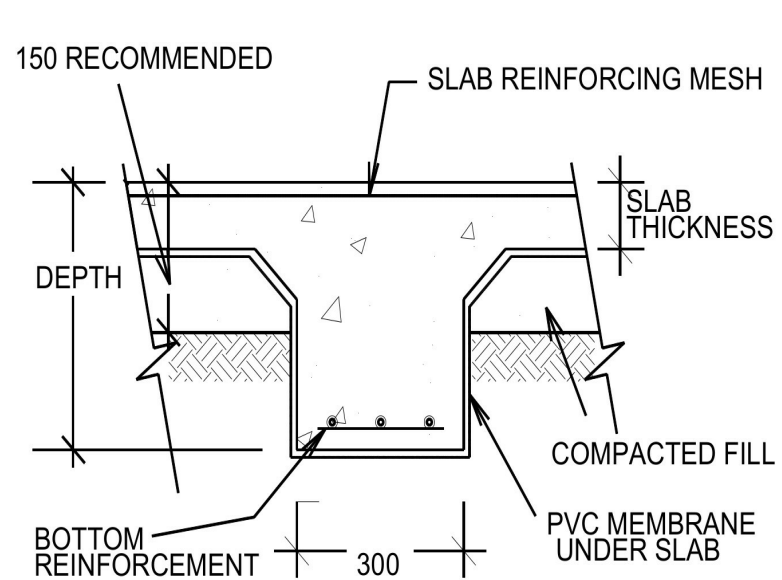
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**Slab Dimensions**  
**Also refer to Concrete Piers Plan. NOT FOR CONSTRUCTION**  
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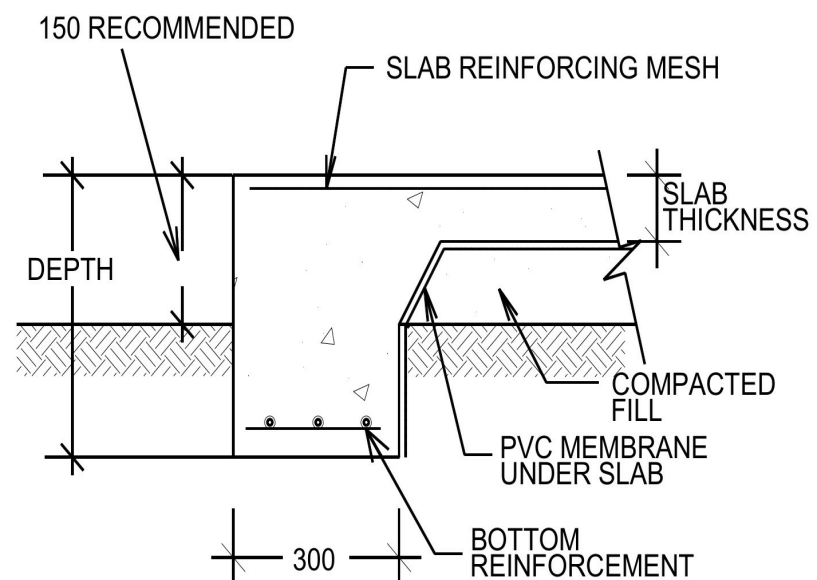
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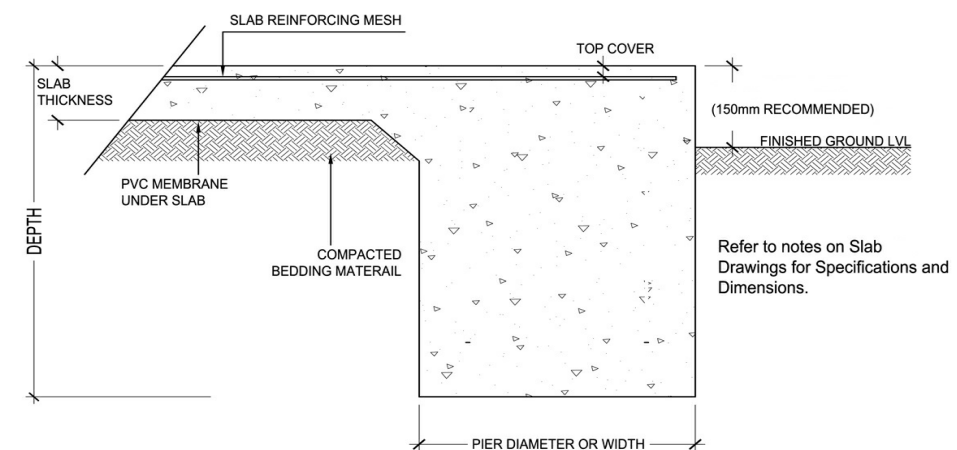
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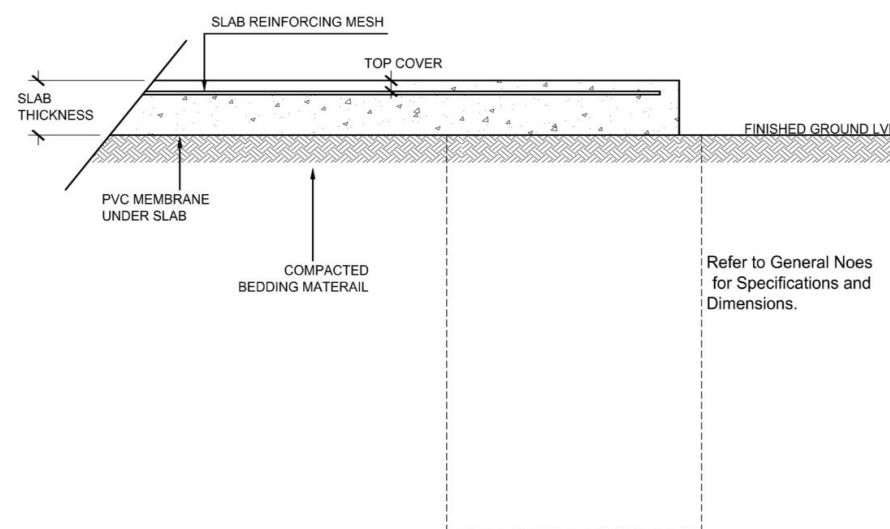
**INTERNAL BEAM**  
(H1 & H2 SOIL TYPE ONLY)



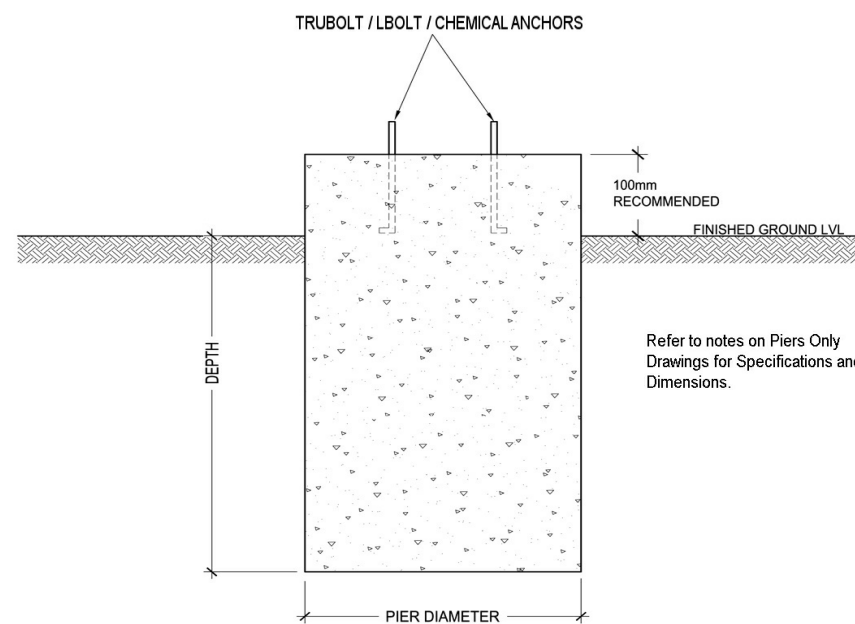
**PERIMETER BEAM**  
(H1 & H2 SOIL TYPE ONLY)



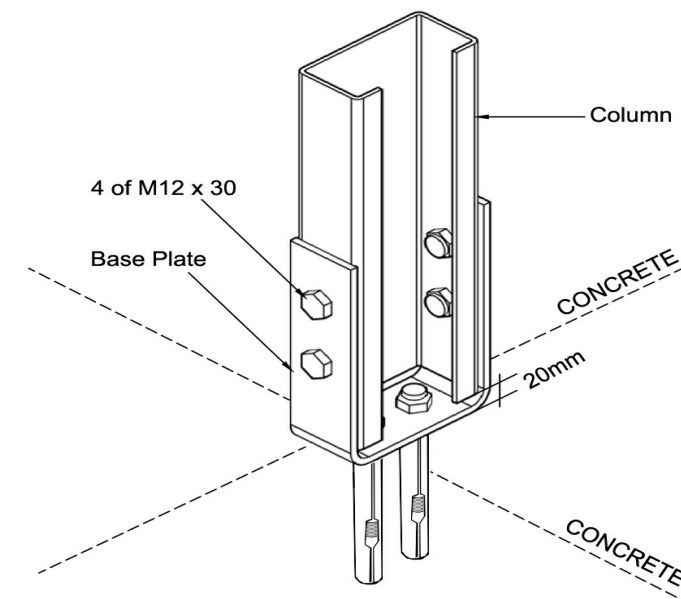
**SLAB AND PIER DETAIL**



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



**BORED PIER**



**FIXING BOLTS - 4 of M12 x 30**  
**2 of TRUBOLT M12 x 80**  
**C150 COLUMN FIXING**

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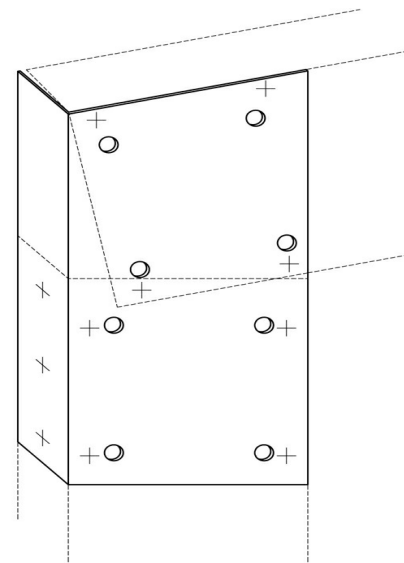
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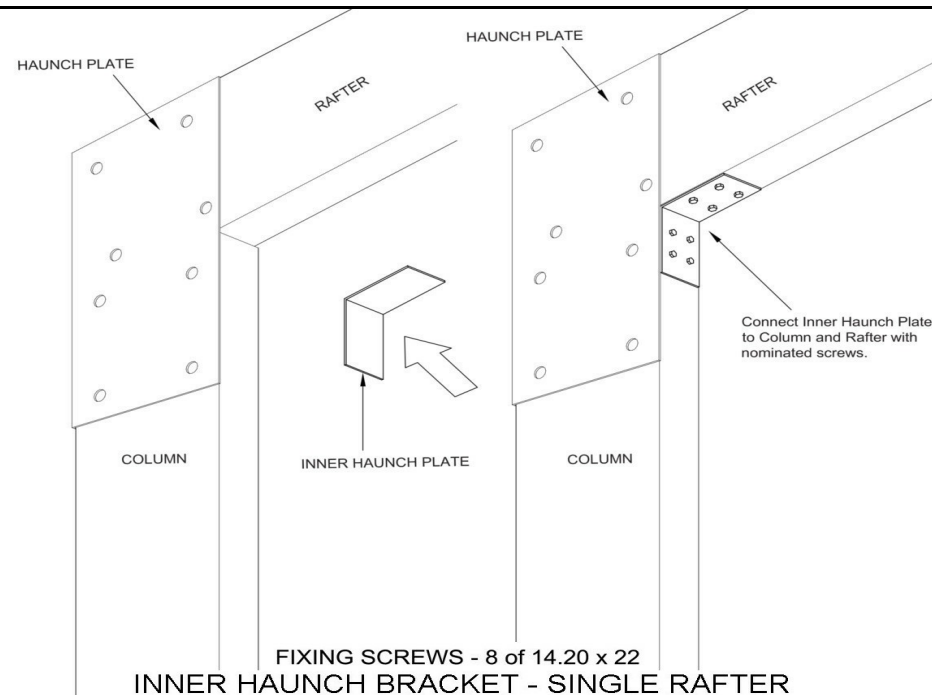
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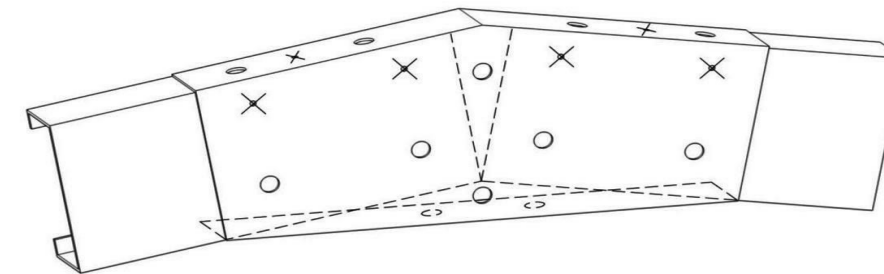


- FIXING BOLTS - 8 of M12 x 30
- × FIXING SCREWS - 11 of 14.20 x 22

**HAUNCH BRACKET - C150 (ENCLOSED END WALL)**

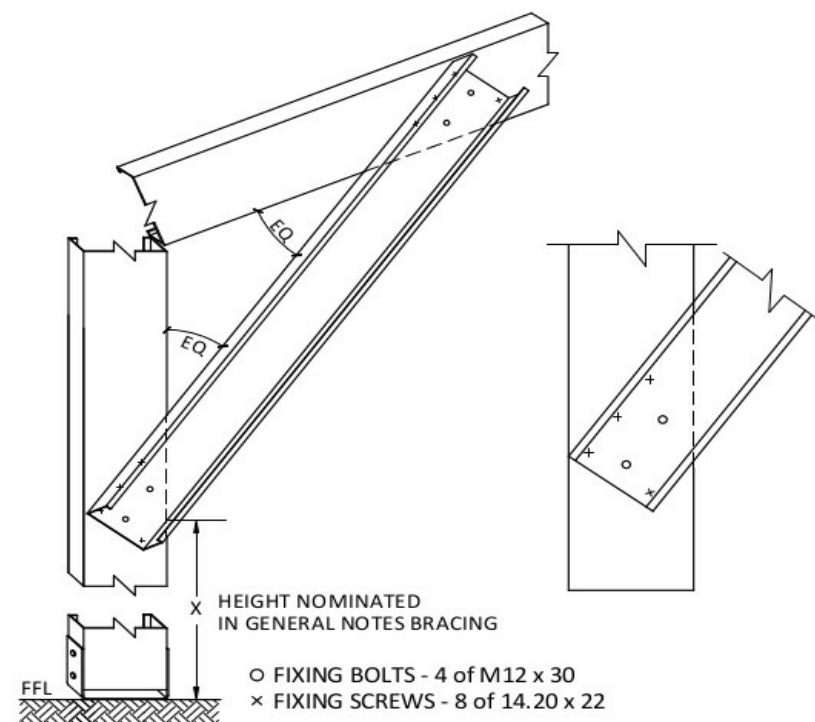


- FIXING SCREWS - 8 of 14.20 x 22
- INNER HAUNCH BRACKET - SINGLE RAFTER**
- (NOT REQUIRED WITH KNEE HAUNCH BRACKET)



- FIXING BOLTS - 8 of M12 x 30
- × FIXING SCREWS - 6 of 14.20 x 22

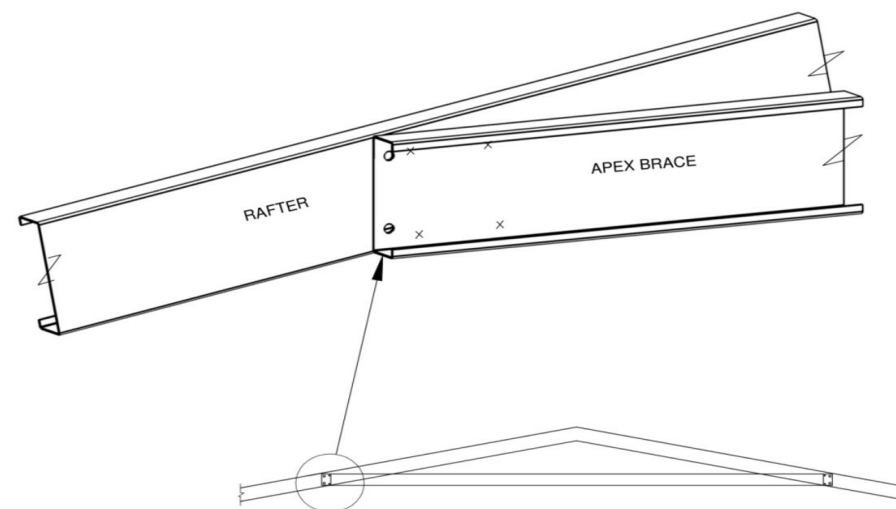
**APEX BRACKET C150, 12 deg**



HEIGHT NOMINATED  
IN GENERAL NOTES BRACING

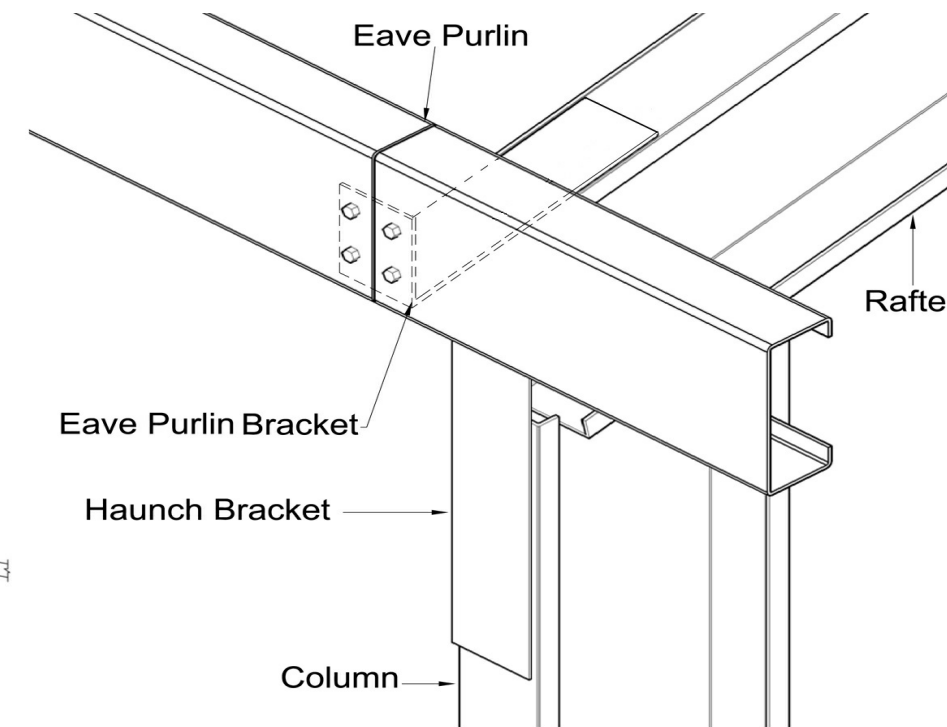
- FIXING BOLTS - 4 of M12 x 30
- × FIXING SCREWS - 8 of 14.20 x 22

**KNEE BRACE FOR C150 SINGLE COLUMN - RAFTER**



- FIXING BOLTS - 2 of M16 x 40
- × FIXING SCREWS - 4 of 14.20 x 22

**APEX BRACE FOR SINGLE RAFTER**



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

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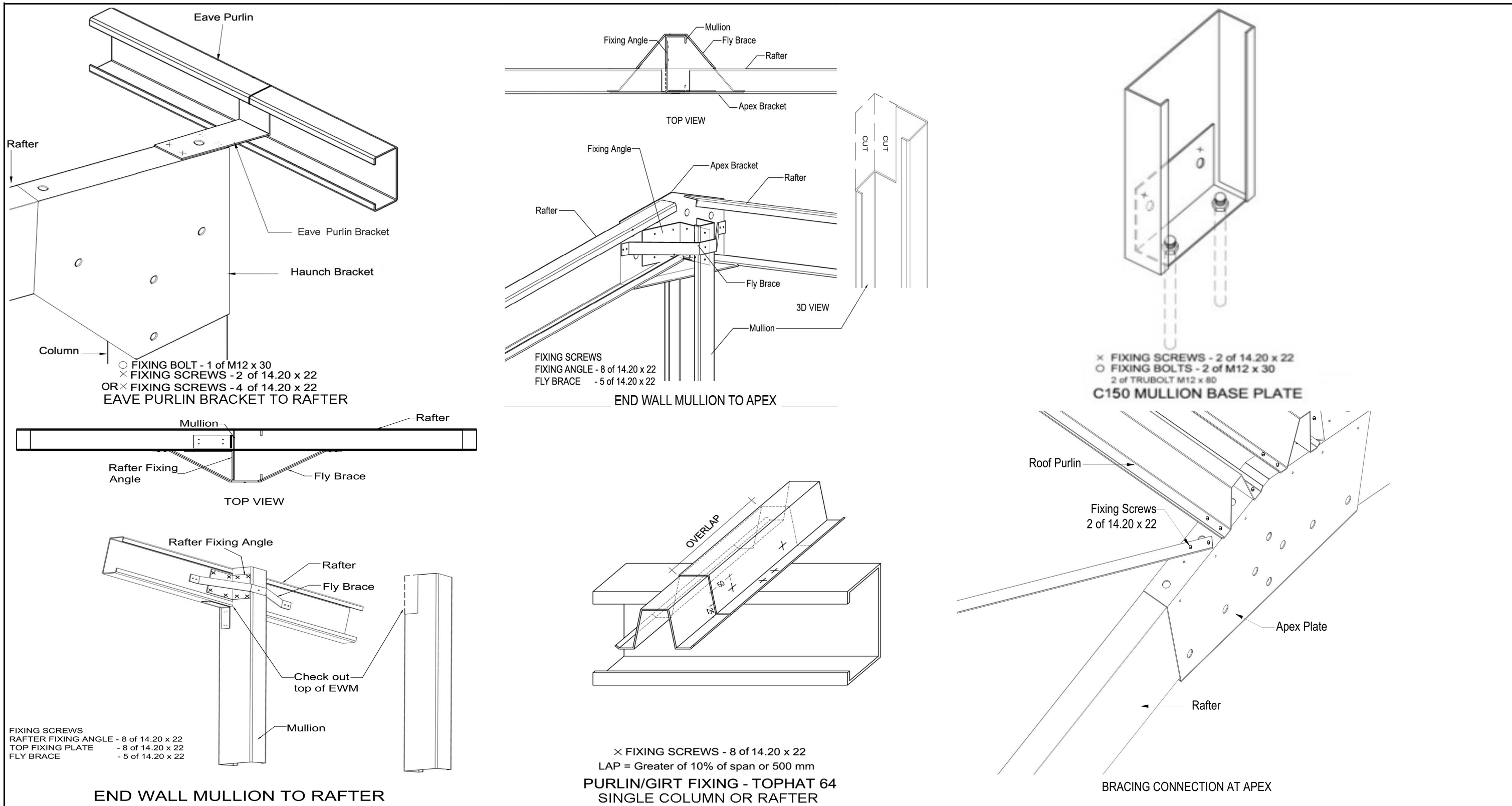
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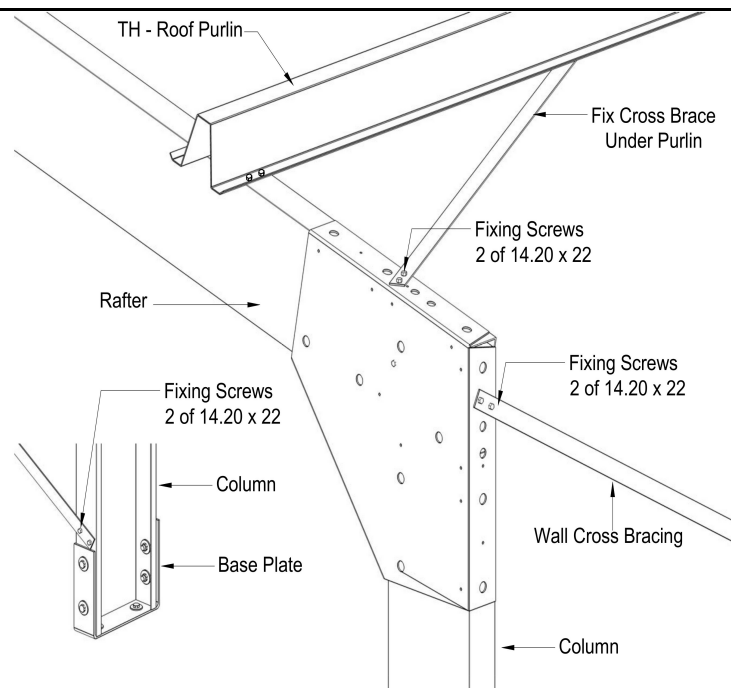
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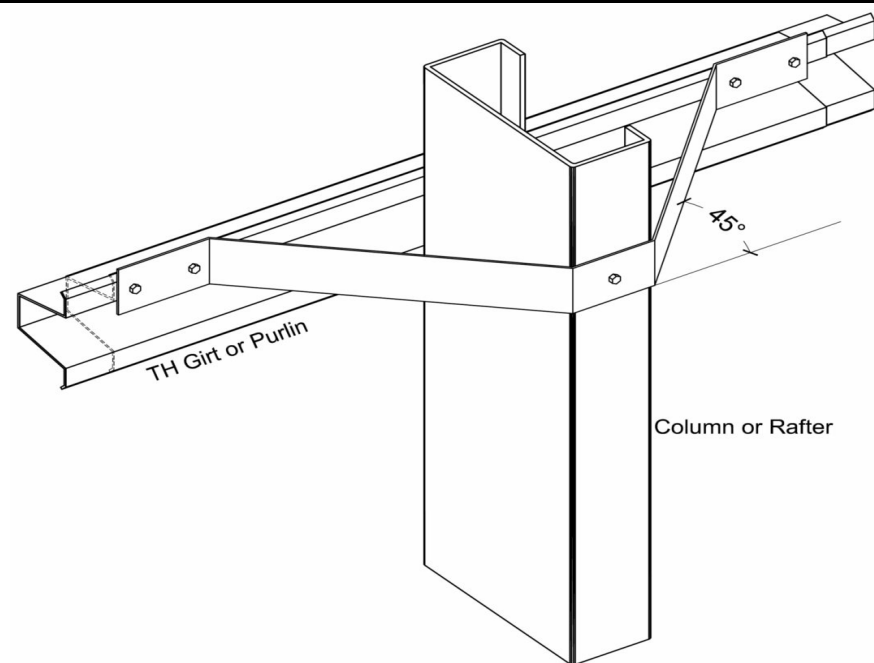


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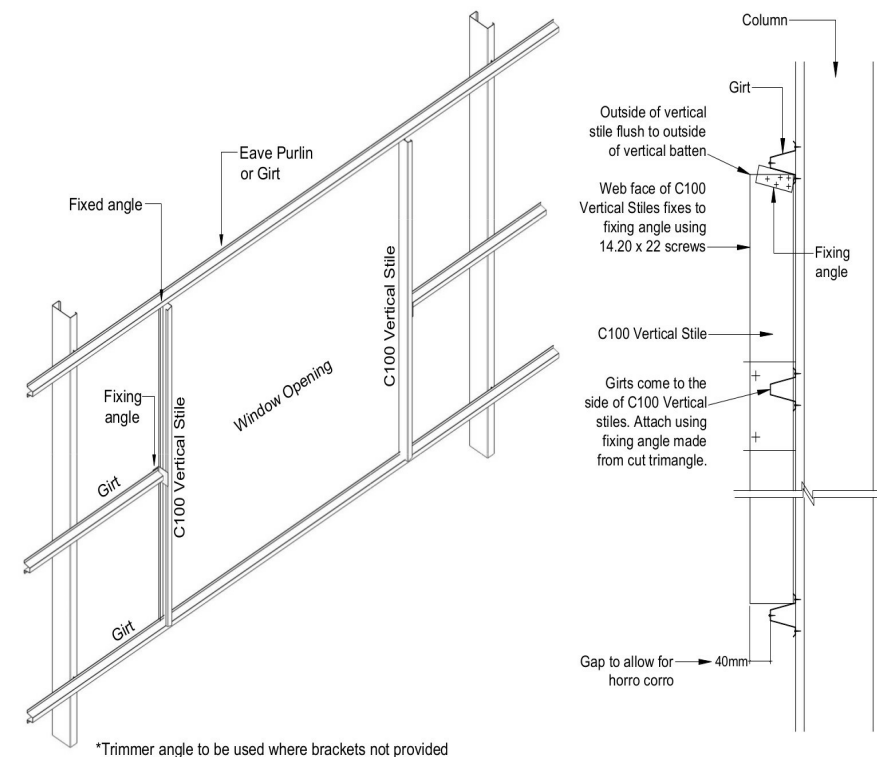
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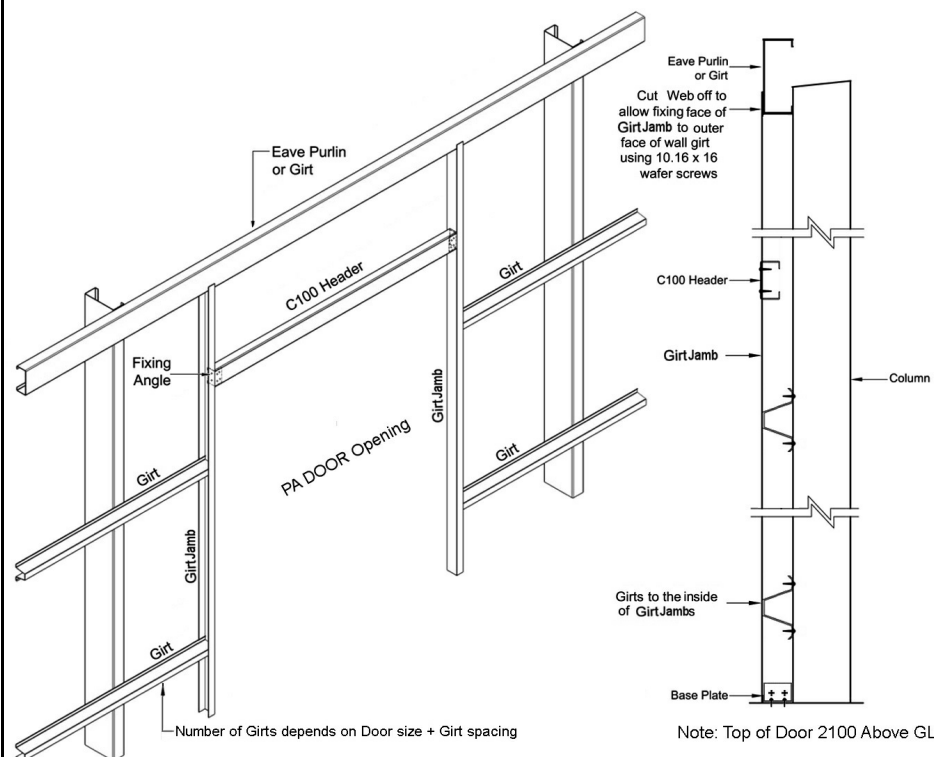
## BRACING CONNECTION



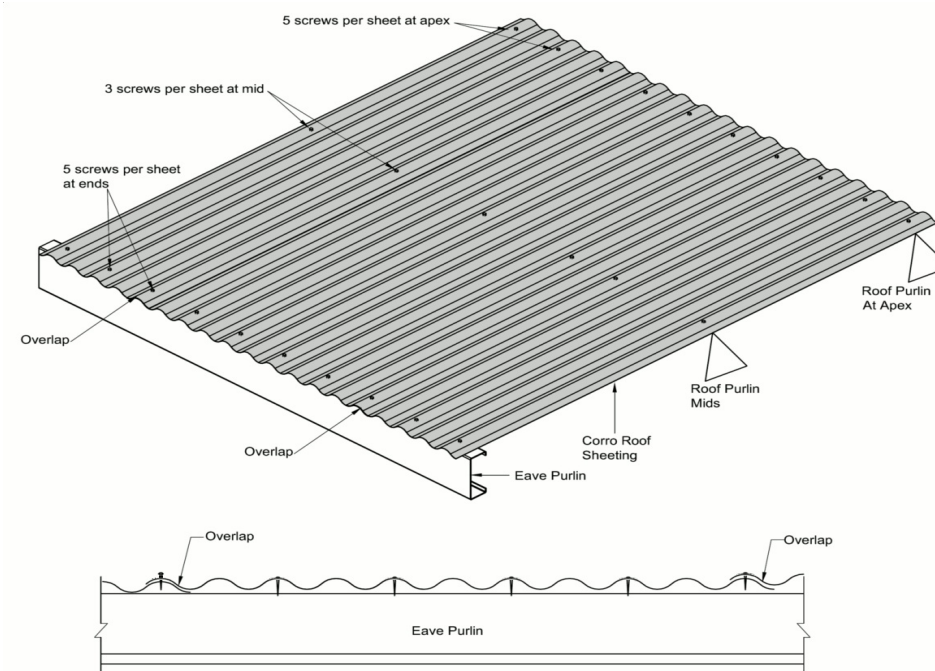
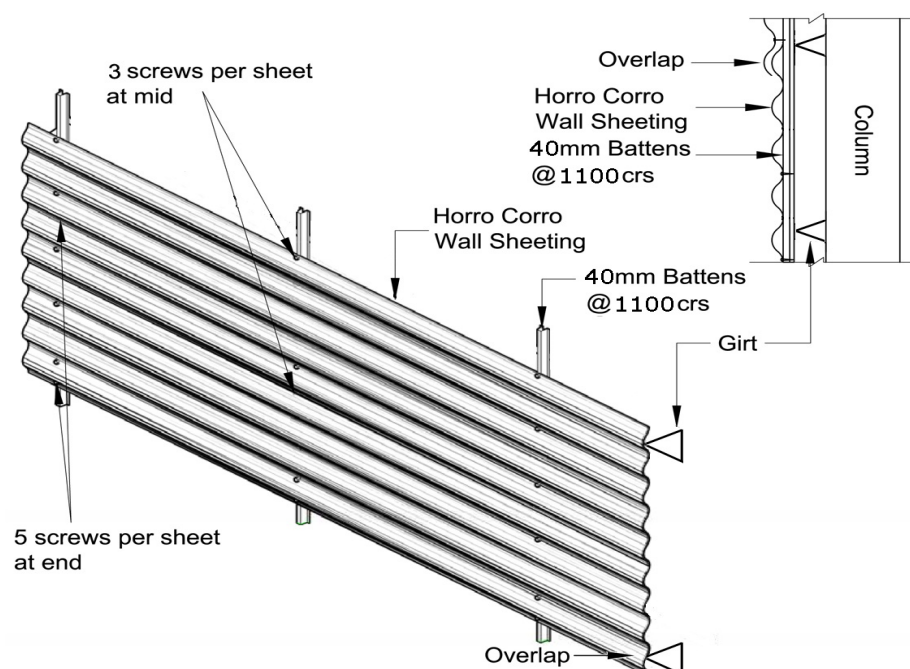
FIXING SCREWS - 5 of 14.20 x 22  
FLY BRACING



\*Trimmer angle to be used where brackets not provided



PA DOOR (PRE HUNG) CONNECTION DETAILS



## CORRO ROOF SHEET FIXING

Roofing Screws - 12.14 x 35 Hex Seal High Grip

Purchaser Name: Tahmoor Rural Fire Brigade

Site Address: 6 Pitt Street TAHMOOR NSW 2573 Australia

Drawing # WSS180521 - 8

Print Date: 02/03/18

## Connection Details NOT FOR CONSTRUCTION

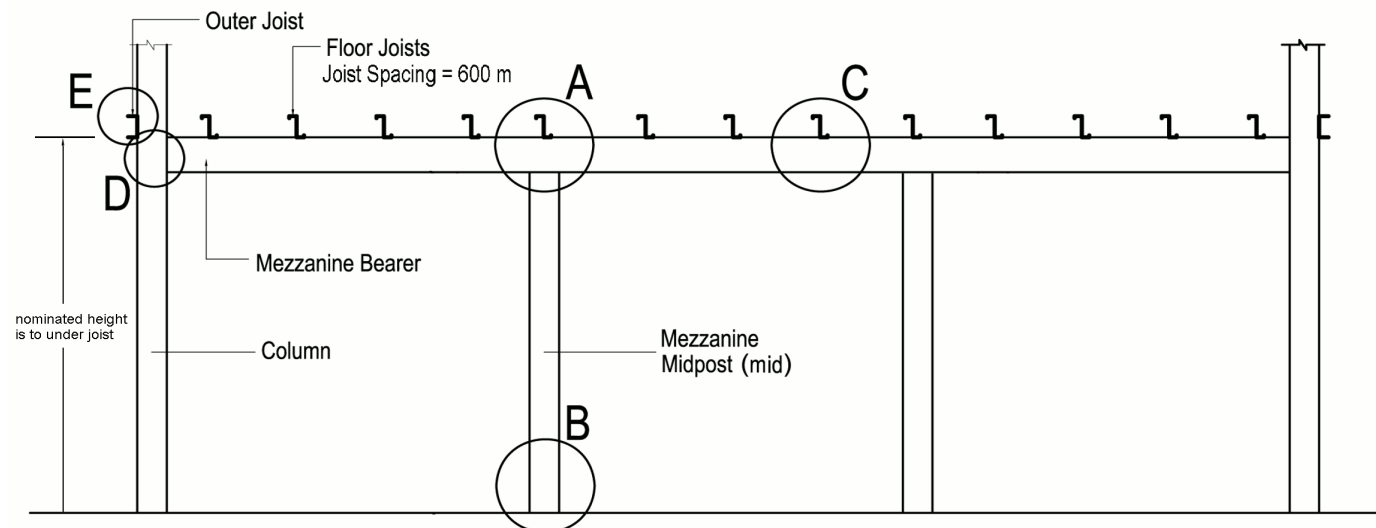
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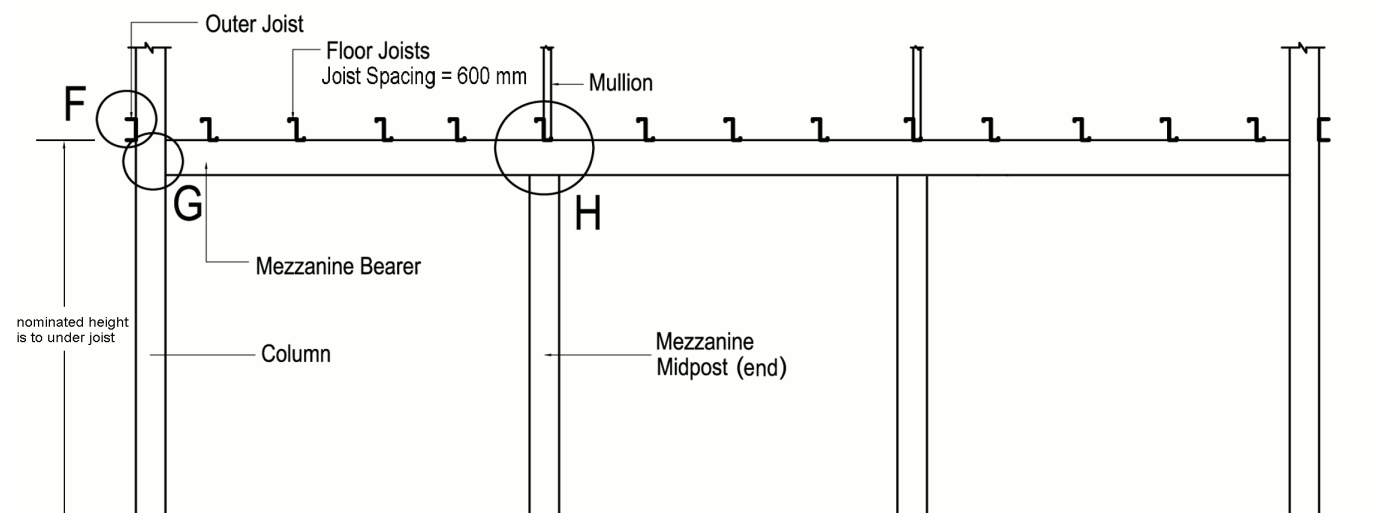
TNC ENGINEERING PTY LTD  
ACN: 610 855 260  
ME Aust. (Registered NER Structural & Civil) 2741240  
QLD : RPEQ No. 13750; VIC : EC44684; TAS : CC6968; N.T : 225521ES;  
Practising Professional Structural & Civil Engineer

Signature:  R. Nancarrow Date: 02/03/18





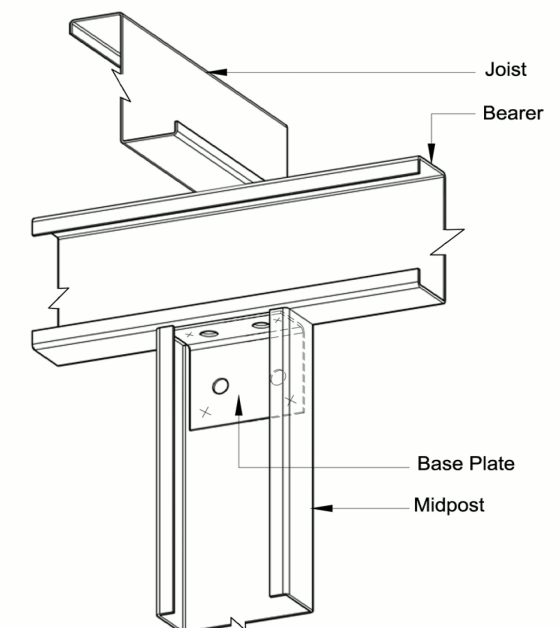
MEZZANIE FLOOR - ELEVATION (MID)



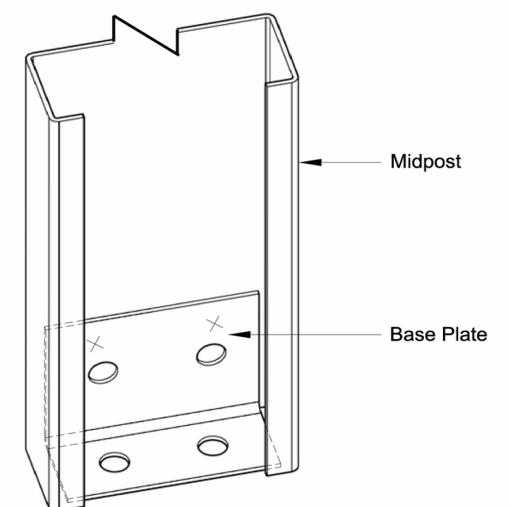
MEZZANIE FLOOR - ELEVATION (END)

Note: Number of Mezzanine Midposts equal to the number of EWMs

## MEZZANINE FLOOR CONNECTION DETAILS (1 of 2)



- FIXING BOLTS - 4 of M16 x 30
  - × FIXING SCREWS - 4 of 14.20 x 22
- MIDPOST TO BEARER  
DETAIL AT A**



- FIXING BOLTS 2 of M16 x 30
  - FIXING TO CONCRETE - 2 of M16 DYNABOLTS
  - × FIXING SCREWS - 2 of 14.20 x 22
- MIDPOST TO SLAB / FOOTING  
DETAIL AT B**

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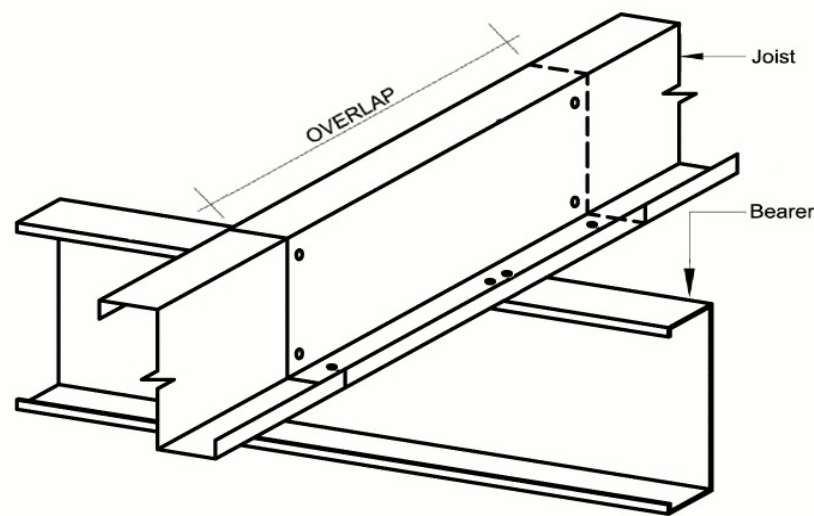
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**Connection Details**  
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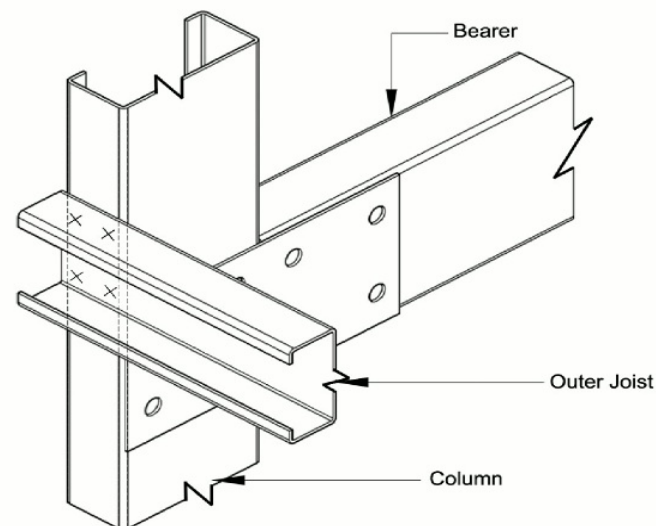
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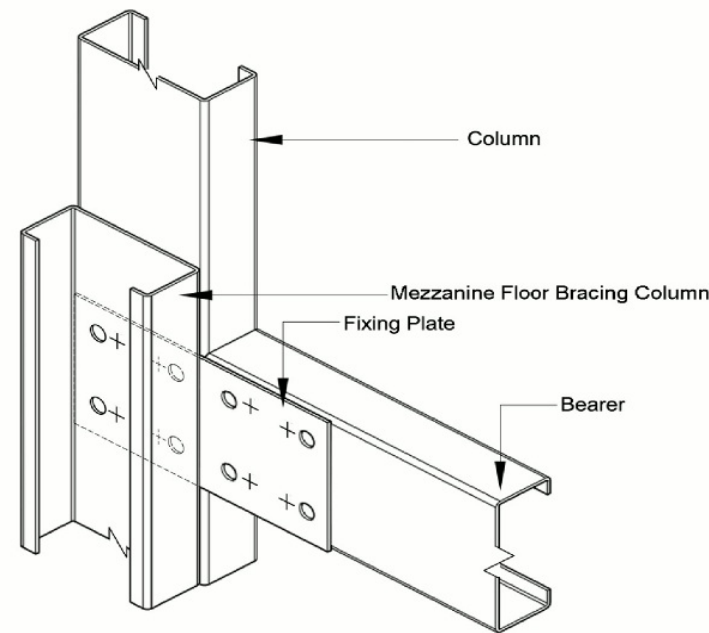
Signature:  R. Nancarrow Date: 02/03/18



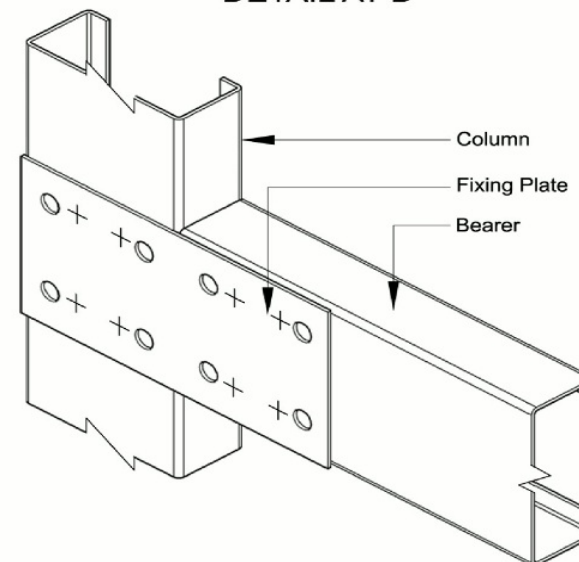
× FIXING SCREWS - 8 of 14.20 x 22  
MEZZ JOIST FIXING  
DETAIL AT C



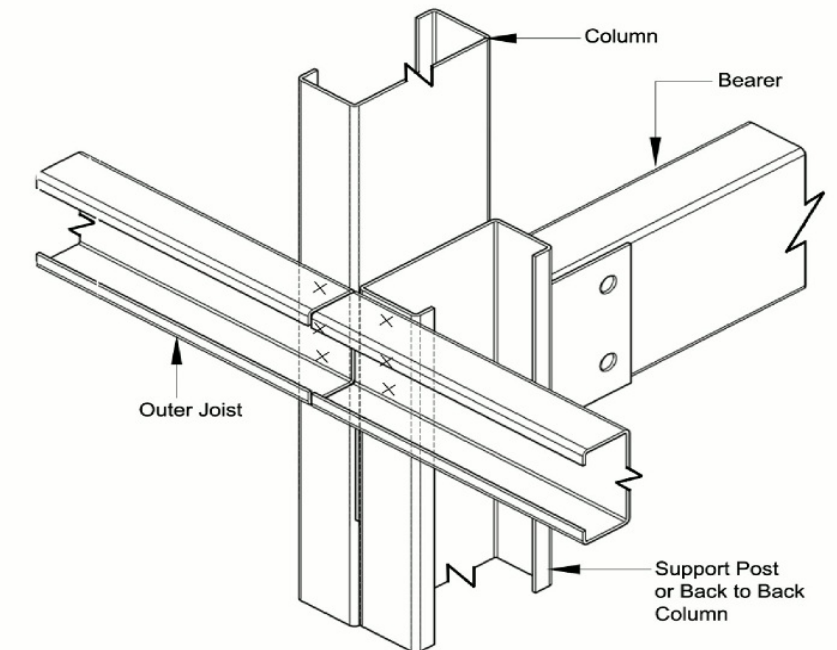
× FIXING SCREWS - 4 of 14.20 x 22  
OUTER JOIST TO COLUMN (END)  
DETAIL AT F



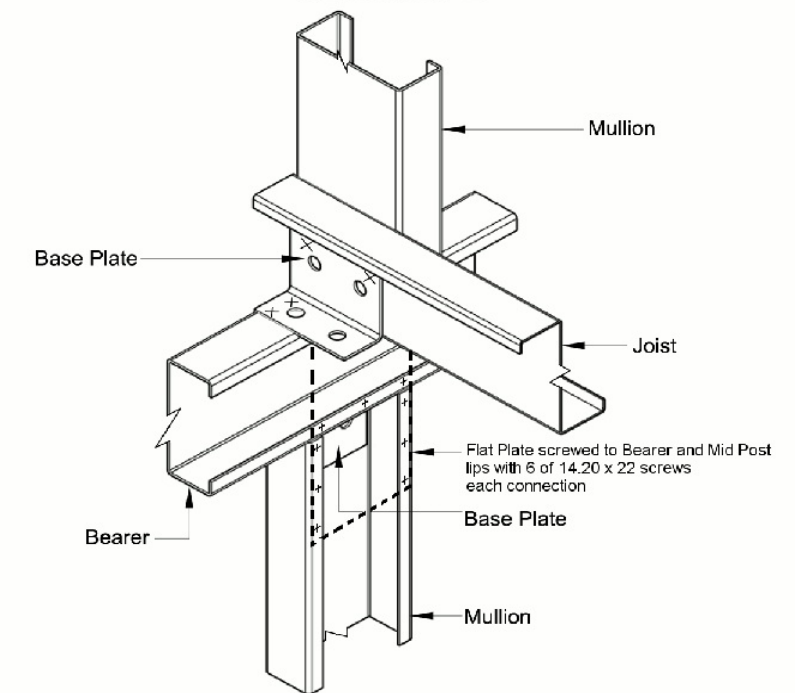
○ FIXING BOLTS - 8 of M 16 x 40 (8.8)  
× FIXING SCREWS - 8 of 12.24 x 32  
COLUMN TO BEARER (MID)  
DETAIL AT D



○ FIXING BOLTS - 8 of M 16 x 40 (8.8)  
× FIXING SCREWS - 8 of 12.24 x 32  
COLUMN TO BEARER (END)  
DETAIL AT G



× FIXING SCREWS - 6 of 14.20 x 22  
OUTER JOIST TO COLUMN (MID)  
DETAIL AT E



○ FIXING BOLTS - 3 of M12 x 30  
× FIXING SCREWS - 4 of 14.20 x 22 HEX  
END WALL MULLION TO BEARER

## MEZZANINE FLOOR CONNECTION DETAILS (2 of 2)

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Site Address: 6 Pitt Street TAHMOOR NSW 2573 Australia

Drawing # WSS180521 - 8

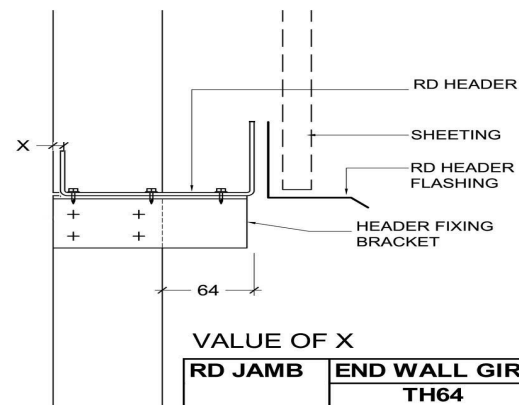
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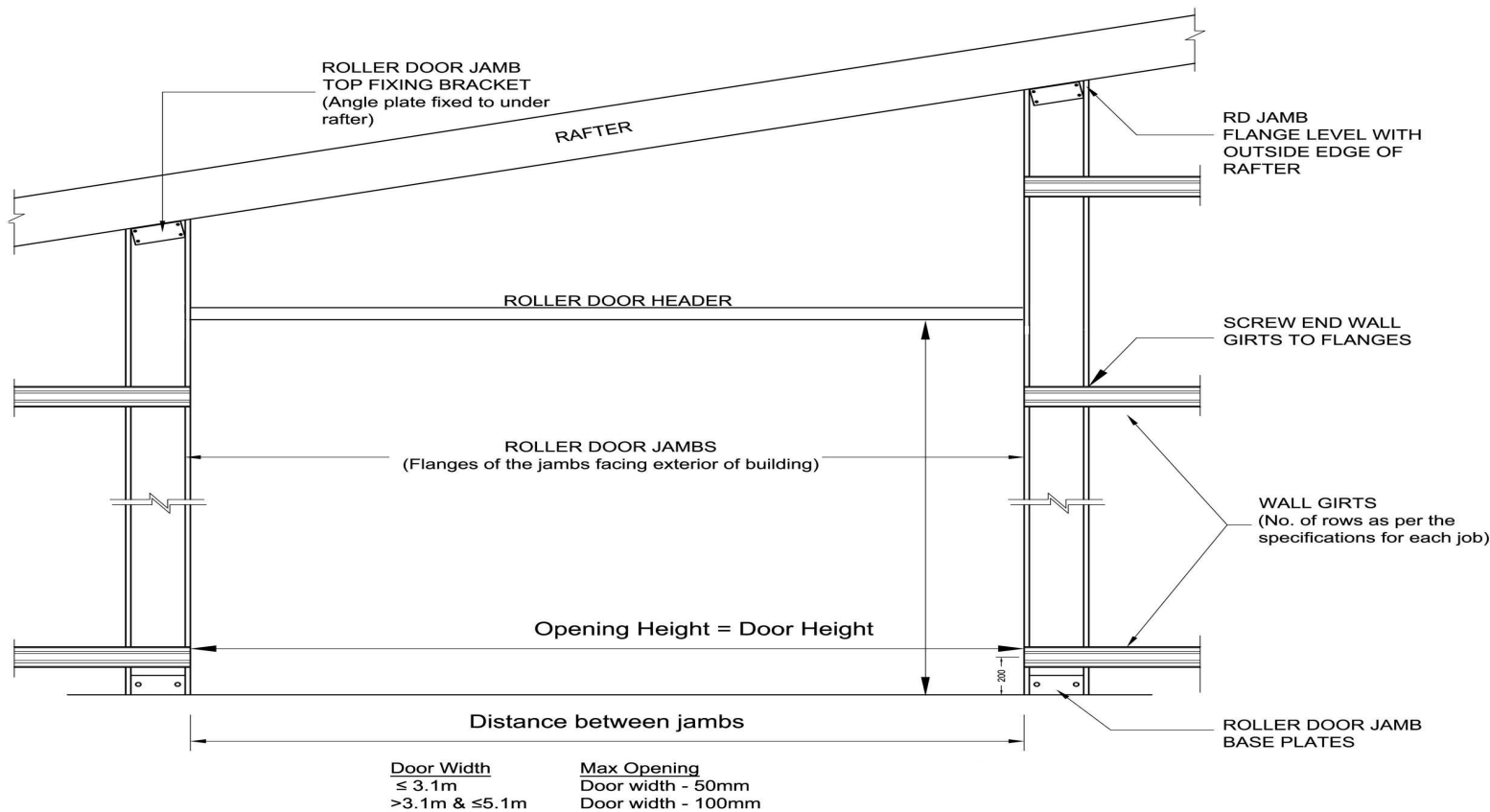
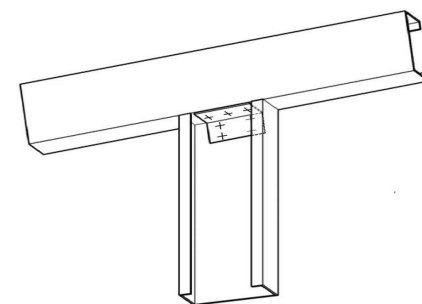
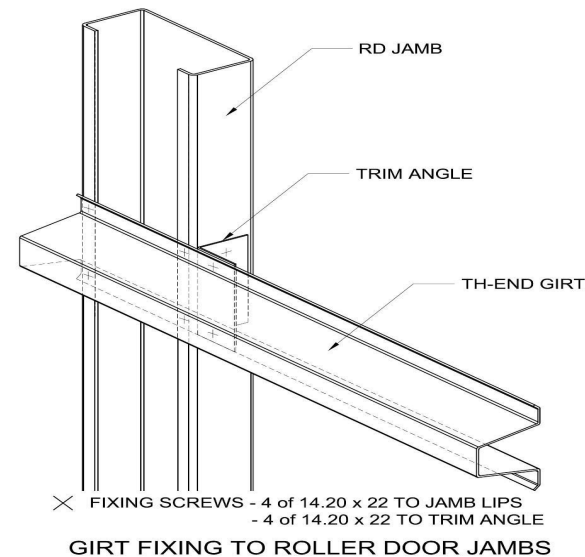
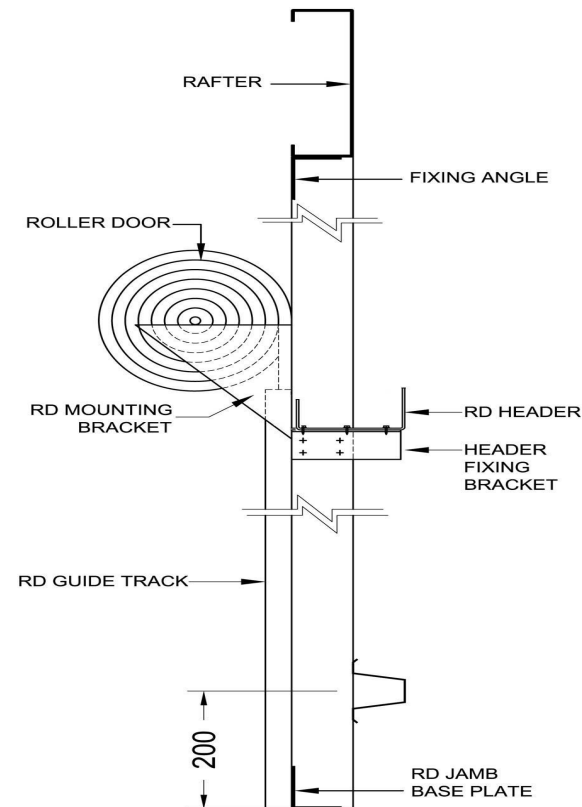
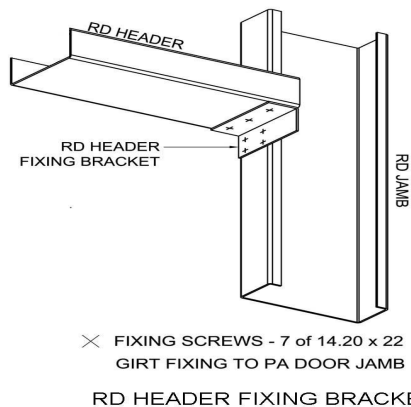
Signature:  R. Nancarrow Date: 02/03/18



VALUE OF X

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

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



## ROLLER DOOR DETAILS

(Door under 4.0m)  
 Gable end wall ONLY

Purchaser Name: Tahmoor Rural Fire Brigade

Site Address: 6 Pitt Street TAHMOOR NSW 2573 Australia

Drawing # WSS180521 - 8

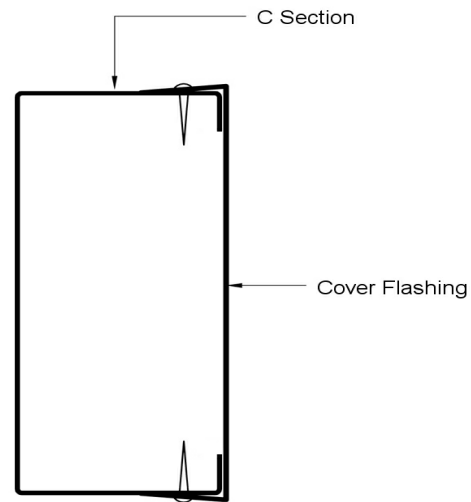
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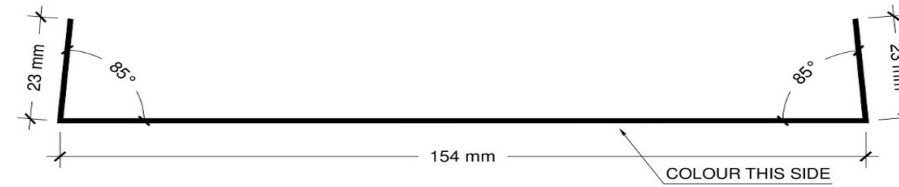
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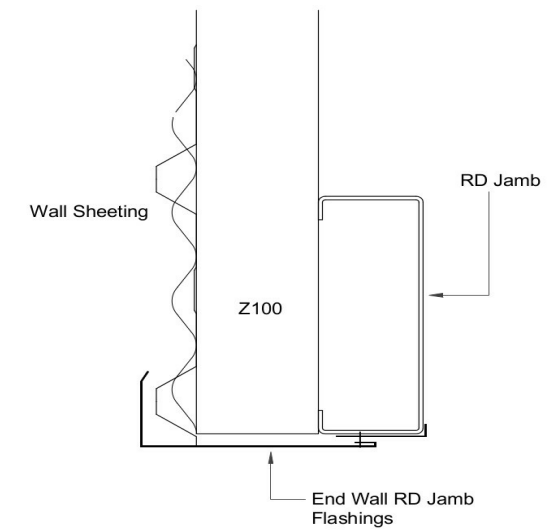
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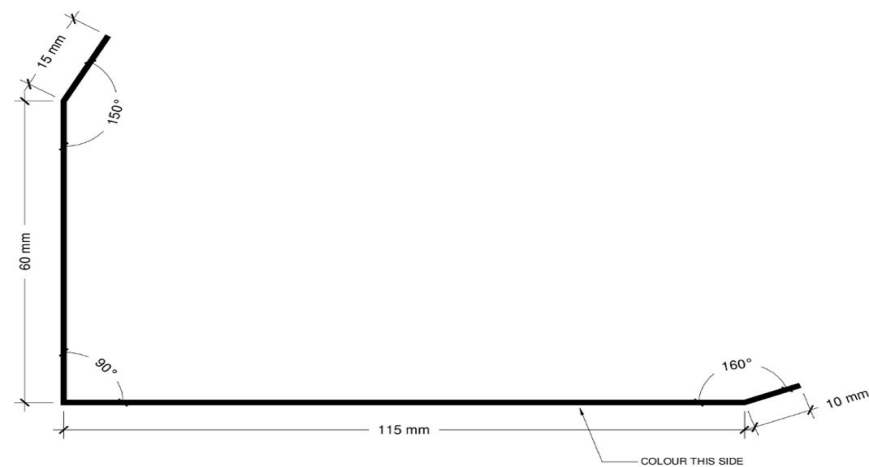
Cover Flashing XF 50



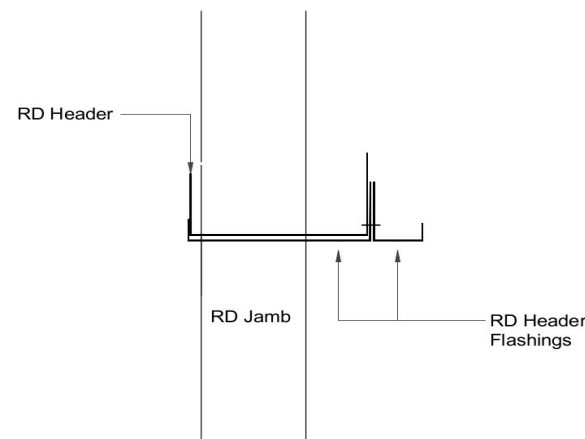
XF50



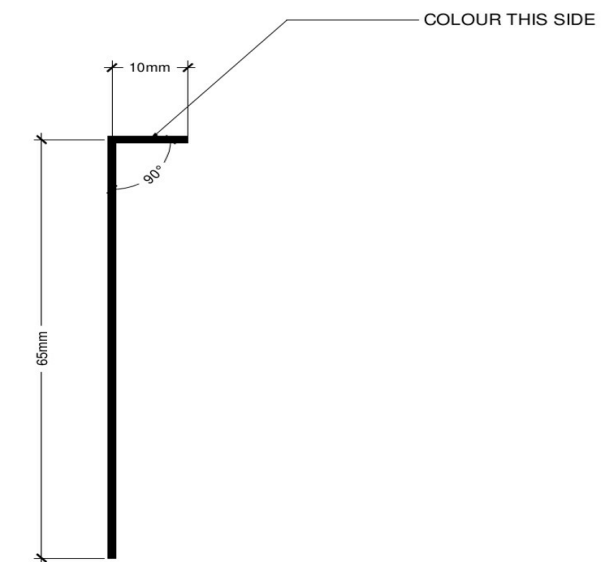
End Wall RD Jamb Flashing XF27/18



XF27



End RD Flashing XF58/24



XF18

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Print Date: 02/03/18

### Flashing Fixing Details

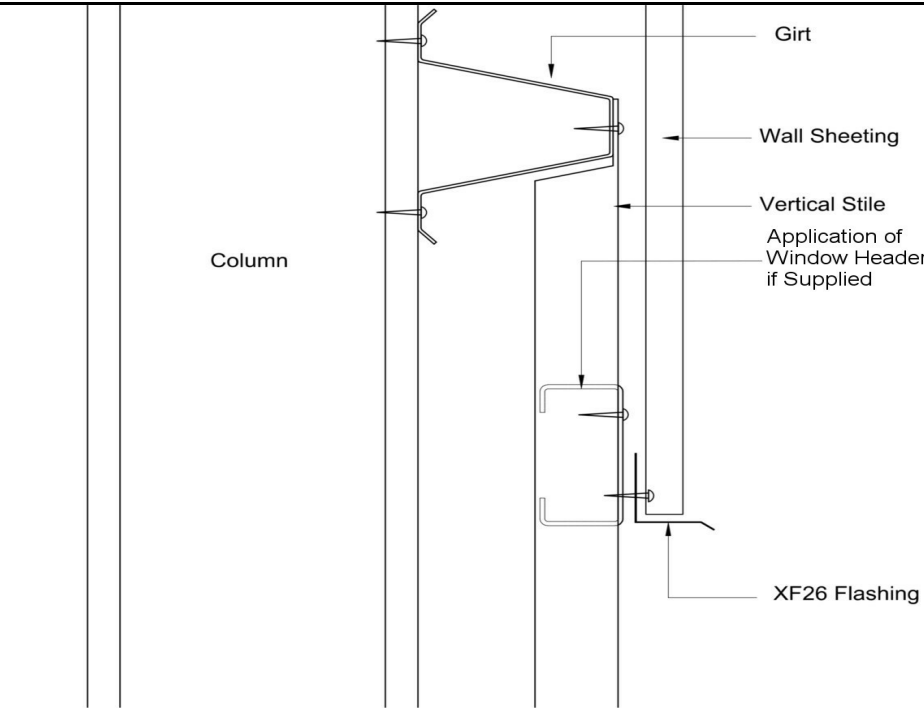
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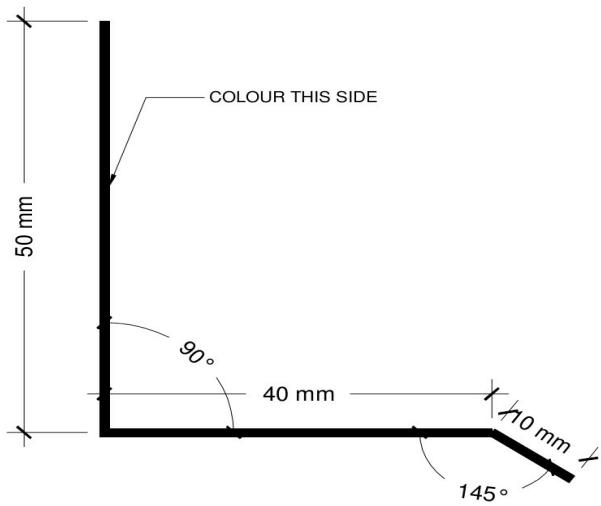
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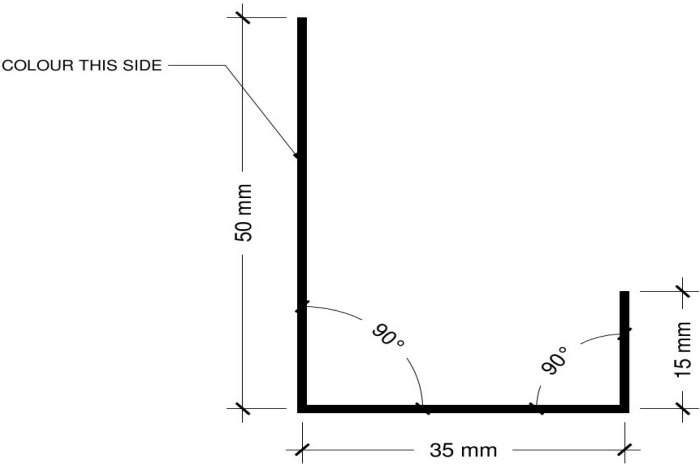
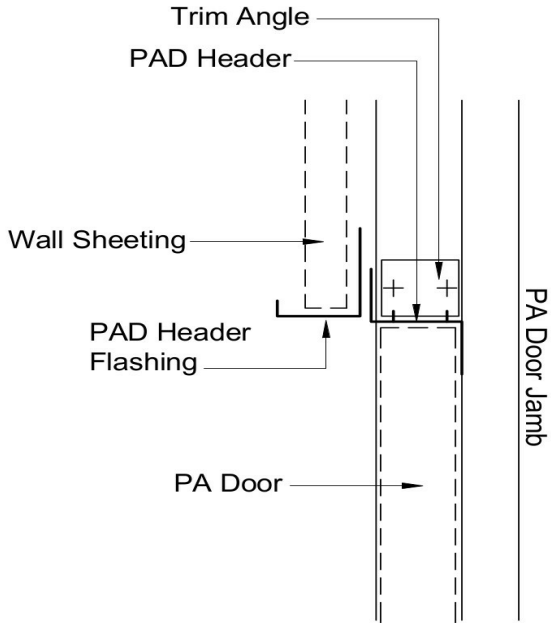
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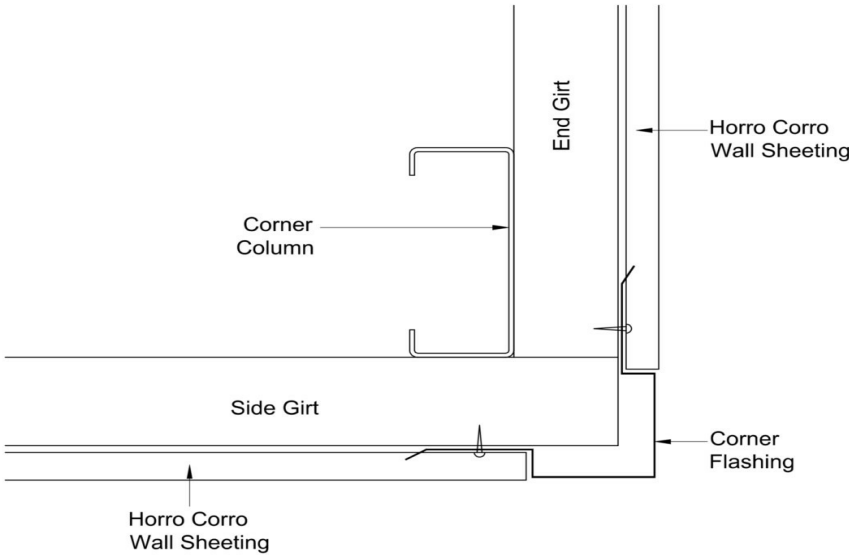
Window Header Flashing XF26 - Connection



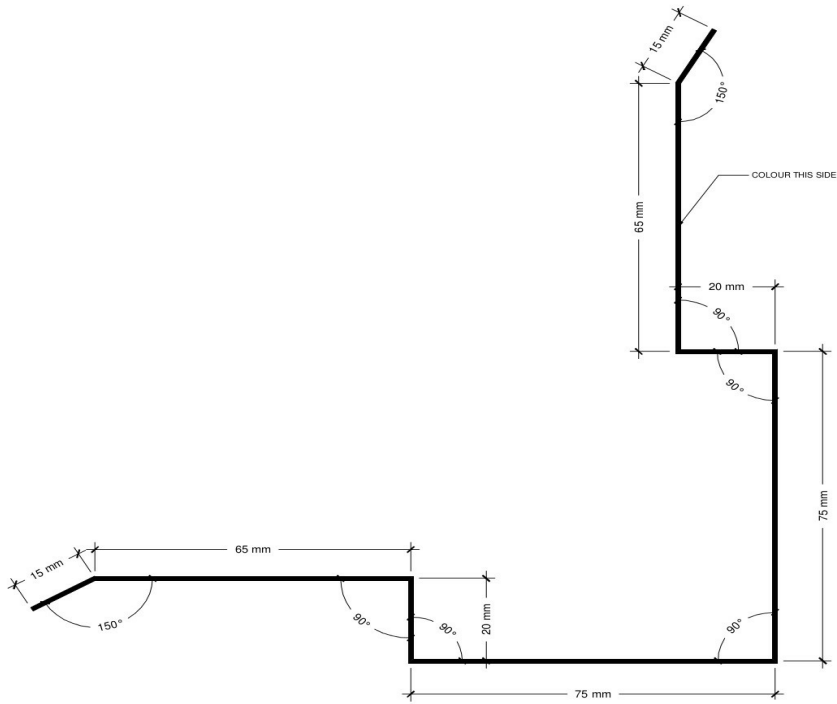
XF26



XF24



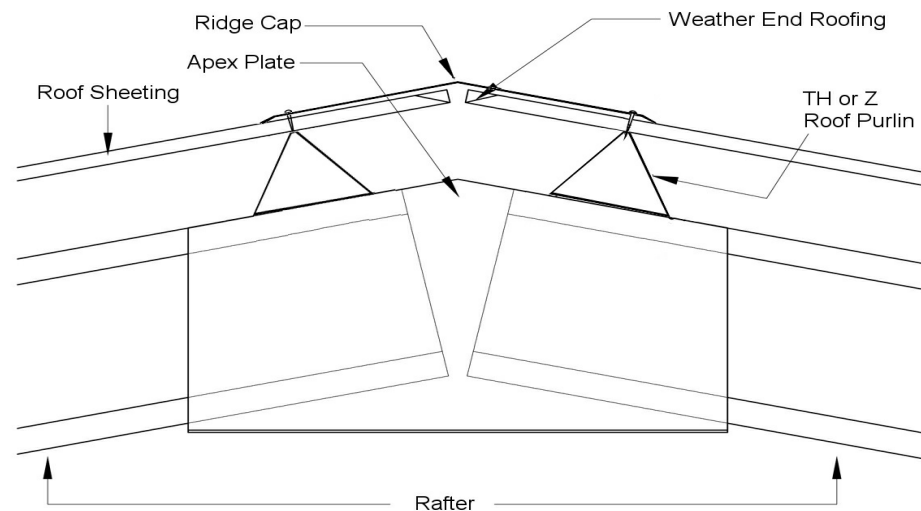
Corner Flashing XF25 - Connection



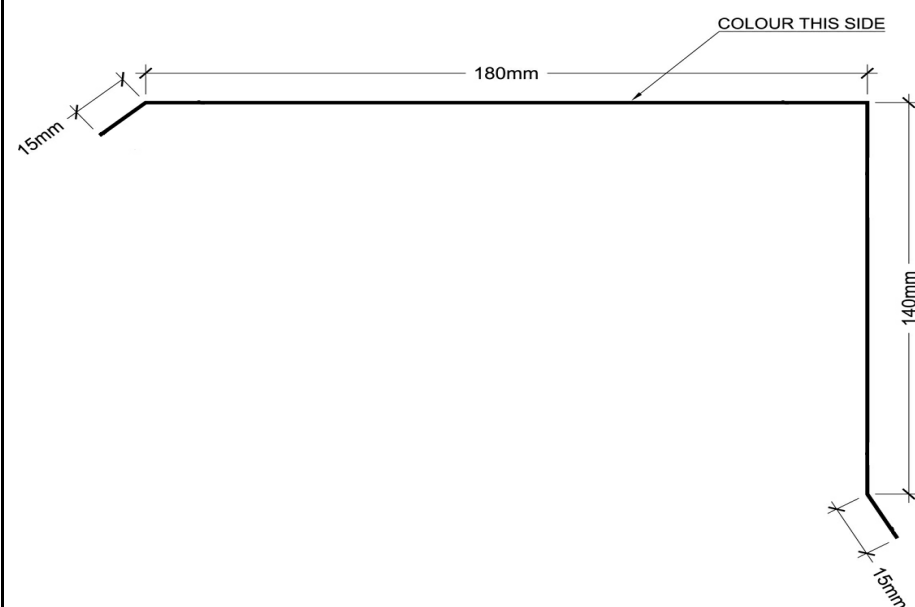
XF25

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Drawing # WSS180521 - 9	Print Date: 02/03/18			<div>Signature:  R. Nancarrow</div> <div>Date: 02/03/18</div>

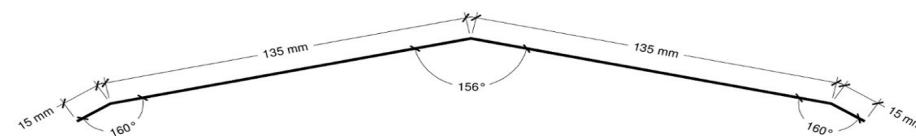




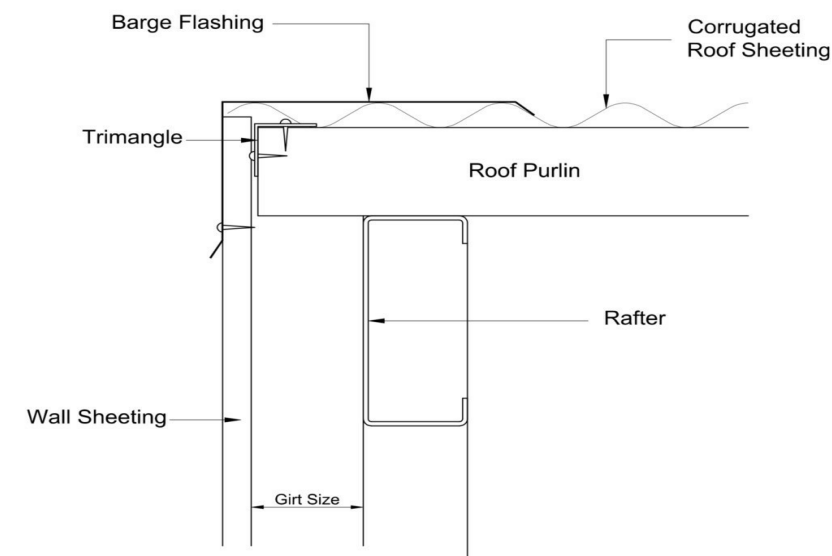
Ridge Cap - XF 82



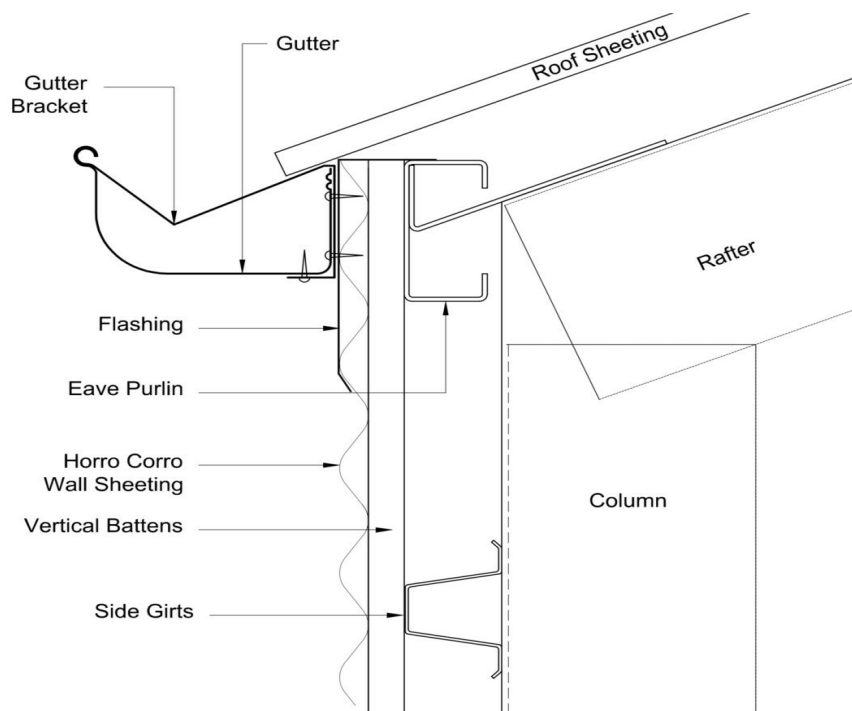
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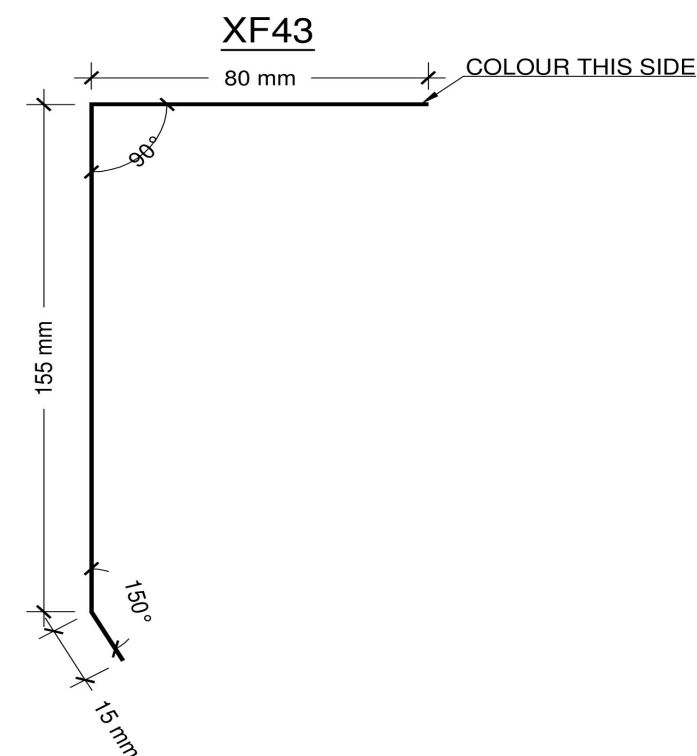
XF82



Barge Flashing XF12 - Sheeting Gable



Flashing XF43 - Connection



XF43

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Drawing # WSS180521 - 9

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### Flashing Fixing Details

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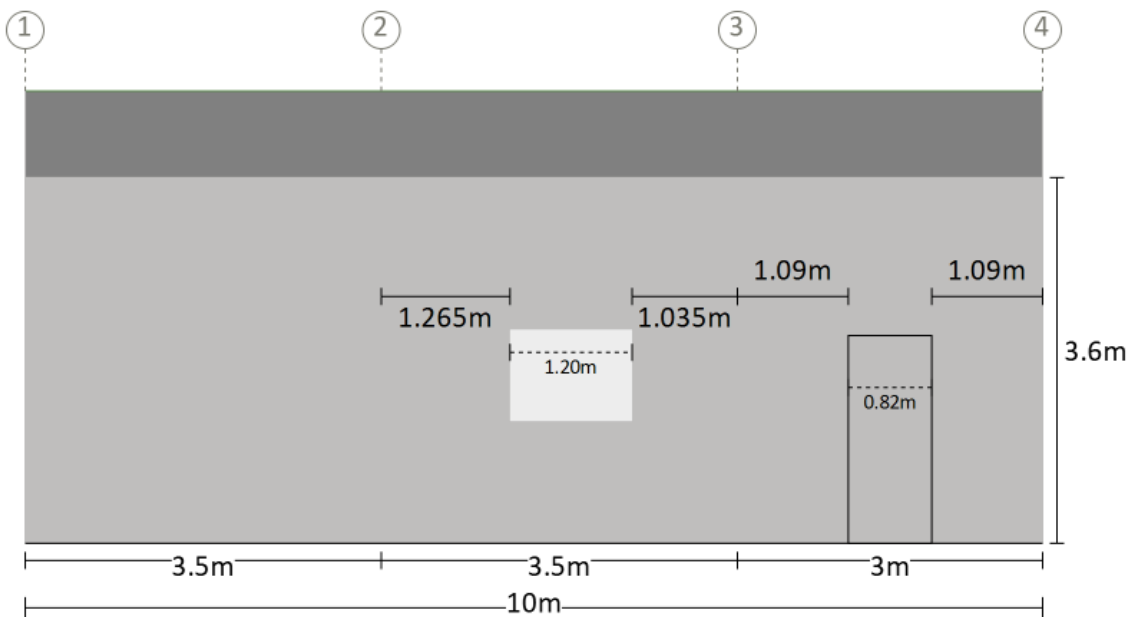
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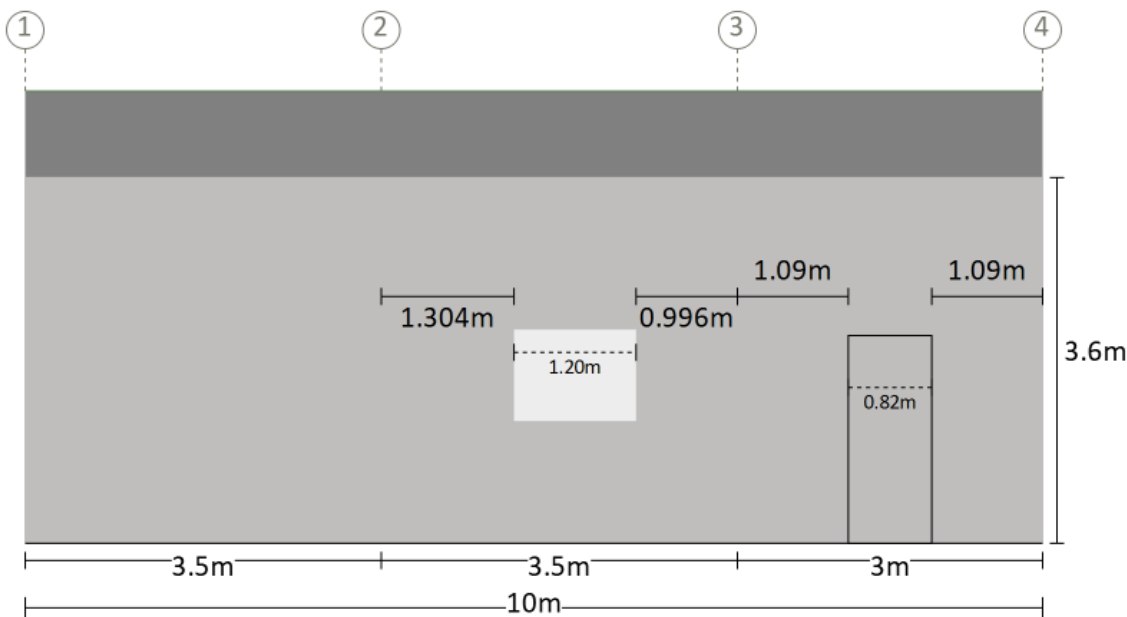
This setout is provided as a guide only. It is the responsibility of the concreter/erector to confirm that all dimensions are correct.

Left Side



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

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.

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**Component Position**  
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Not to Scale  
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