

## 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.

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 Earlier plans provided may have become outdated due to engineering changes and should not be used.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

## ADDITIONAL DOCUMENTATION TO BE SUPPLIED BY PURCHASER/OWNER

The Purchaser/Owner is responsible for:

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

## BUILDING CONSTRUCTION REQUIREMENTS

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

## SLAB DETAILS

\* 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 plan, and relocate piers as required.

### Concrete Slab

\* Design covers sites with a minimum of 100kPa safe bearing capacity and of soil classification as nominated below for a class 10 building. Other than this, owner to provide slab and pier design details.

\* Designs are in accordance with AS 3600:2009

\* All concrete to be in accordance with AS 3600:2009. Minimum 25 Mpa, with 80mm slump.

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

\* For class A, S or M slab thickness to be a minimum of 100mm with SL 82 mesh. For class M D, H1, H1 D, H2, H2 D slab thickness to be a minimum of 125mm with SL 92 mesh and 40mm top cover.

\* Refer to connection details.

\* Construction joints need to be placed at a maximum spacing of 6m (in both the length and the span). Care should be taken to avoid construction joints intersecting where any fixing to the slab is to be made.

\* Roller door jambs to have a minimum of 200mm deep by 300mm x 300mm concrete under. 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 82 mesh, 50mm from the base in all thickenings.

### For Class A, S or M Sites

Piers under columns/mullions to be a minimum of C20019,C20024,C20015 - 400mm x 400mm x 700mm deep  
All Piers: No reinforcement required.

### For Class M-D, H1 or H1-D Sites

Piers under columns/mullions to be a minimum of C20019,C20024,C20015 - 400mm x 400mm x 1000mm deep.  
All Piers: No reinforcement required

### For Class H2 or H2-D Sites:

Piers under columns/mullions to be a minimum of C20019,C20024,C20015 - 400mm x 400mm x 1400mm deep.  
All Piers: Reinforced 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 500mm spacing. Tie with a minimum of 6mm diameter cage tie. Where pier diameter is less than or equal to 450mm diameter, use 4 N12. Over 450mm diameter, use 4 N15

### Concrete Piers

\* Pier design covers sites with a minimum of 100kPa safe bearing capacity and of soil classification as nominated below for a class 10 building. Other than this, owner to provide slab and pier design details

\* Designs are in accordance with AS 3600:2009

\* All concrete to be in accordance with AS 3600:2009. Minimum 25 Mpa, with 80mm slump.

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

\* All dimensions are from center of columns.

\* Refer to connection details.

\* Roller door mullion piers are not shown on the plans. These are required to be the same size as the end wall mullions.

### For Class A, S or M Sites

Piers to be a minimum of C20019,C20024,C20015 - 450mm dia x 750mm deep. Piers under 1000mm in depth do not require any steel reinforcement. Piers 1000mm or over in depth to have a minimum of 4 N16 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 500mm spacing. Tie with a minimum of 6mm diameter cage tie.

### For Class M D, H1 or H1 D Sites

Piers to be a minimum of C20019,C20024,C20015 - 450mm dia x 1000mm deep. Piers under 1000mm in depth do not require any steel reinforcement. Piers 1000mm or over in depth to have a minimum of 4 N16 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 500mm spacing. Tie with a minimum of 6mm diameter cage tie

### For Class H2 or H2-D Sites

Piers to be a minimum of C20019,C20024,C20015 - 450mm dia x 1500mm deep. All Piers to have reinforced 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 500mm spacing. Tie with a minimum of 6mm diameter cage tie. Where pier diameter is less than or equal to 450mm diameter, use 4 N12. Over 450mm diameter, use 4 N16.

## BRACING NOTES

\* Refer to Connection Details.

\* All bracing strap to be 32mm x 1.6mm G500

\* Where cross bracing is shown in a position that has some form of opening then, where possible place the cross brace in the nearest adjacent bay.

\* 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 at each purlin line to all mid portal rafters, columns and end wall mullions unless obstructed by other structural elements.

## BOLTS

\* Unless otherwise nominated, all bolts are grade 4.6 and zinc plated

\* Tension/Torque requirements are as follows:

Size	Grade	Tension (kN)	Torque (Nm)
M12	4.6	12.4	30
M12	8.8	31.8	77
M16	4.6	22.9	73
M16	8.8	59.2	190
M20	4.6	35.8	153
M20	8.8	95.6	372

## OTHER MATERIALS NOTES

\* Unless otherwise noted all brackets are 3mm G450 galvaspan.

\* All sheeting and flashing screws are class 3, all framing screws are class 3

\* All purlin material has Z350 zinc coating with minimum strengths as follows.

1.0 Material	G550Mpa
1.2 Material	G500Mpa
Above 1.2 Material	G450Mpa

Purchaser Name: Jadoo Homes

Site Address: 55 Chain o ponds Road MULGOA NSW Australia 2745

Drawing # Job SSWZ130054 - 2

Print Date: 16/07/13

## General Notes

Seller: Sheds n Homes Sydney City And West

Baylex Pty Ltd

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SHOWERS ENGINEERING PTY LTD

ACN: 075 007 144

MIE Aust. CPing (Registered NPIER Structural & Civil) 321787

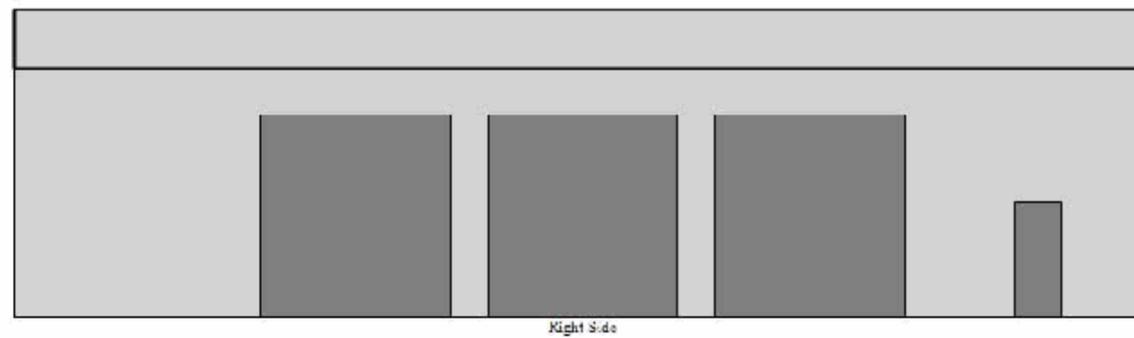
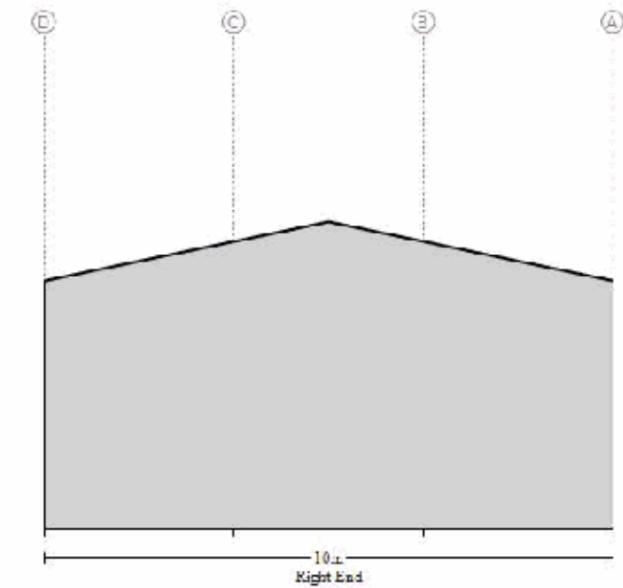
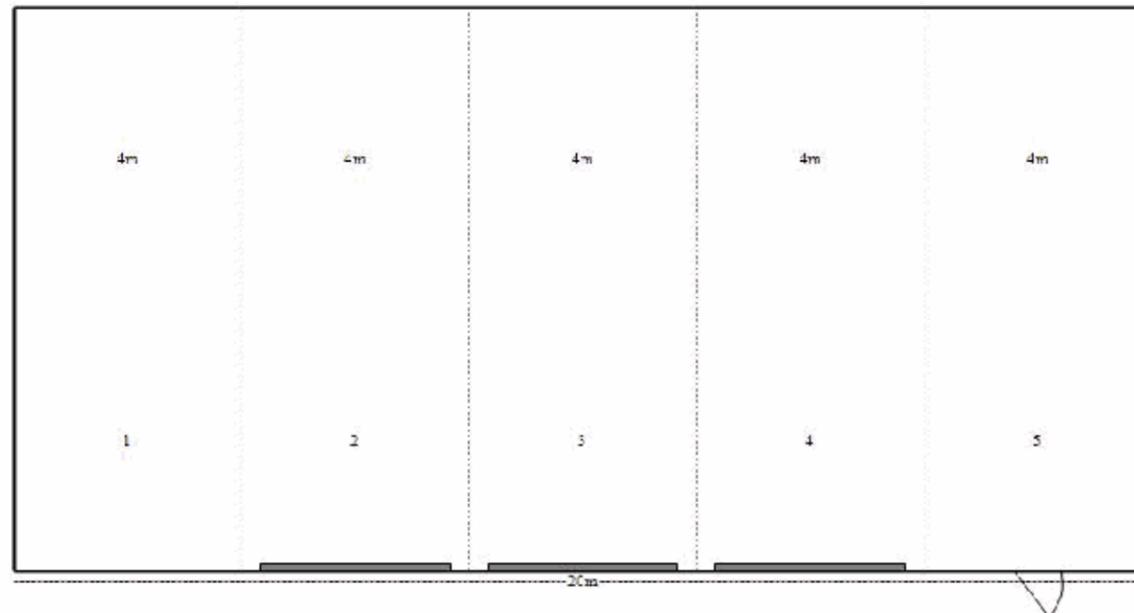
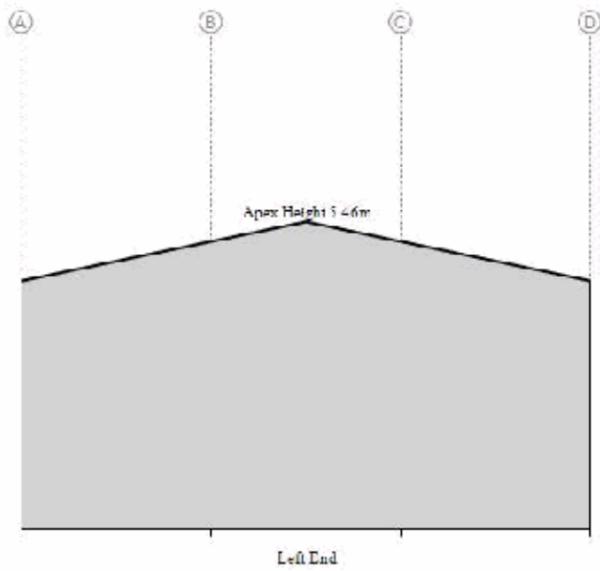
Q.L.D - RPEQ No 1547; VIC - EC24162; TAS - CC4600II; N.T - 46926TS;

Practising Professional Structural & Civil Engineer

Signature:

R.J. Showers

Date: 16/07/13



Purchaser Name: Jadoo Homes

Site Address: 55 Chain o ponds Road MULGOA NSW Australia 2745

Drawing # Job SSWZ130054 - 3

Print Date: 16/07/13

## Layout

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**Practising Professional Structural & Civil Engineer**

Signature:

R.J. Showers

Date: 16/07/13

# MATERIAL SPECIFICATIONS

## Building Dimensions

Categories	Span	Length	Height	Grid(s)	Portal(s)
Main Building	10	20	4.4	A - D	1 - 6

## Portal Frame Elements

Grid / Portal Number	1	2	3	4	5	6	
Columns	A D	C20019 C20019	C20024 C20024	C20024 C20024	C20024 C20024	C20024 C20024	C20019 C20019
rafters	A - Apex Apex - D	C20015 C20015	C20015 C20015	C20015 C20015	C20015 C20015	C20015 C20015	C20015 C20015
End Wall Mullions	B C	C20015 C20015	- -	- -	- -	- -	C20015 C20015
Apex Braces	Apex	-	C15015	C15015	C15015	C15015	-
Knee Braces	A - Apex Apex - D	- -	C15015 C15015	C15015 C15015	C15015 C15015	C15015 C15015	- -

## Bay Section Elements

Grid / Bay Number	1	2	3	4	5
Bay Widths	4	4	4	4	4
Roof Purlins	A - Apex Apex - D	H64075 H64075	H64075 H64075	H64075 H64075	H64075 H64075
Roof Purlin Spacing (Fix)	A - Apex Apex - D	0.9 0.9	0.9 0.9	0.9 0.9	0.9 0.9
Roof Purlin Spacing (Internal Spans)	A - Apex Apex - D	1.087 1.087	1.087 1.087	1.087 1.087	1.087 1.087
Save Purlin	A D	C10010 C10010	C10010 C10010	C10010 C10010	C10010 C10010
Side Girts	A D	H64100 H64100	H64100 H64100	H64100 H64100	H64100 H64100
Side Girts Spacing (End)	A D	1.038 1.038	1.038 1.038	1.038 1.038	1.038 1.038
Side Girts Spacing (Internal)	A D	1.038 1.038	1.038 1.038	1.038 1.038	1.038 1.038
Roller Door Header	D	-	C18012	C18012	C18012
Roller Door Jamb	D	-	C20019	C20019	C20019
RA Door Header	D	-	-	-	C10010
RA Door Jamb	D	-	-	-	C10012

## End Bay Section Elements

Grid / Portal Number	1	2	3	4	5	6
End Girts	A - B D - C	H64075 H64075	- -	- -	- -	H64075 H64075
End Girts Spacing (End)	A - B D - C	1.038 1.038	- -	- -	- -	1.038 1.038
End Girts Spacing (Internal)	A - B B - C C - D	1.038 1.038 1.038	- - -	- - -	- - -	1.038 1.038 1.038

## Sheeting Elements

Categories	Colour	Profile
Roof	Colorbond	Corodak 0.42 BMT (0.47TCT)
Wall	Colorbond	Trimclad 0.42 BMT (0.47TCT)

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Drawing # Job SSWZ130054 - 4

Print Date: 16/07/13

# Specification Sheet

Page 1 of 1

Seller: Sheds n Homes Sydney City And West

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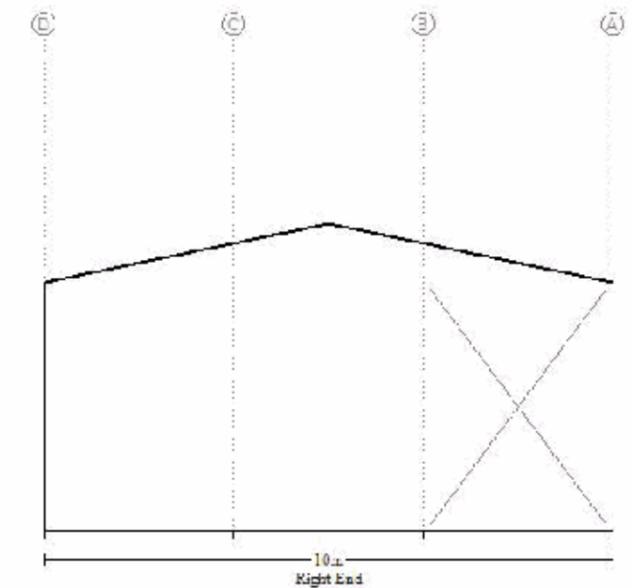
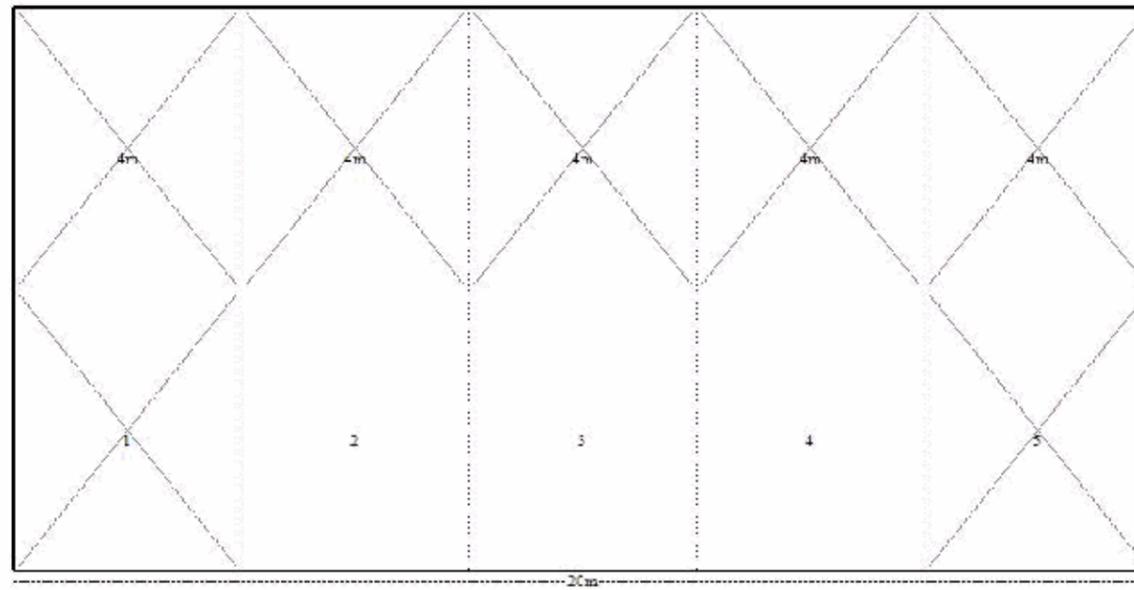
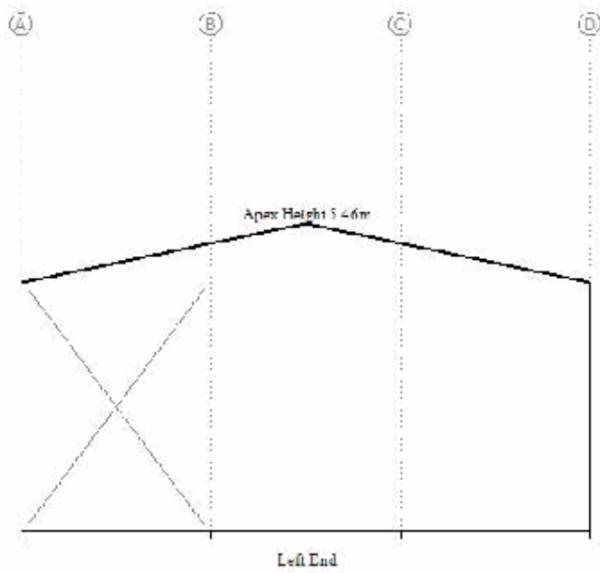
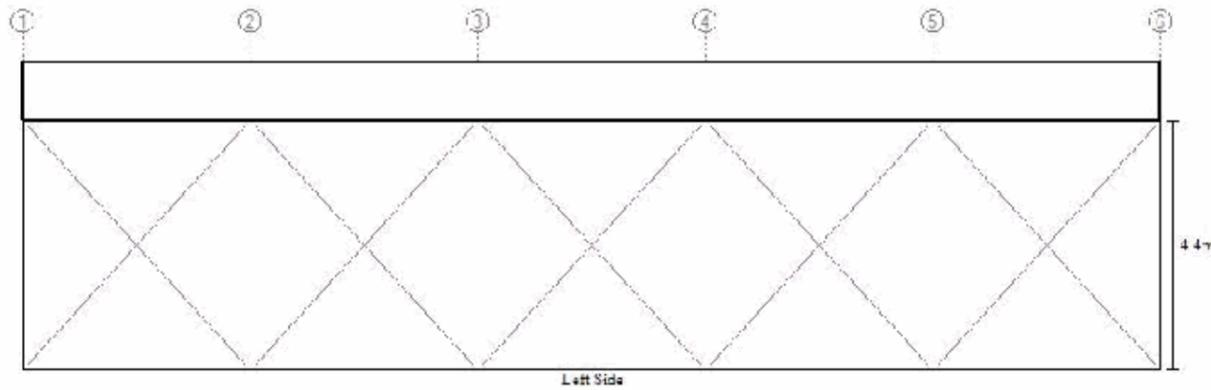
**Practising Professional Structural & Civil Engineer**

Signature:



R.J. Showers

Date: 16/07/13



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Drawing # Job SSWZ130054 - 5

Print Date: 16/07/13

## Bracing

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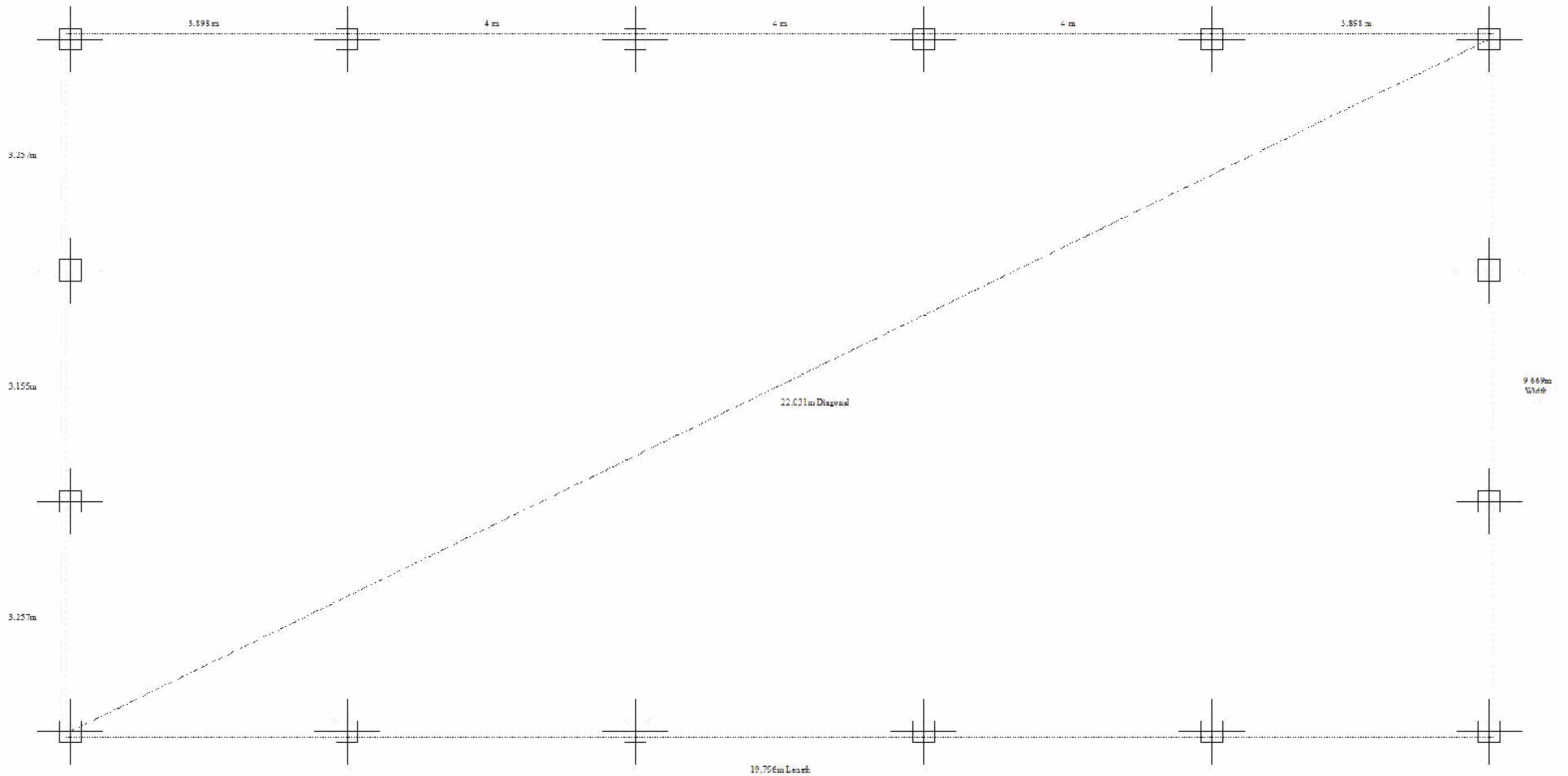
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Signature:

R.J. Showers

Date: 16/07/13



Purchaser Name: Jadoo Homes

Site Address: 55 Chain o ponds Road MULGOA NSW Australia 2745

Drawing # Job SSWZ130054 - 6

Print Date: 16/07/13

## Concrete Piers

(Use only when NO Slab)

Not to Scale

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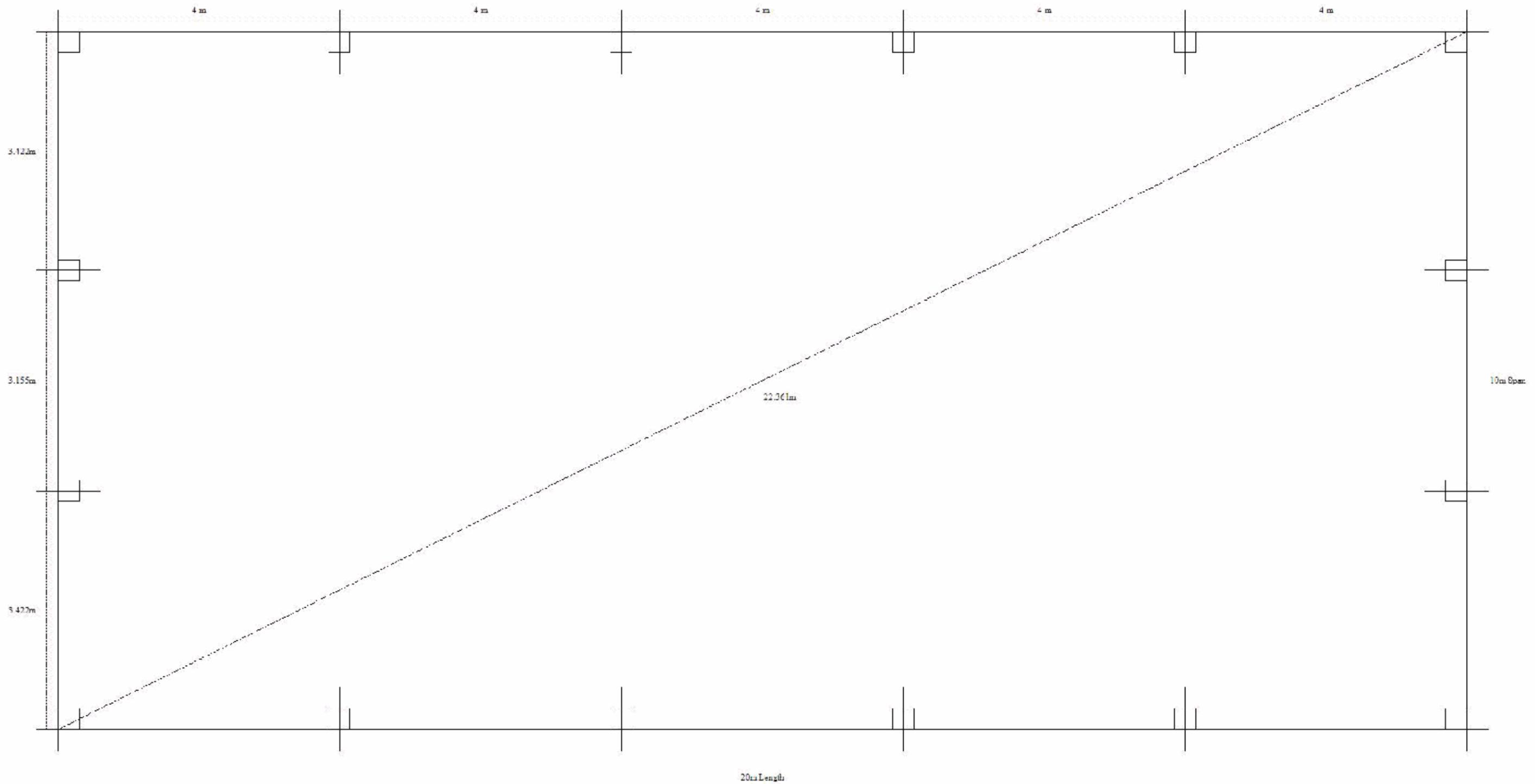
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Signature:

R.J. Showers

Date: 16/07/13



Purchaser Name: Jadoo Homes

Site Address: 55 Chain o ponds Road MULGOA NSW Australia 2745

Drawing # Job SSWZ130054 - 7

Print Date: 16/07/13

## Slab

(Use only if a Slab is being laid)

Not to Scale

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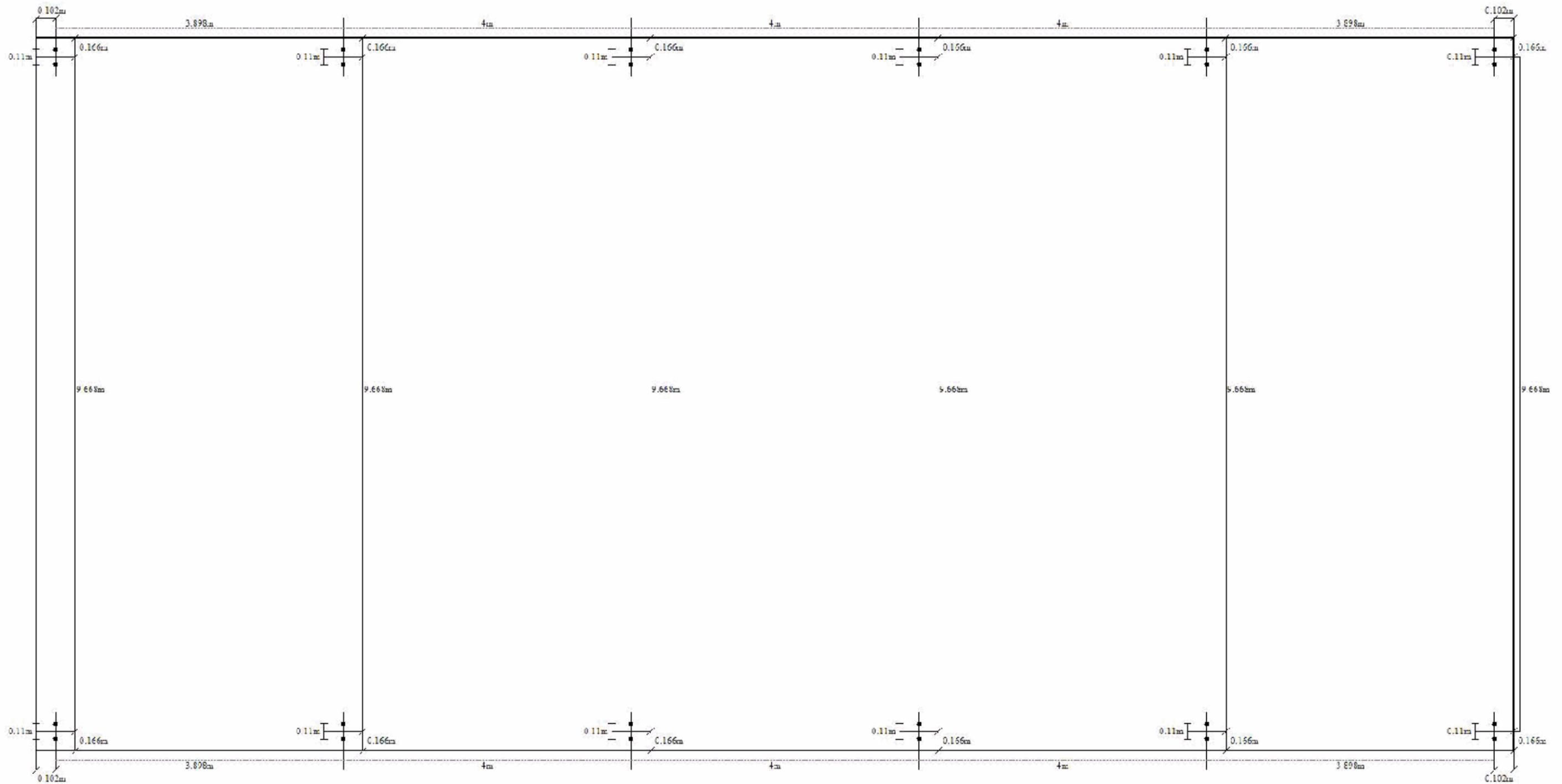
Practising Professional Structural & Civil Engineer

Signature:

R.J. Showers

Date: 16/07/13

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



Purchaser Name: Jadoo Homes

Site Address: 55 Chain o ponds Road MULGOA NSW Australia 2745

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## Bolt Setout

Not to Scale

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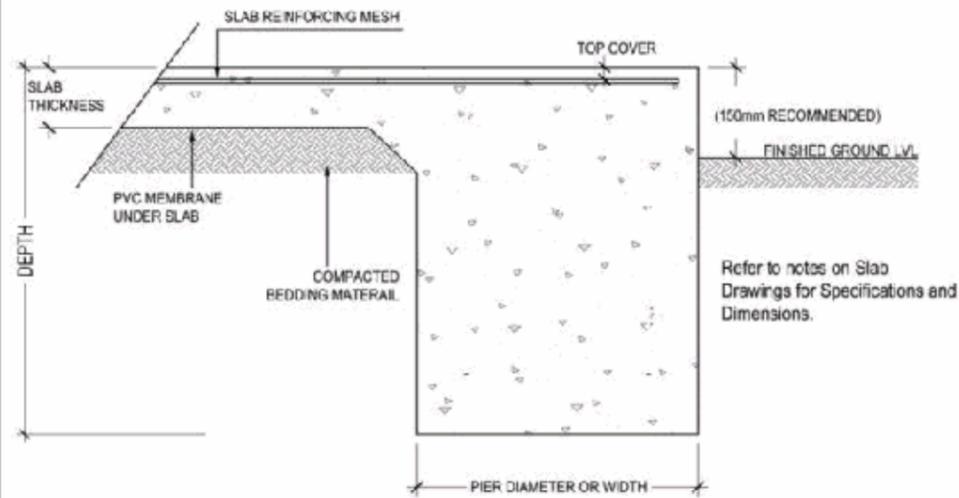
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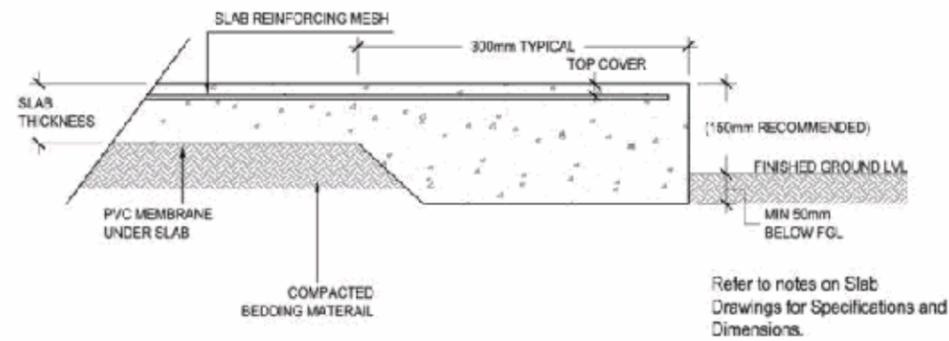
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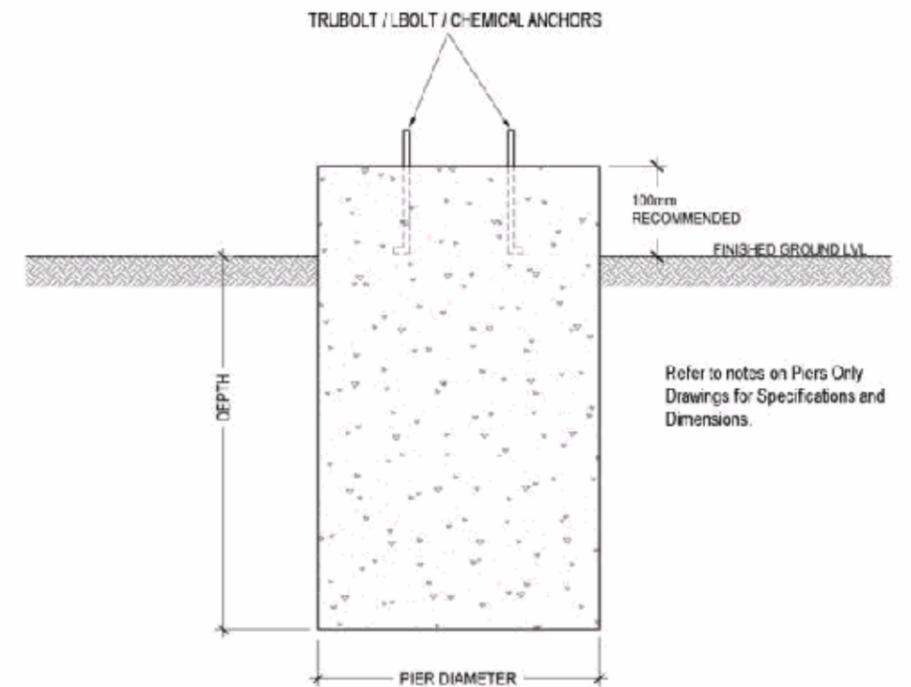
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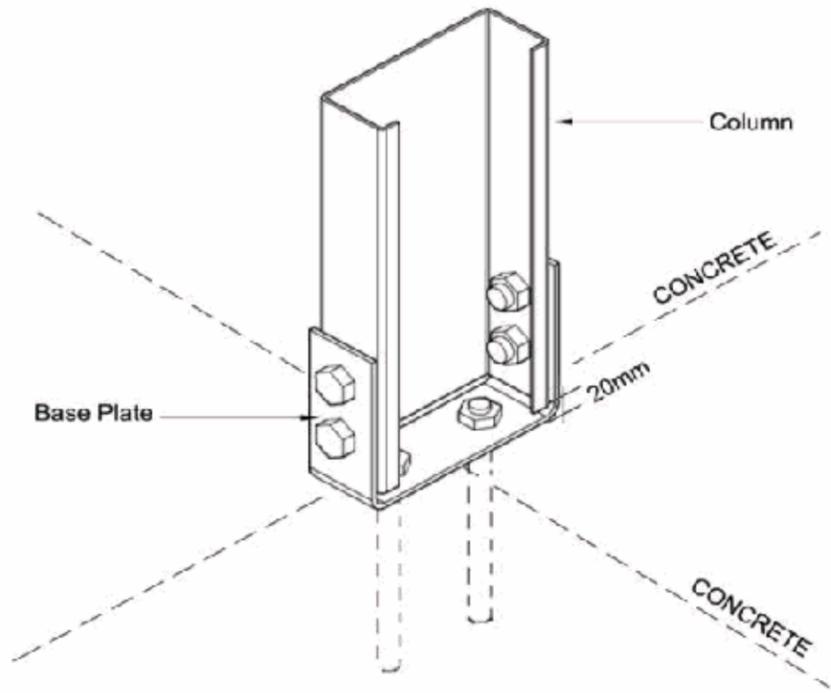
SLAB AND PIER DETAIL



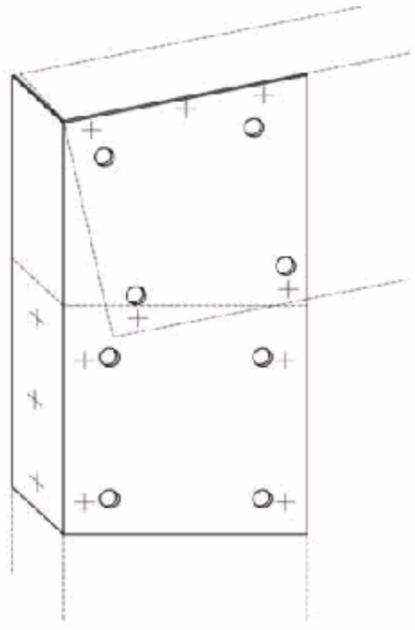
SLAB DETAIL BETWEEN PIERS



BORED PIER

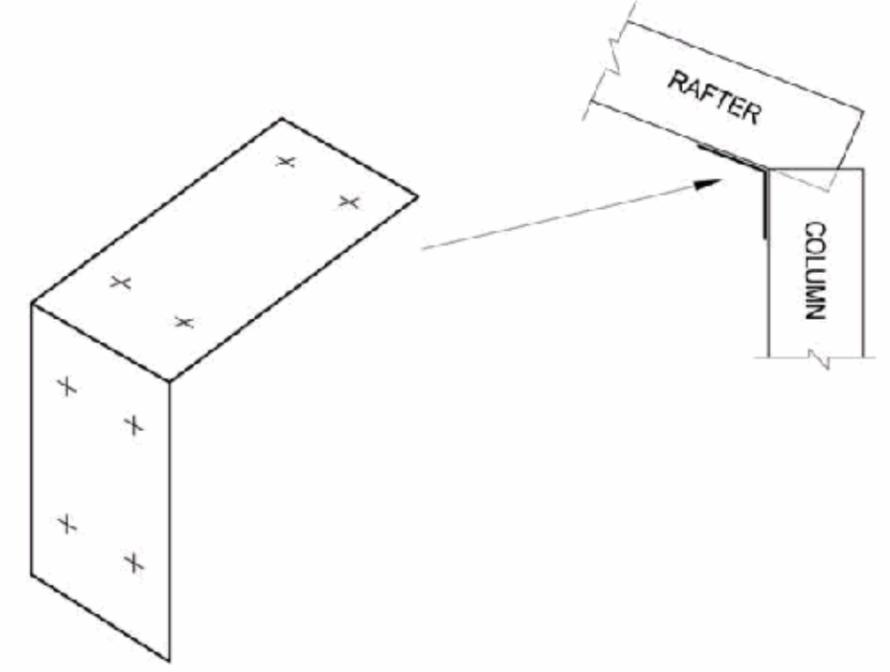


FIXING BOLTS - 4 of M12 x 30  
 2 of M12 x 160 CHEMANCHOR BOLTS  
**C200 MAIN COLUMN FIXING**



○ FIXING BOLTS - 8 of M12 x 30  
 × FIXING SCREWS - 12 of 14.20 x 22

HAUNCH PLATE - C200 (ENCLOSED END WALL)



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

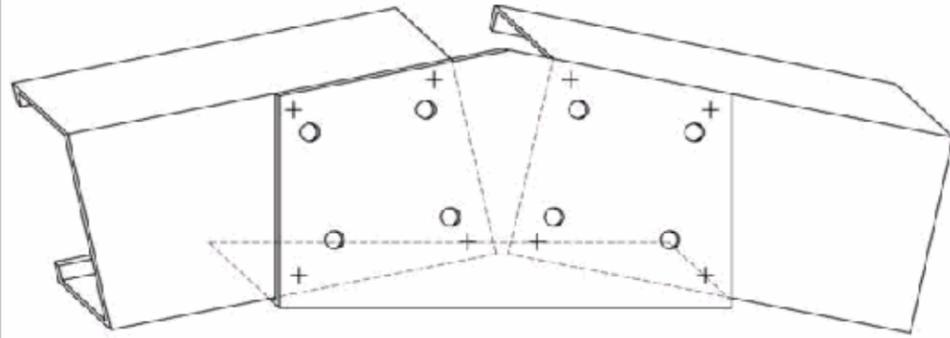
Purchaser Name: Jadoo Homes  
 Site Address: 55 Chain o ponds Road MULGOA NSW Australia 2745  
 Drawing # Job SSWZ130054 - B  
 Print Date: 16/07/13

**Connection Details**

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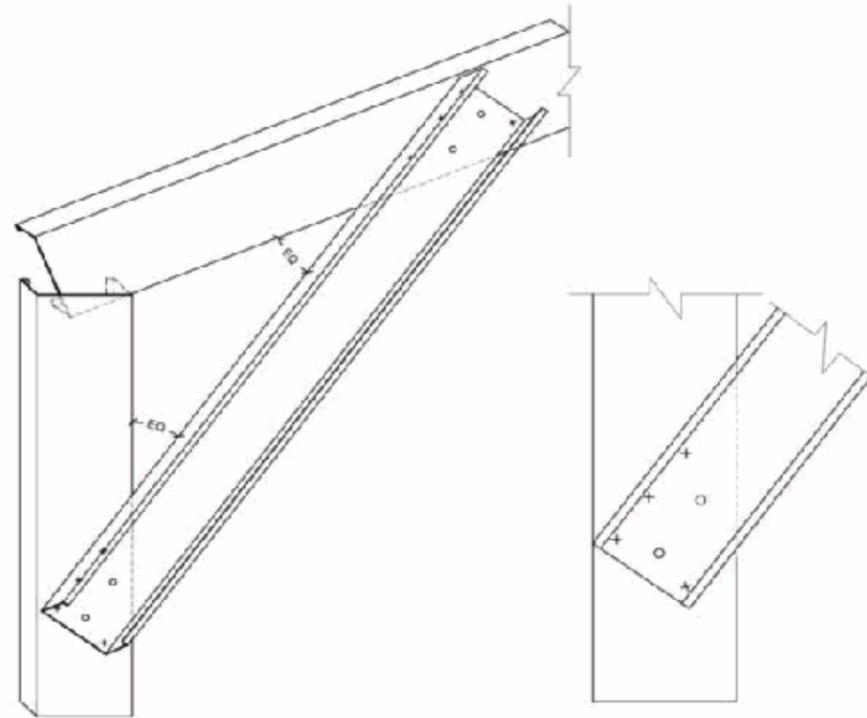
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**Practising Professional Structural & Civil Engineer**

Signature:  R.J. Showers  
 Date: 16/07/13



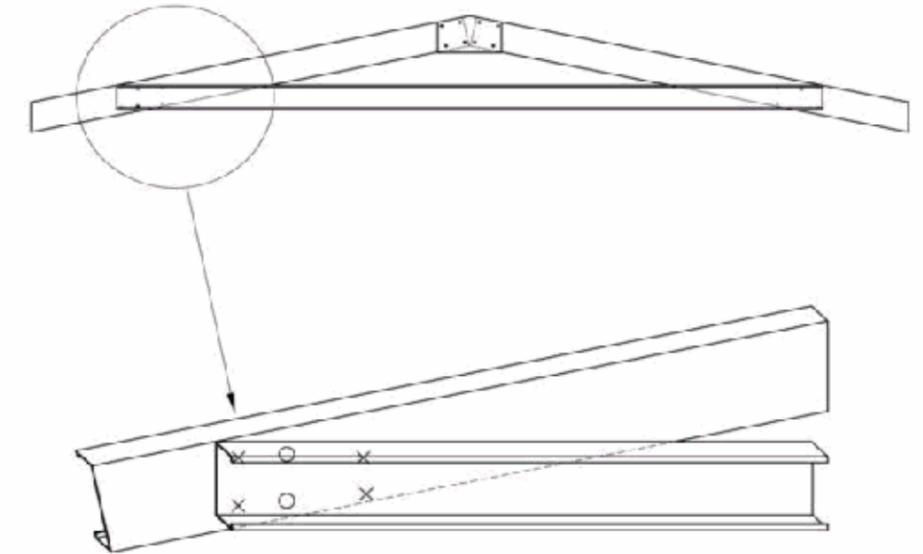
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- × FIXING SCREWS - 8 of 14.20 x 22

**APEX PLATE C200**



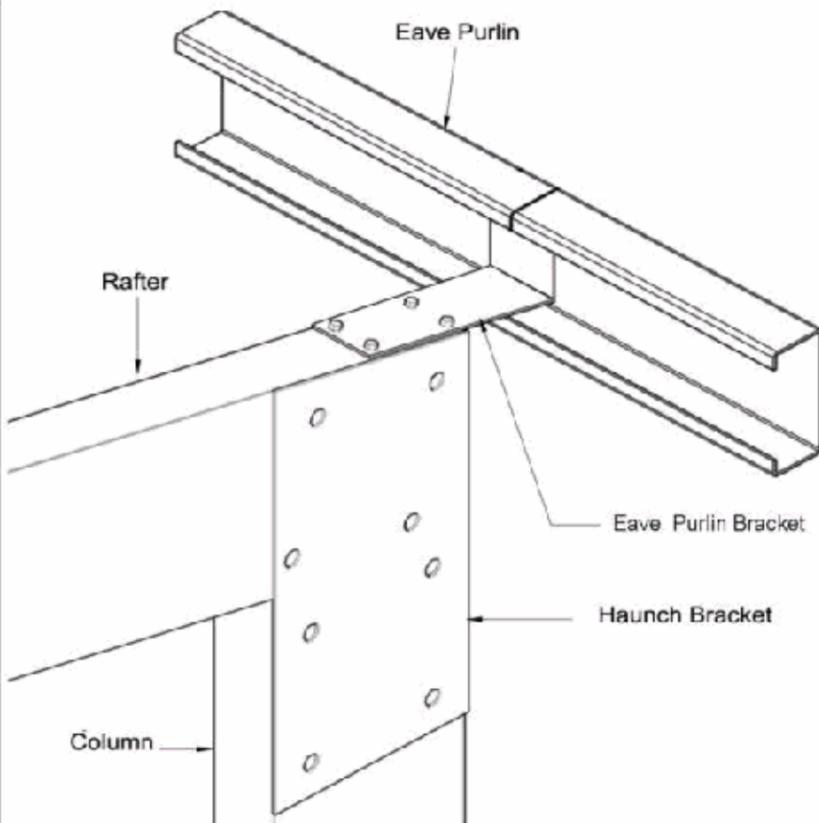
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- × FIXING SCREWS - 8 of 14.20 x 22

**KNEE BRACE FOR C200 SINGLE COLUMN - SINGLE RAFTER**

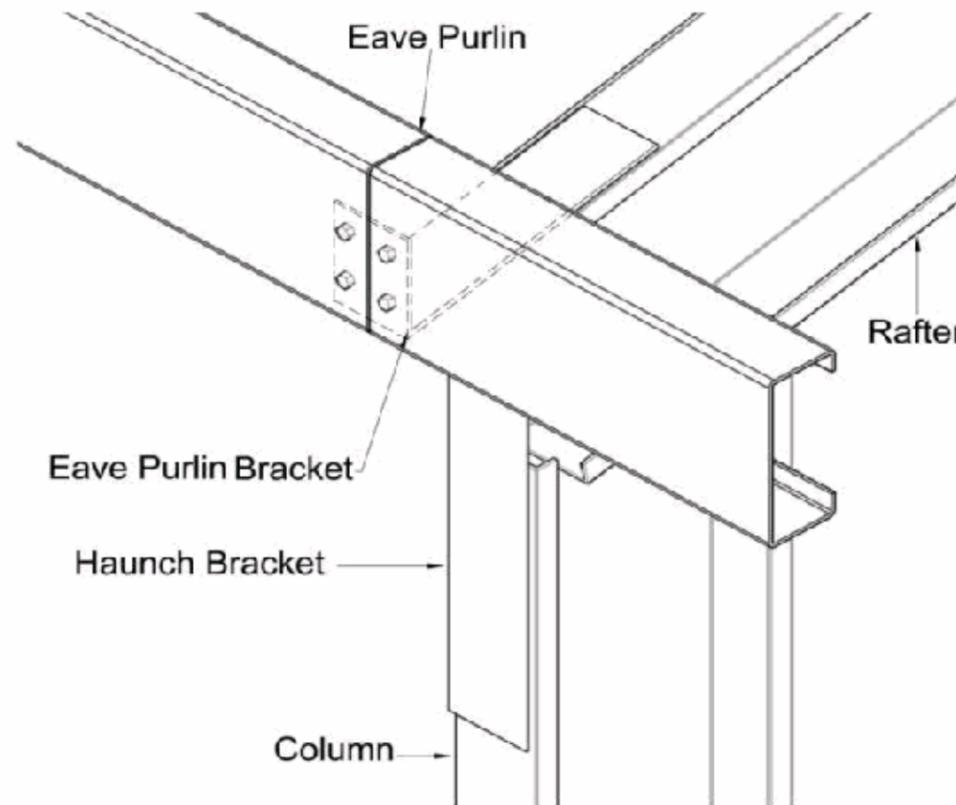


- FIXING BOLTS - 4 of M12 x 30
- × FIXING SCREWS - 8 of 14.20 x 22

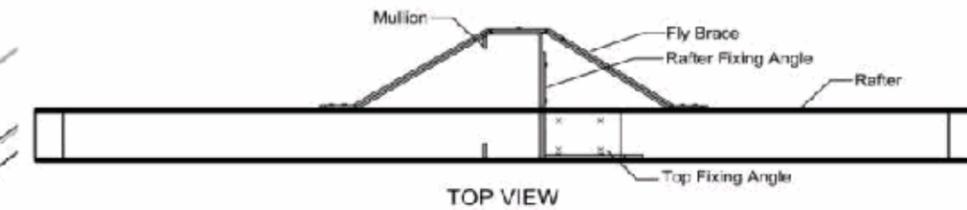
**APEX BRACE C200 RAFTER**



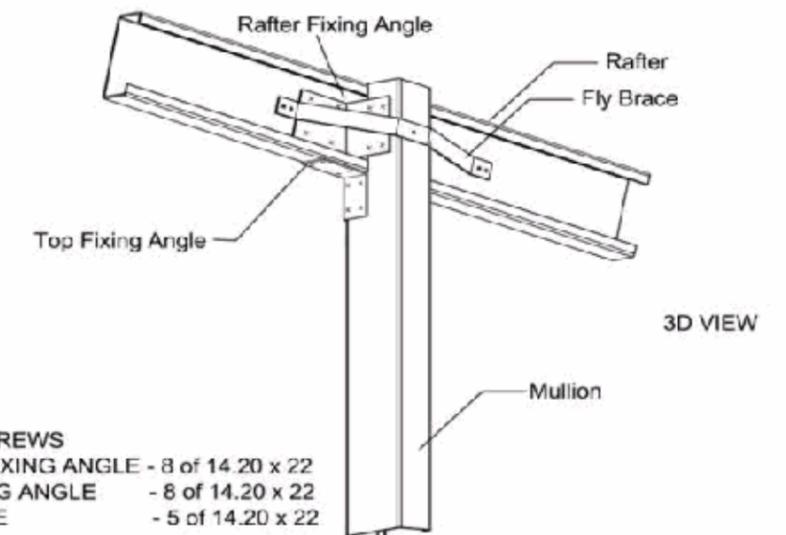
**FIXING SCREWS - 4 of 14.20 x 22**  
**EAVE PURLIN BRACKET TO RAFTER**



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



**TOP VIEW**



**3D VIEW**

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

**END WALL MULLION TO RAFTER**

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Site Address: 55 Chain o ponds Road MULGOA NSW Australia 2745

Drawing # Job SSWZ130054 - B

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## Connection Details

Page 2 of 5

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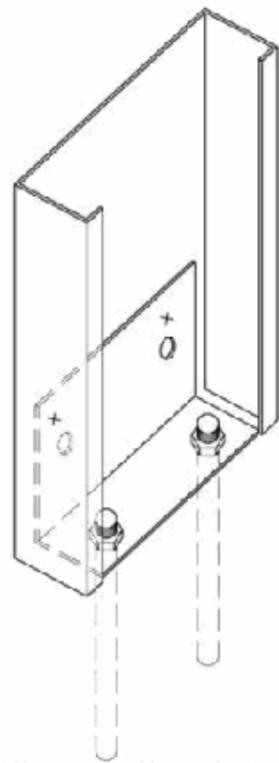
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**Practising Professional Structural & Civil Engineer**

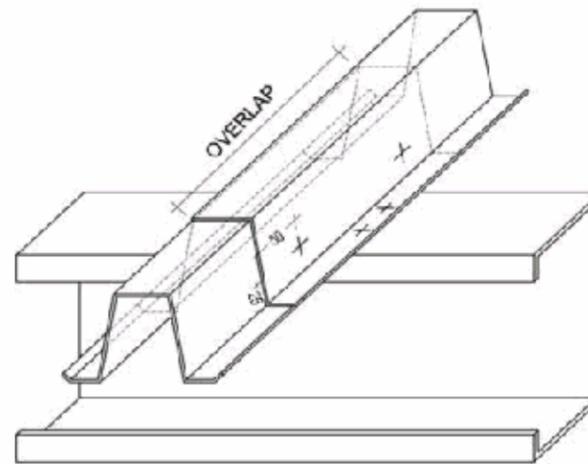
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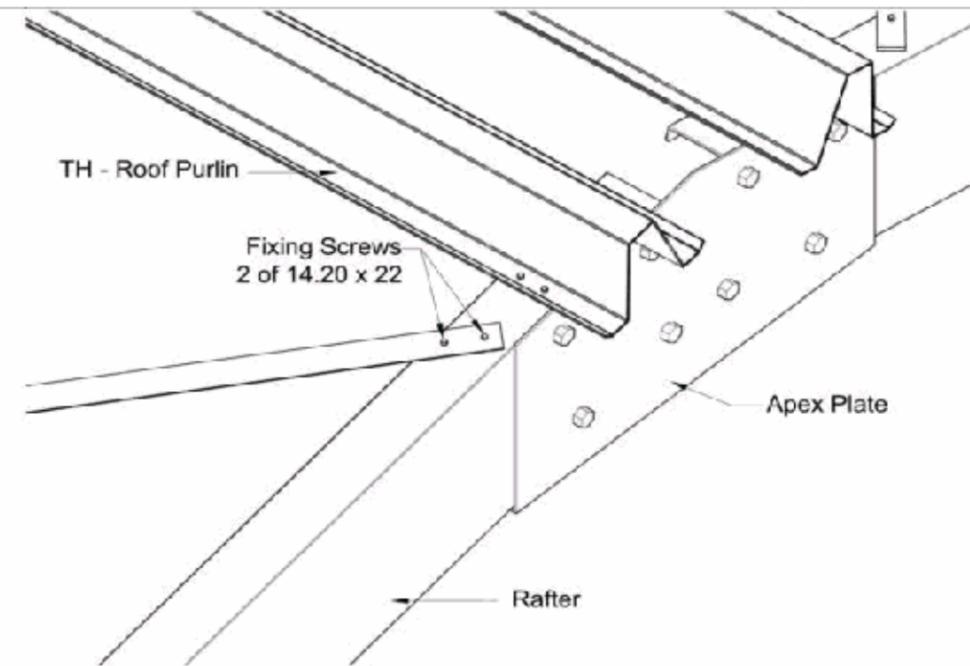
Date: 16/07/13



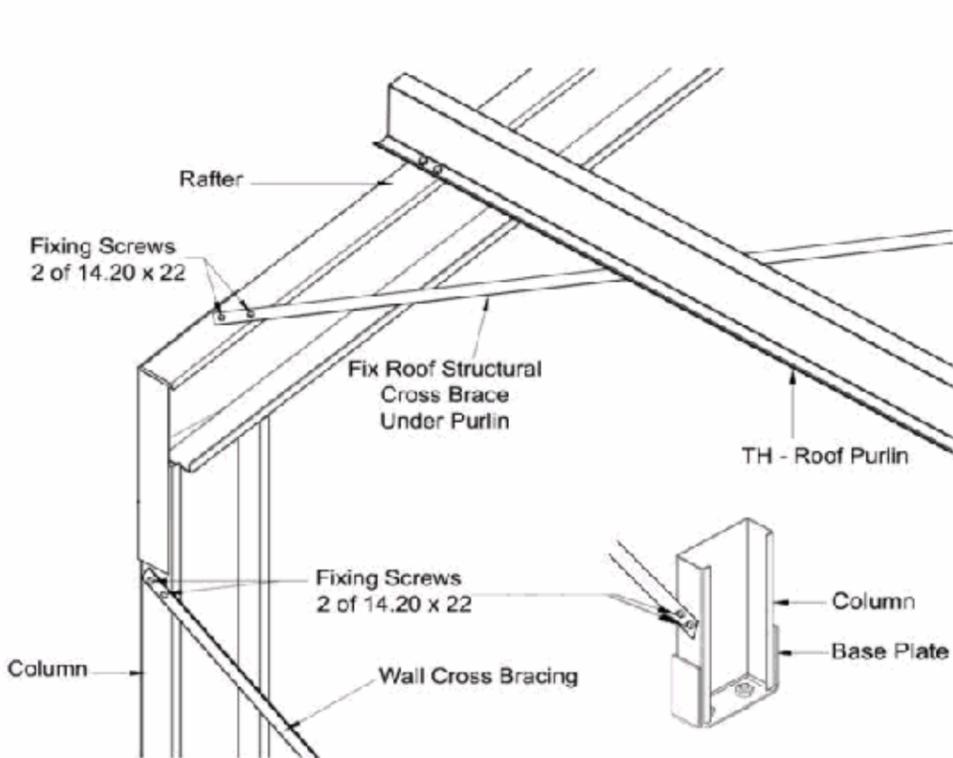
× FIXING SCREWS - 2 of 14.20 x 22  
 ○ FIXING BOLTS - 2 of M12 x 30  
 2 of M12 x 160 STUD BOLT FOR CHEMICAL ANCHOR  
**C200 MULLION BASE PLATE**



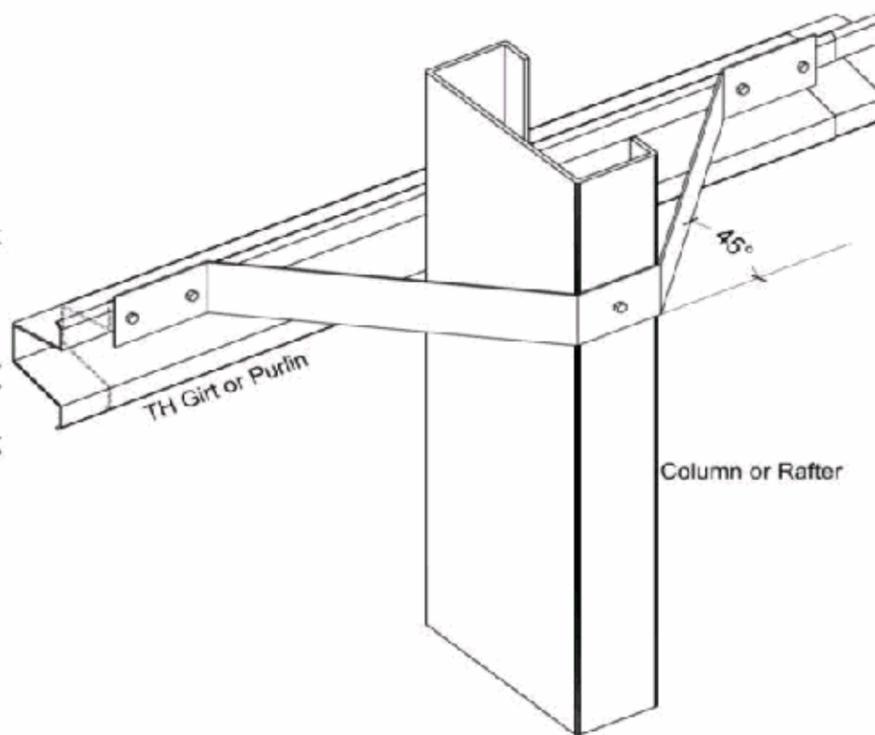
× FIXING SCREWS - 8 of 14.20 x 22  
 LAP = Greater of 10% of span or 500 mm  
**PURLIN/GIRT FIXING - TOPHAT 64  
 SINGLE COLUMN OR RAFTER**



**BRACING CONNECTION AT APEX**



**BRACING CONNECTION**



FIXING SCREWS - 5 of 14.20 x 22  
**FLY BRACING**

Purchaser Name: Jadoo Homes

Site Address: 55 Chain o ponds Road MULGOA NSW Australia 2745

Drawing # Job SSWZ130054 - B

Print Date: 16/07/13

## Connection Details

Page 3 of 5

Seller: Sheds n Homes Sydney City And West

Baylex Pty Ltd

Phone: (02) 4735 4917

Fax:

Email: paul.lommerse@shedsnhomes.com.au

**SHOWERS ENGINEERING PTY LTD**

ACN: 075 007 144

MIE Aust. CPing (Registered NPIR Structural & Civil) 121787

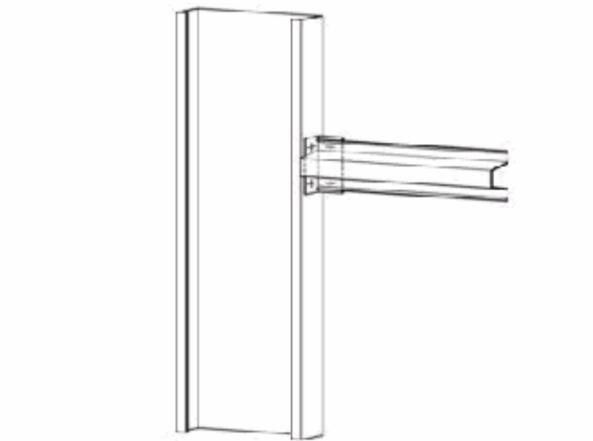
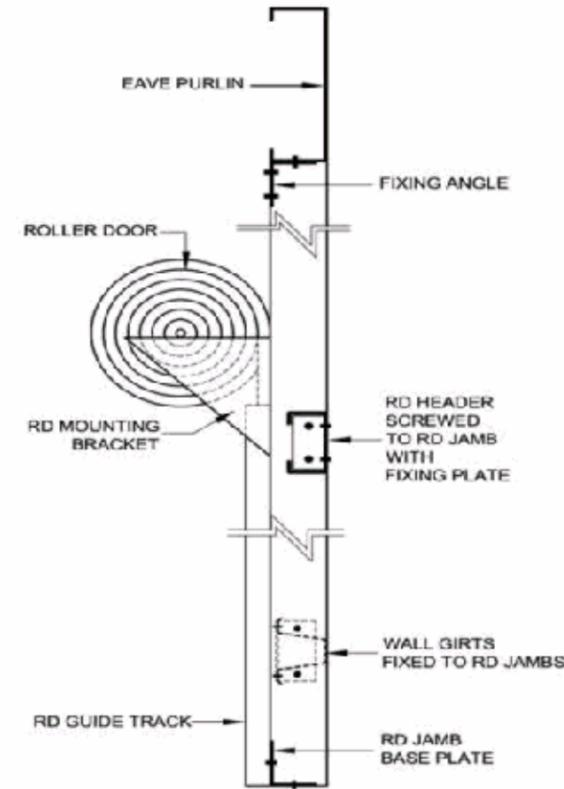
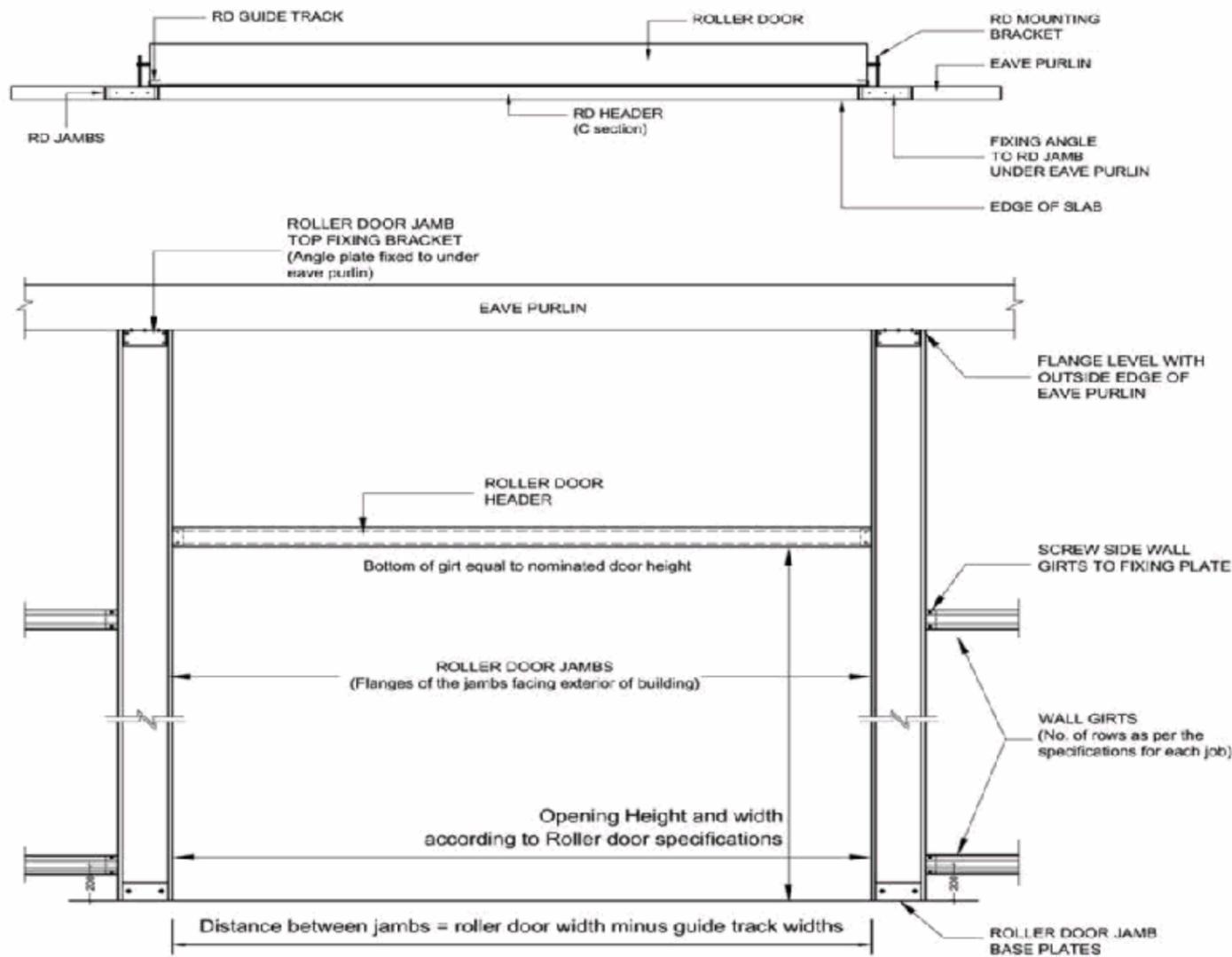
QLD - RPEQ No 1547; VIC - EC24162; TAS - CC4600II; NT - 46926TS;

**Practising Professional Structural & Civil Engineer**

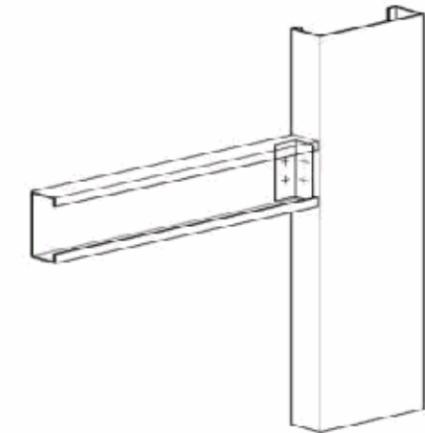
Signature:

R.J. Showers

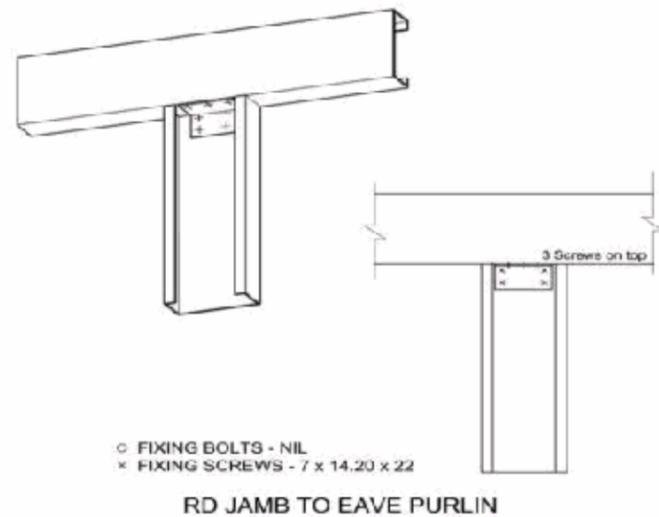
Date: 16/07/13



FIXING SCREWS - 4 of 14.20 x 22  
GIRT FIXING TO MULLIONS - TOPHAT SECTION

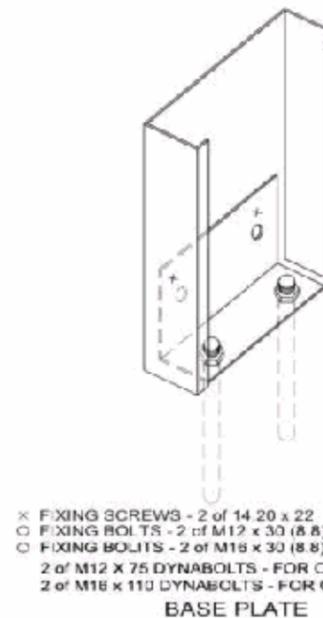


X FIXING SCREWS - 4 of 14.20 x 22  
DOOR HEADER FIXING



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

RD JAMB TO EAVE PURLIN



× FIXING SCREWS - 2 of 14.20 x 22  
○ FIXING BOLTS - 2 of M12 x 30 (8.8) - FOR C150 & C200 JAMBS  
○ FIXING BOLTS - 2 of M18 x 30 (8.8) - FOR C250 & C300 JAMBS  
2 of M12 x 75 DYNABOLTS - FOR C150 & C200 JAMBS  
2 of M18 x 110 DYNABOLTS - FOR C250 & 300 JAMBS  
BASE PLATE

## ROLLER DOOR DETAILS

Side walls ONLY

Purchaser Name: Jadoo Homes

Site Address: 55 Chain o ponds Road MULGOA NSW Australia 2745

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## Connection Details

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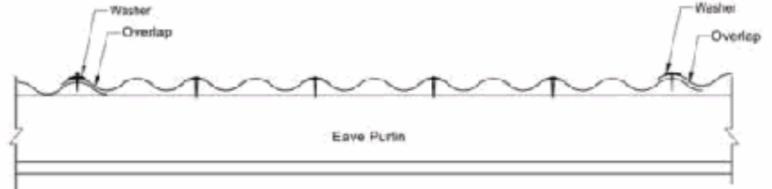
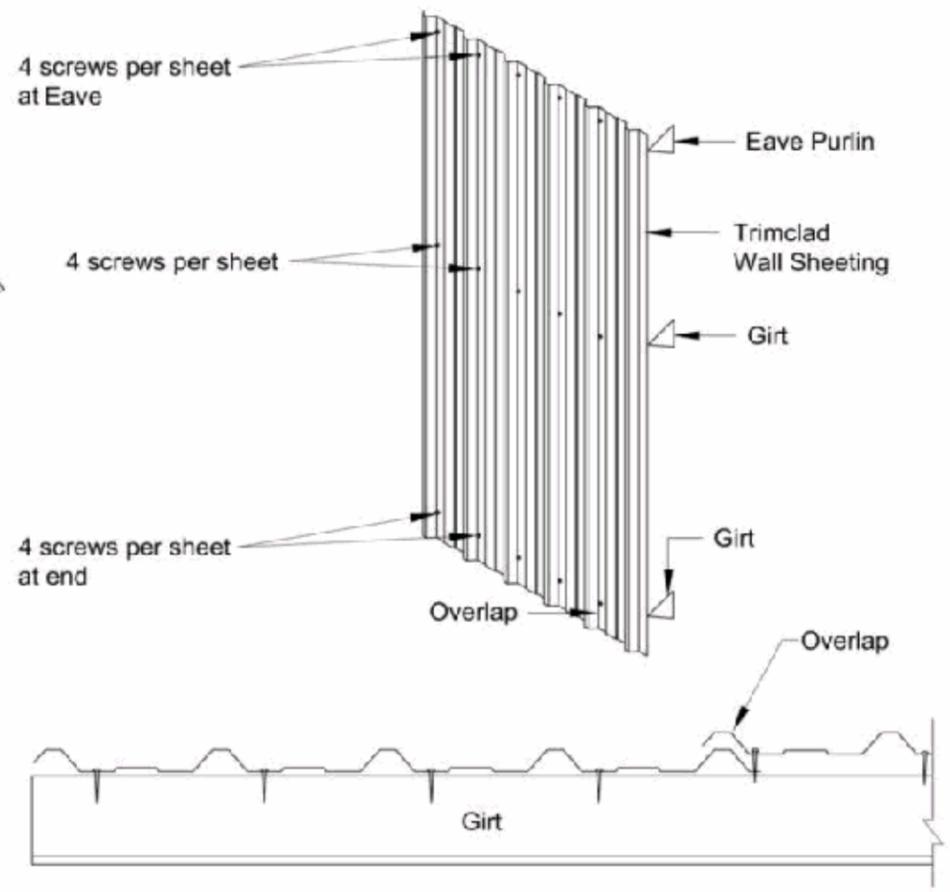
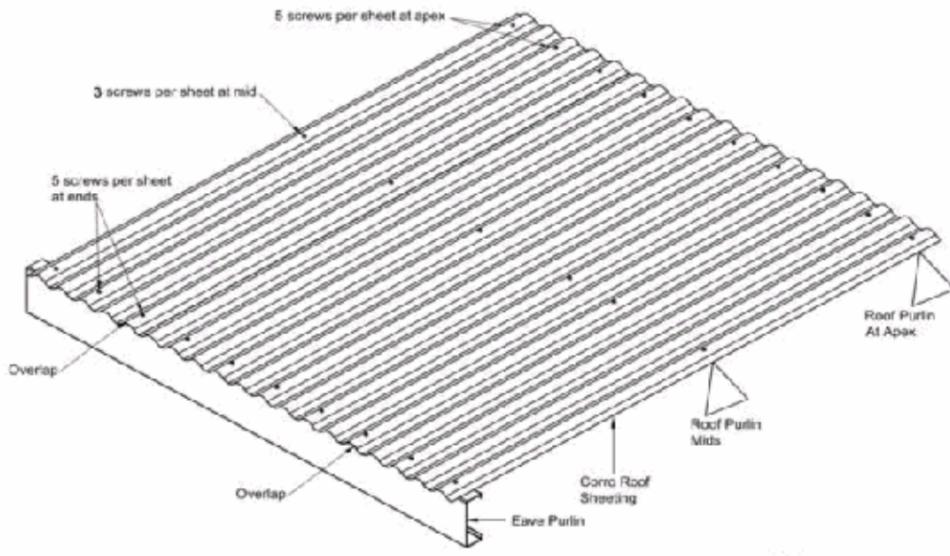
QLD - RPEQ No 1547; VIC - EC24162; TAS - CC4600II; NT - 46926TS;

Practising Professional Structural & Civil Engineer

Signature:

R.J. Showers

Date: 16/07/13



**CORRO ROOF SHEET FIXING**  
Roofing Screws - 12.14 x 35 Hex Seal High Grip

Purchaser Name: Jado Homes

Site Address: 55 Chain o ponds Road MULGOA NSW Australia 2745

Drawing # Job SSWZ130054 - B

Print Date: 16/07/13

## Connection Details

Page 5 of 5

Seller: Sheds n Homes Sydney City And West

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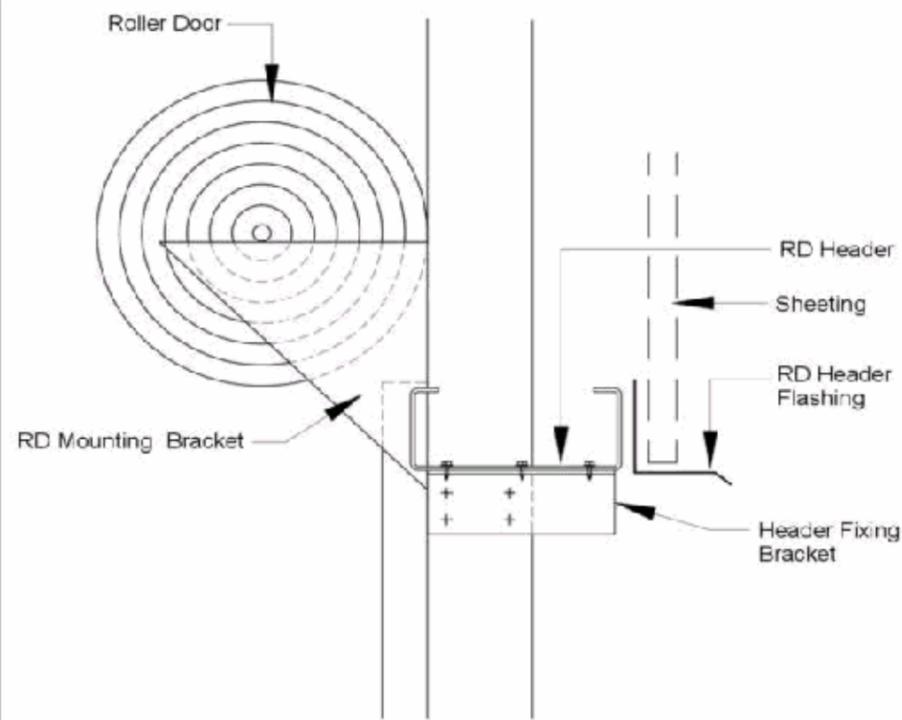
**SHOWERS ENGINEERING PTY LTD**

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MIE Aust: CPEng (Registered NPIR Structural & Civil) 121787  
QLD: RPEQ No 1547; VIC: EC24162; TAS: CC4600II; NT: 46926TS;  
**Practising Professional Structural & Civil Engineer**

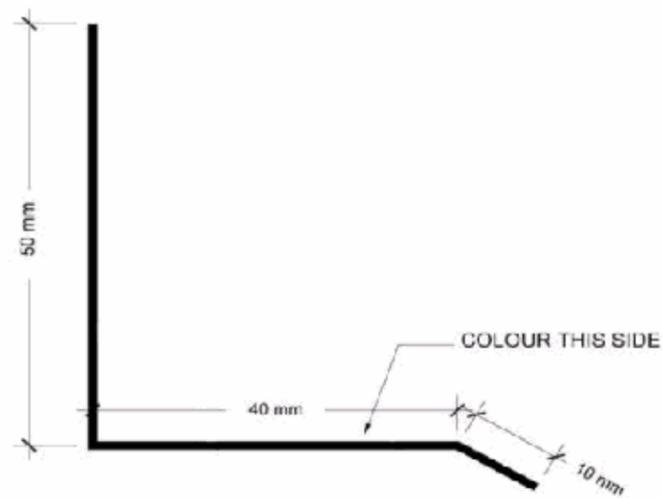
Signature:

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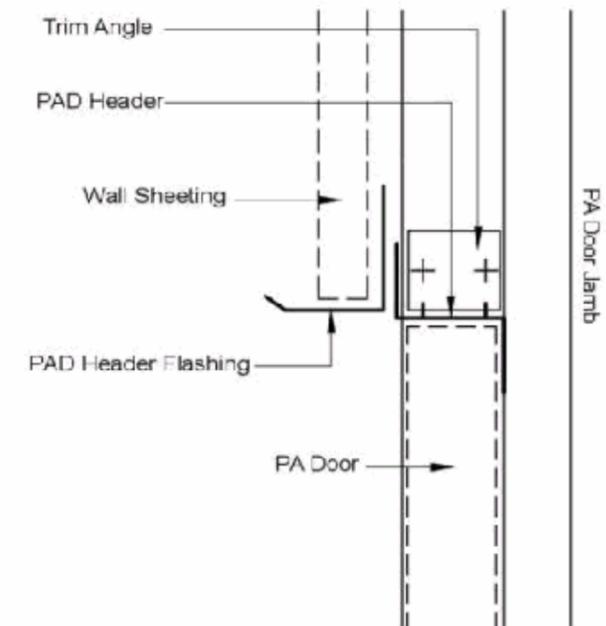
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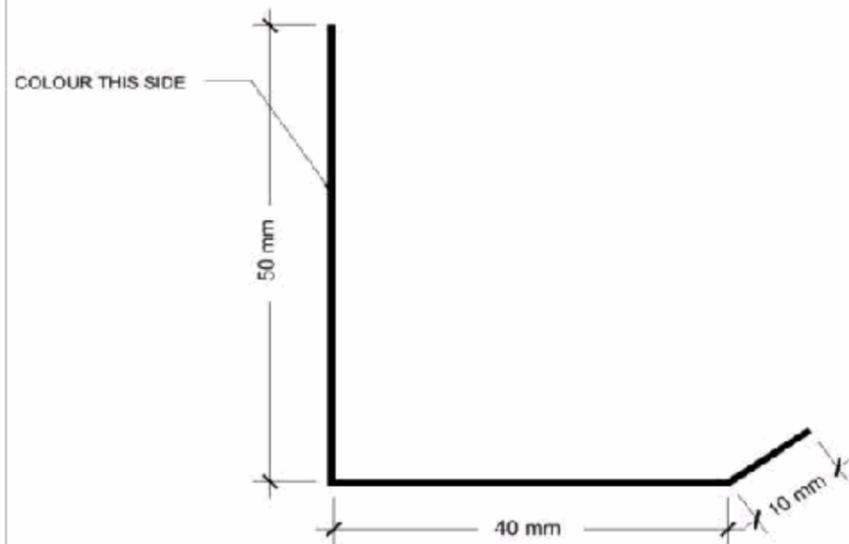
Roller Door Header Flashing - XF 30



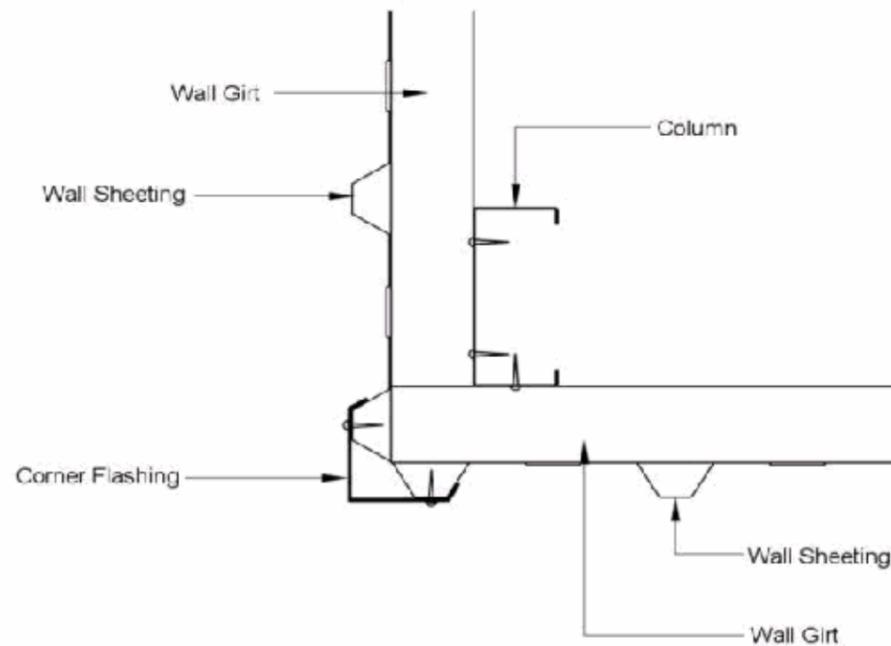
XF 30



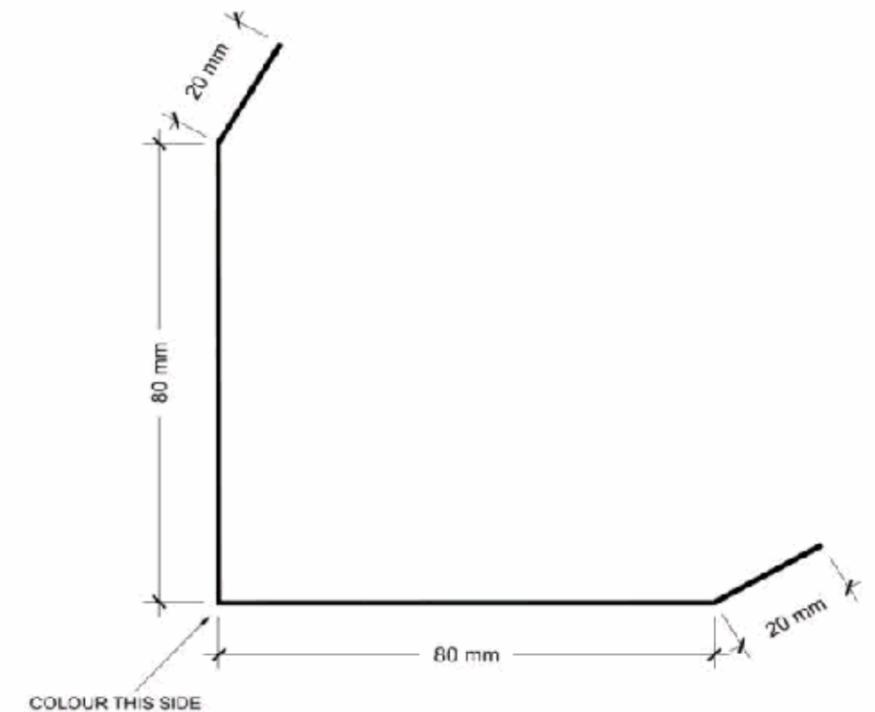
PA Door Header Flashing - XF 24



XF 24



Corner Flashing - XF 21



XF 21

Purchaser Name: Jado Homes

Site Address: 55 Chain o ponds Road MULGOA NSW Australia 2745

Drawing # Job SSWZ130054 - 9

Print Date: 16/07/13

## Flashing Fixing Details

Page 1 of 2

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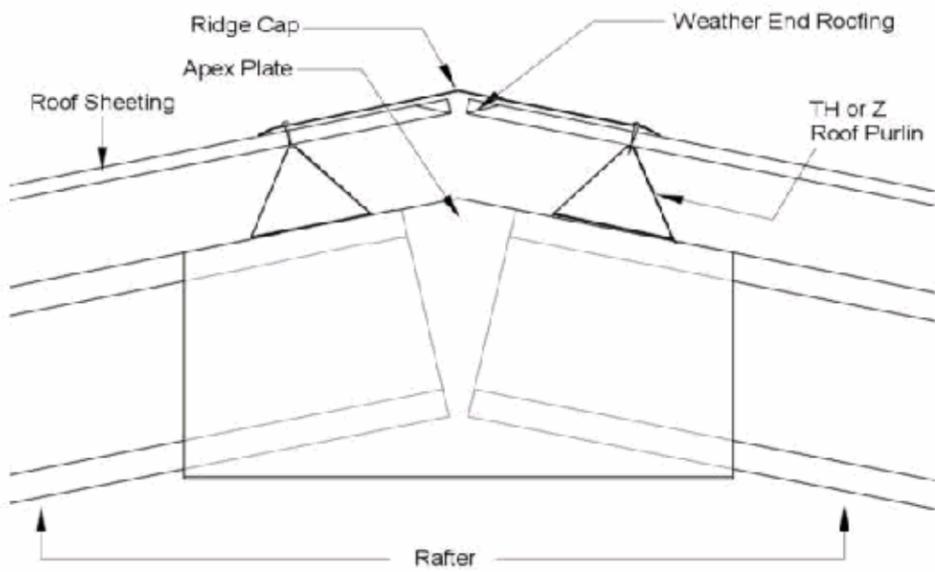
Q.L.D. - RPEQ No 1547; VIC - EC24162; TAS - CC4600II; N.T. - 46926TS;

**Practising Professional Structural & Civil Engineer**

Signature:

R.J. Showers

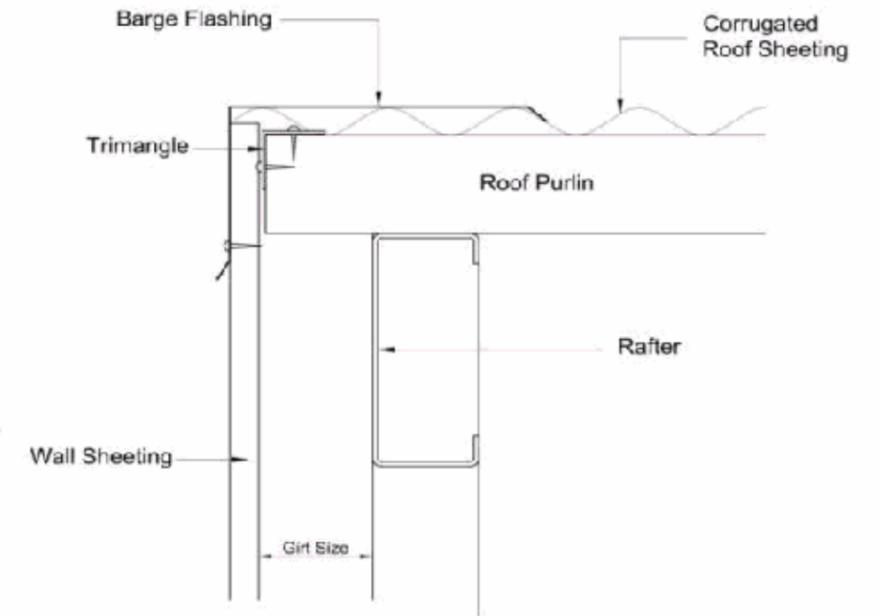
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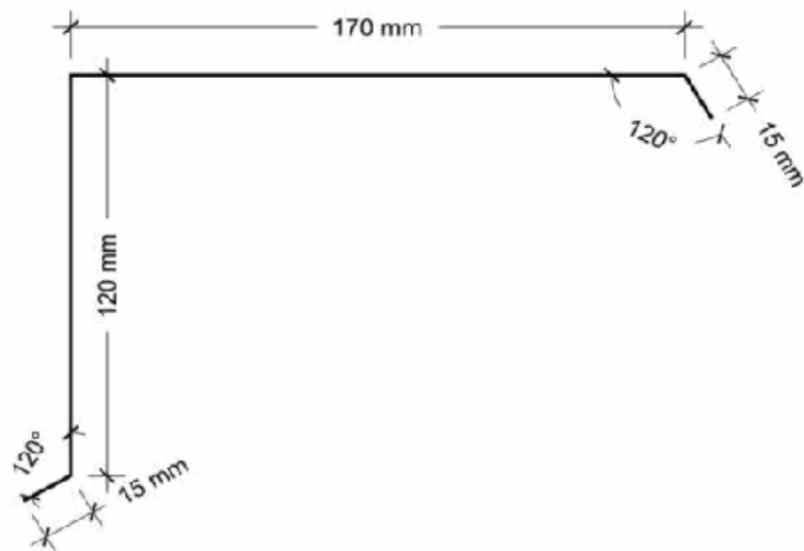
Ridge Cap - XF 83



XF 83



Barge Flashing XF10 - Connection



XF 10

Purchaser Name: Jado Homes

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Drawing # Job SSWZ130054 - 9

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## Flashing Fixing Details

Page 2 of 2

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**Practising Professional Structural & Civil Engineer**

Signature:

R.J. Showers

Date: 16/07/13