

District Plan Zoning: General Coastal	
Wind Zone as per AS/NZS 1170.2	= 40.95 m/s
Site Area	= 1200m ²
Existing Driveways	= 15 m ²
Proposed Building	= 73.71 m ²
Total Site Coverage	= 88.71 m ²
Impermeable Surfaces (%)	= 7.5 %
Building Use	= Storage
Earthworks =	
200mm site scrape of top soil only of less than 20 cubic Metres. All soil to remain on site	
Stormwater =	
To be collected through 80mm dia PVC DPs and led to tank as shown with 1:100 fall via storm water pipe to comply with E1.	



LOT 7 DP 525890

Inset Proposed LOT 8 DP 409674



NOTE: Plan stamped by
Gumboot Engineers for storm
water details

-  = Proposed Building
-  = Boundary distance indicators
-  = Boundary line indicators



Dekka Int Trading Ltd T/A Totalspan
Bay of Islands/Hokianga

1235B State Highway 10, RD3,
Kerikeri 0293 New Zealand.
Phone: 09 4077875
E: Kirsty.fisher@totalspan.co.nz

Building Proposed For:
Michelle French

Customer Site Address:
Waianga Place, Omapere

LOT 7 DP 525890

Date: 4.5.2020

NOT TO SCALE

ALL DIMENSIONS IN METRES
UNLESS STATED:

Copyright: These drawings must
not be reproduced without express
permission of Totalspan
BOI/Hokianga Ltd

CITED

By: Akira Kepu

On Behalf of Gumboots
Consulting Engineers Ltd

Date: 10/08/2020
Subject to attached notes.



North

KEY:

- Property Boundaries
- Existing Stormwater
- Existing Wastewater
- Existing Watermain
- Existing Concrete ROW
- New Concrete Pavement
- ROW Widening
- New Public Stormwater Main
- New Public Wastewater Main
- New Public Watermain
- New Wastewater Lateral
- New Stormwater Lateral

WATER TANK 10000L

NOTES:

- All works to be in accordance with Far North District Council Code of Practice.
- All uPVC pipe to be SN16 and bedded on GAP7 or approved equivalent.
- Contractor shall locate, identify and protect all existing services prior to commencement of any work.
- Contractor to install appropriate sediment control measures prior to commencement of any work and maintain for duration of works.
- All Lot WW laterals to be 100Ø uPVC.
- All Lot SW laterals to be 100Ø uPVC.
- Passing bays to comply with Rule 15.1.6C.1.3 of Far North District Plan
- New Lot accesses to be formed and concreted in accordance with Council Standard FNDC/S/6 and 6B. Construction methodology to be as per FNDC/S/2.

0 5 10 15 20 25
Scale 1:500 (m) Original Size = A3

Copyright: LDE Ltd. All rights reserved / Do not scale off drawings / Confirm all dimensions on site prior to work

CLIENT

Dan Cleary

PROJECT

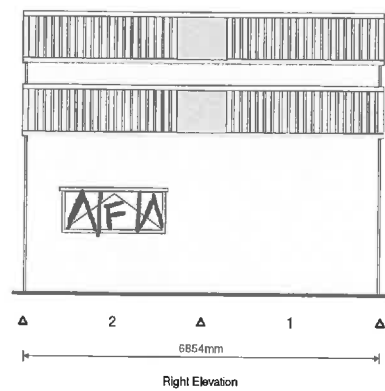
7 Lot Residential Subdivision
LOT 7 DP 525890
Waianga Place

DRAWING TITLE

Site Plan
ROW 2



DESIGN:	SD	PROJECT STATUS:	Engineering Approval
DRAWN:	SD	PROJECT:	17225
DATE:	20.02.20	SHEET:	4 of 8
CHECKED:	HD	DRAWING NO:	17225
ISSUED FOR ENGINEERING APPROVAL	SD	SCALE A3:	1:500
REVISION	BY	DATE	REV
0		20.02.20	0



PRODUCER STATEMENT – PS1 – DESIGN

(Guidance on use of Producer Statements (formerly page 2) is available at www.engineeringnz.org)

ISSUED BY:Calibre Consulting Ltd.....
(Design Firm)

TO:Totalspan Bay of Islands/Hokianga.....
(Owner/Developer)

TO BE SUPPLIED TO:Far North District Council.....
(Building Consent Authority)

IN RESPECT OF:Foundation only to IL1, 50 year design life.....
(Description of Building Work)

AT:20 Waianga Place, Omapere 0473.....
(Address)

Town/City:Omapere LOT DP SO
(Address)

We have been engaged by the owner/developer referred to above to provide: ...Structural Engineering.....
..... services in respect of the requirements of
(Extent of Engagement)

Clause(s) B1 of the Building Code for:

☒ All or ☐ Part only (as specified in the attachment to this statement), of the proposed building work.

The design carried out by us has been prepared in accordance with:

☒ Compliance Documents issued by the Ministry of Business, Innovation & Employment ... B1/VM1 & B1/VM4 or
(verification method/acceptable solution)

☒ Alternative solution as per the attached schedule ...AS 2870.....

The proposed building work covered by this producer statement is described on the drawings titled:

Project #: 711747-12 and numbered SK01, SK02, Rev 0;

together with the specification, and other documents set out in the schedule attached to this statement.

On behalf of the Design Firm, and subject to:

(i) Site verification of the following design assumptions refer Geotech report by Gumboots Consulting Engineers, ref# 1057 dated 02 June 2020.

(ii) All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b), the persons who have undertaken the design have the necessary competency to do so. ~~I also recommend the following level of construction monitoring/observation:-~~

☐ CM1 ☐ CM2 ☐ CM3 ☐ CM4 ☐ CM5 (Engineering Categories) or ☐ as per agreement with owner/developer (Architectural)

I,John McCurran..... am: ☒ CPEng 48451 # ☐ Reg Arch #
(Name of Design Professional)

I am a member of: ☒ Engineering New Zealand ☐ NZIA and hold the following qualifications: ...BE (civil).....

The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000*. The

Design Firm is a member of ACENZ: ☒

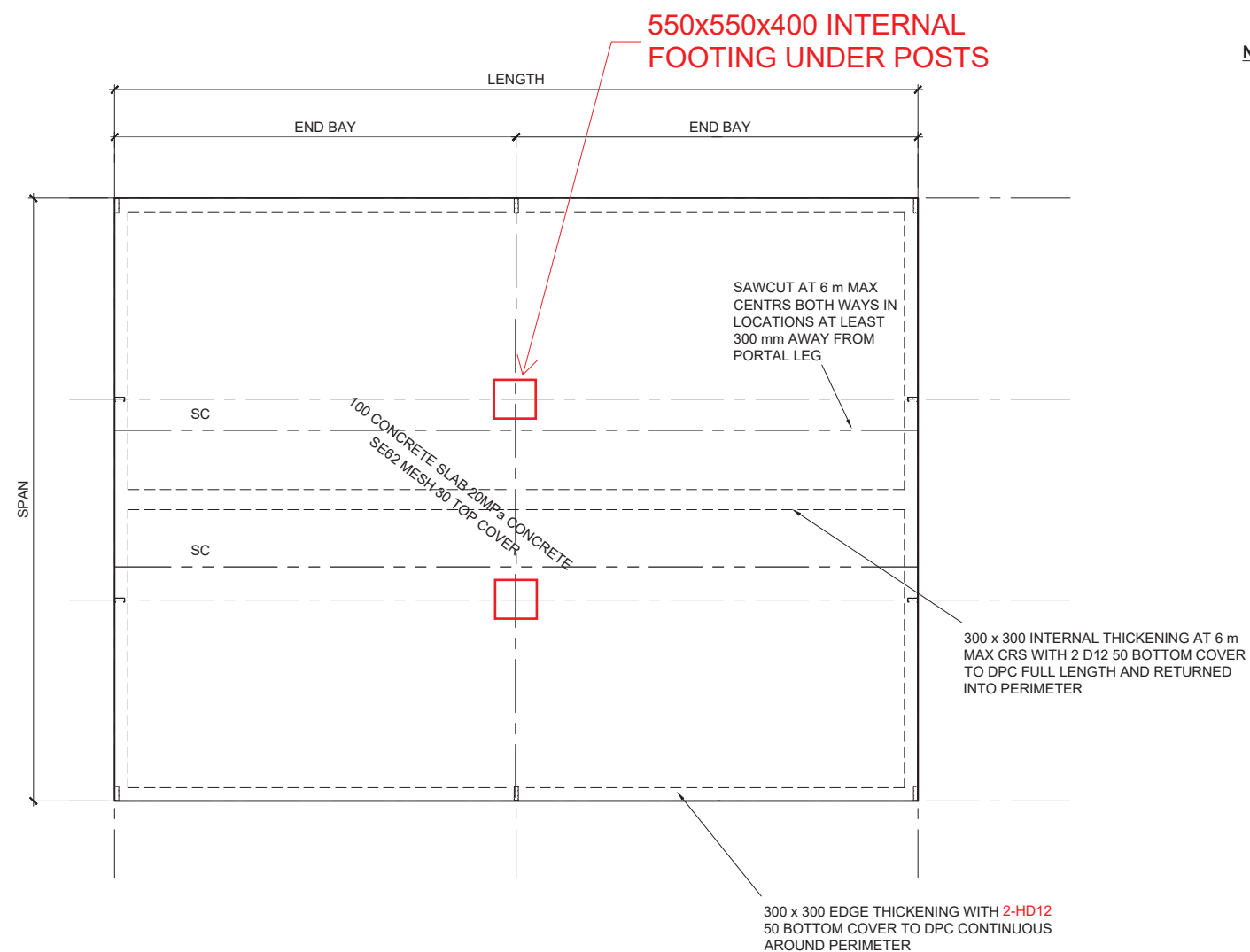
SIGNED BY John McCurran (Signature)
(Name of Design Professional)

ON BEHALF OFCalibre Consulting Ltd..... Date 17 June 2020...
(Design Firm)

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000.*

This form is to accompany **Form 2 of the Building (Forms) Regulations 2004** for the application of a Building Consent.

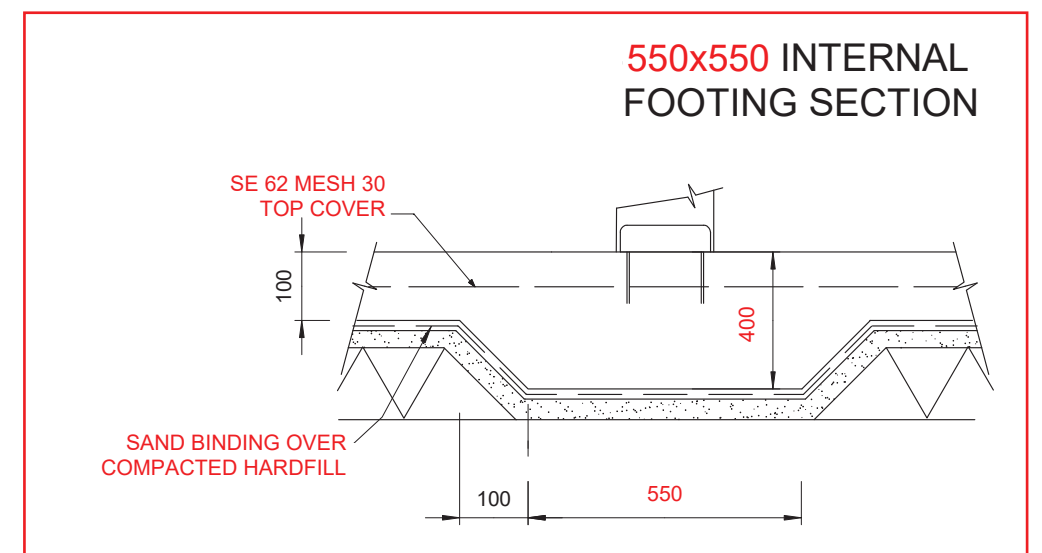
THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, ENGINEERING NEW ZEALAND AND NZIA



TYPICAL CONCRETE SLAB PLAN
NTS

NOTES:

1. REFER TO TABLE FOR SLAB PLAN LAYOUT, BAY NUMBERS AND DIMENSIONS,
2. FOR IL1 BUILDINGS ONLY
3. FOR EXPANSIVE SOIL **CLASS H1** ONLY AS DEFINED IN AS 2870:2011
4. REFER TO AS 2870:2011 CL 3.1.5 FOR SITE CLASS REDUCTION,
5. REFER TO AS 2870:2011 FIGURE 3.1 FOR STANDARD DESIGN (CLAD FRAME, CLASS M)



PROJECT #: 711747-12
REVISION: 0
DATE: 17/06/2020



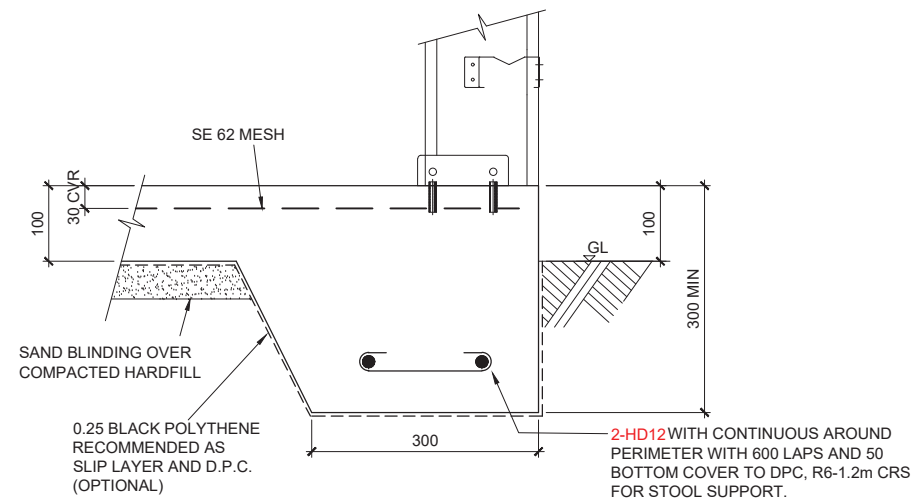
TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O. Box 11-105, Christchurch

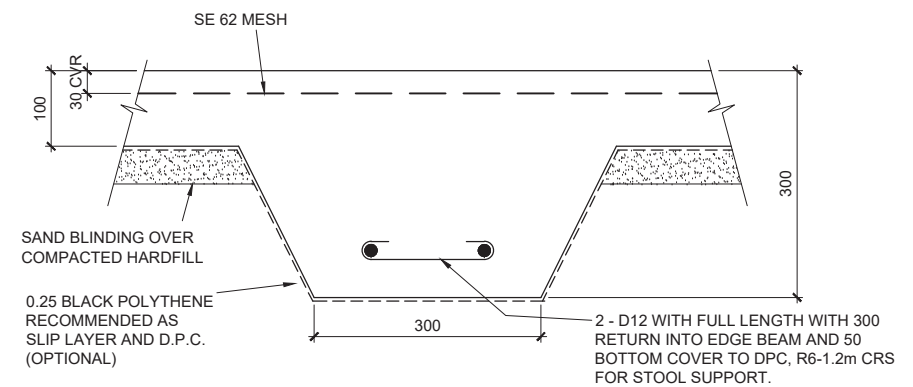
For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

PORTAL BUILDING
FOUNDATION PLAN

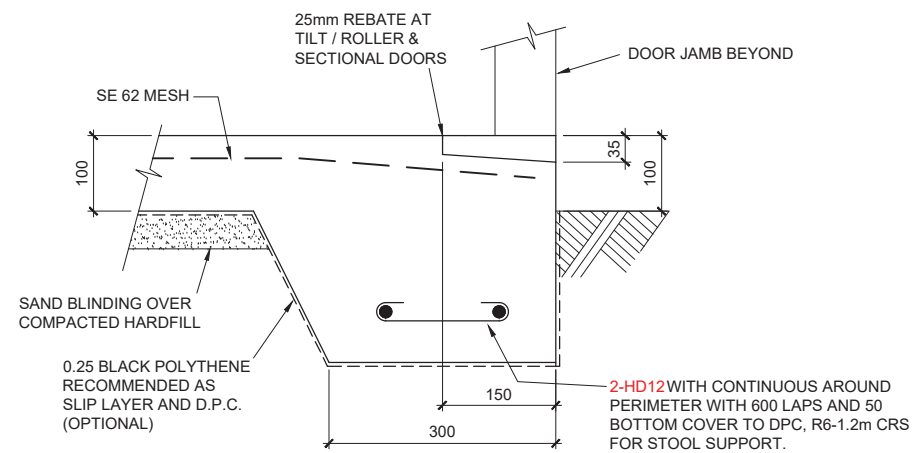
SK01



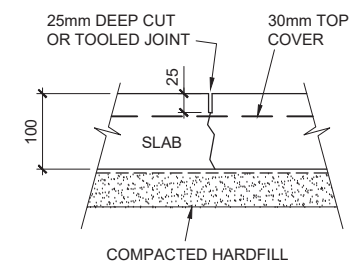
FOUNDATION EDGE BEAM
(TYP.)



FOUNDATION INTERNAL BEAM
(TYP.)



DOOR ENTRY SLAB EDGE DETAIL (TYP.)



SAWCUT DETAIL (TYP.)



PROJECT #: 711747-12
REVISION: 0
DATE: 17/06/2020



TOTALSPAN
A Division of Spanbild New Zealand Ltd
112 Waterloo Road, Hornby,
P.O. Box 11-105, Christchurch

For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

PORTAL BUILDING
FOUNDATION DETAILS
SK02



STANDARD DESIGN

Spanbild New Zealand Limited

**Steel Framed Enclosed Building
Heritage Barn**

(Unlined, IL1, Non-habitable, Enclosed)

Producer Statement and Structural Details

Client:

Michelle French
20 Waianga Place
Omapere
0473
New Zealand

Building:

Length: 6854mm
Width: 10754mm
Stud Height: 3000mm
Bay Number: 2
Bay Size: 3395mm
Wind Zone: IL = 1, DL = 50yrs, Sg = 0.0kPa, Vdes,Θ = 40.95 m/s
Floor Type: Concrete Slab
Floor Area: 73.71 m2
Site Co-Ordinates: -35.527838, 173.393102

NOTES

CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE AT TIME OF CONSTRUCTION

COPYRIGHT: These drawings must not be reproduced without express permission from
Spanbild New Zealand Limited.

INDEX

- 1 - Cover Page (this page)
- 2 - Producer Statement
- 3 - Manufactures Durability Statement
- 4 - Specification - Properties
- 5 - Specification - Design
- 6 - Site Plan
- 7 - Foundations
- 8 - Wall Sections
- 9 - Wall Sections
- 10 - Wall Bracing
- 11 - Roof Sections & Bracing
- 12 - Connection Details
- 13 - Connection Details
- 14 - Connection Details
- 15 - Floor Connection Details
- 16 - Floor Connection Details
- 17 - Flashing Details
- 18 - Flashing Details
- 19 - Flashing Details
- 20 - Flashing Details

PRODUCER STATEMENT – PS1 – DESIGN

(Guidance on use of Producer Statements (formerly page 2) is available at www.engineeringnz.org)

ISSUED BY:Calibre Consulting Ltd.....
(Design Firm)

TO:Totalspan Bay of Islands/Hokianga.....
(Owner/Developer)

TO BE SUPPLIED TO:Far North District Council.....
(Building Consent Authority)

IN RESPECT OF:11m x 7m Heritage Barn Building to IL1, 50 year design life.....
(Description of Building Work)

AT:20 Waianga Place, Omapere 0473.....
(Address)

Town/City:Omapere..... LOT..... DP..... SO.....
(Address)

We have been engaged by the owner/developer referred to above to provide: ...Structural Engineering.....
..... services in respect of the requirements of
(Extent of Engagement)

Clause(s) B1 of the Building Code for:

☒ All or ☐ Part only (as specified in the attachment to this statement), of the proposed building work.

The design carried out by us has been prepared in accordance with:

☒ Compliance Documents issued by the Ministry of Business, Innovation & Employment ... B1/VM1 & B1/VM4 or
(verification method/acceptable solution)
☐ Alternative solution as per the attached schedule

The proposed building work covered by this producer statement is described on the drawings titled:

Project #: 1841383 and numbered Page 1, 5, 7 to 16, Rev 0;

together with the specification, and other documents set out in the schedule attached to this statement.

On behalf of the Design Firm, and subject to:

- (i) Site verification of the following design assumptions Good ground as defined by NZS3604, except with a min UBC of 225kPa.
- (ii) All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b), the persons who have undertaken the design have the necessary competency to do so. ~~I also recommend the following level of construction monitoring/observation:-~~

☐ CM1 ☐ CM2 ☐ CM3 ☐ CM4 ☐ CM5 (Engineering Categories) or ☐ as per agreement with owner/developer (Architectural)

I,John McCurran..... am: ☒ CPEng 48451 # ☐ Reg Arch #
(Name of Design Professional)

I am a member of: ☒ Engineering New Zealand ☐ NZIA and hold the following qualifications: ...BE (civil).....
The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000*. The Design Firm is a member of ACENZ: ☒

SIGNED BY John McCurran (Signature)
(Name of Design Professional)

ON BEHALF OFCalibre Consulting Ltd..... Date 23 March 2020...
(Design Firm)

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000.*

This form is to accompany **Form 2 of the Building (Forms) Regulations 2004** for the application of a Building Consent.

THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, ENGINEERING NEW ZEALAND AND NZIA

MANUFACTURERS STATEMENT - DURABILITY

Cladding

To satisfy the requirements of Clause B2:”Durability” of the NZBC and to ensure the cladding material meets a **15-year durability** life and a 50 year intended working life (design life), the following provisions must apply:

Cladding Range of Product and Use

- Coating Type: Zinc/Aluminium & Painted (Coloured Steel).
- Steel thickness range: 0.35mm - 0.55mm BMT
- Steel grade range: G300 - G550
- Application: Standard Totalspan Roof and Wall Cladding
- Profile: Totalspan 7 Rib, Totalspan 6 Rib, Totalspan Corrugate

Requirements, Limitations and Exclusions

- Fixing and installation of the cladding must be done exactly in accordance with Totalspan Buildings instructions and specifications.
- Normal and regular maintenance must be carried out on the exterior surface of the cladding and the following guide must be followed to ensure the durability requirements are met.

Regular Maintenance

- **Normal Maintenance to be completed in accordance with Durability - Acceptable Solution B2/AS 2.1.3**
- **Corrosion Zones B and C.. (*Reference NZS 3604:2011 Corrosion Zone Figure 4.2)**
Rain-washing only required on **exposed** (*open to airborne salts and rain wetting*) material. **Sheltered** (*open to airborne salts, but not rain washed*) or protected areas such as under spouting, top-cladding sheets and tops of doors require washing every 3 months.
- **Sea Spray Zone D (Includes all off-shore islands, the area within 500m of the coastline of New Zealand, and those areas shown in white - *Reference NZS 3604:2011 Figure 4.2) and areas of Geothermal Activity (*Reference NZS 3604:2011 4.2.4 (c)).**
Rain-washing only required on **exposed** (*open to airborne salts and rain wetting*) areas. **Sheltered** (*open to airborne salts, but not rain washed*) and protected areas such as under spouting, top cladding and tops of doors require washing down every month and whenever corrosive salts are present.

Extended Maintenance, Painting or Repainting

Extended Durability

Once the metallic coating or the paint system has weathered away, signs of red rust for bare material or signs of the metallic coating for painted material, painting of the entire surface is required to extend the life of the cladding product. Paint manufacturers recommendations are to be followed for surface preparation and paint type to be used.

Evident Corrosion

- Areas that show signs of white or red rust/corrosion (typically in unwashed areas) require cleaning back with a stiff brush and cleaner to remove all dust, surface contaminants and corrosion products and present a sound substrate for painting. Priming of the surface and application of two coats of paint as per the Paint Manufacturer’s recommendations is then required.
Particular attention needs to be paid to laps (side, end, flashing etc) where earlier corrosion may start due to moisture and dirt entrapment.
- If evident corrosion is not treated quickly rapid deterioration of the sheet may occur which could result in perforation. At this stage replacement of the affected sheet is the best option.

Steel Framing

To satisfy the requirements of Clause B2:”Durability” of the NZBC and to ensure the structural framing material meets a **50-year durability** life the following provisions must apply:

Steel Framing Range of Product and Use

- Coating Type: Galvanised
- Steel thickness range: 0.75mm – 2.4mm BMT
- Steel grade range: G450 – G550
- Application: Standard Totalspan Purlins, Girts, Portal Frames, Door Jambs, Wall Uprights, Bridging
- Profile: C Sections – 80x40, 150x64, 220x64, 250x85
Z Sections – 100x53, 150x65
Tophat Sections – 100x163, 120x170, 150x183

Awnings/Garaports attached to Base Buildings

- Where sections are exposed to or located in salt marine, corrosive industrial or unusually high corrosive environments **the below Regular Maintenance must be adhered to**. Please contact the manufacturer for specialist advice if unsure of requirements.
This also applies to all Steelwork that is exposed to the wind but is protected from the rain located in an open sided structure such as carports, awnings or structures closed in on one side only.
Maintenance is necessary when the Galvanised coating ceases to provide sacrificial protection to the steel base, or where the appearance is no longer aesthetically acceptable. Rust staining or the growth of rust spots usually indicates the breakdown of Galvanised coating. At the first sign of breakdown, the surface should be treated with an appropriate maintenance coating system. All maintenance should be carried out in accordance with AS/NZS 2312:2002 (Incorporating Amendment No. 1) [c] and *New Zealand Steelwork Corrosion Coatings Guide* (HERA Report R4-133) [d].

Regular inspections of the steel work and maintenance at the first signs of a problem will extend the durability of the sections. If any of the structure components show signs of corrosion during normal maintenance these are also easily accessible and simple to replace.

Regular Maintenance

- **Normal Maintenance to be completed in accordance with Durability - Acceptable Solution B2/AS 2.1.3 Corrosion Zones B and C. (*Reference NZS 3604:2011 Corrosion Zone Figure 4.2)**
Rain-washing only required on **exposed** (*open to airborne salts and rain wetting*) material. **Sheltered** (*open to airborne salts, but not rain washed*) or protected areas such as under spouting, top-cladding sheets and tops of doors require washing every 3 months.
- **Sea Spray Zone D (Includes all off-shore islands, the area within 500m of the coastline of New Zealand, and those areas shown in white - *Reference NZS 3604:2011 Figure 4.2) and areas of Geothermal Activity (*Reference NZS 3604:2011 4.2.4 (c)).**
Rain-washing only required on **exposed** (*open to airborne salts and rain wetting*) areas. **Sheltered** (*open to airborne salts, but not rain washed*) and protected areas such as under spouting, top cladding and tops of doors require washing down every month and whenever corrosive salts are present.

References

1. NZBC – Compliance Document – Clause B2 - Durability
 2. NZS 3604, Clause 4, Durability*
- * - Totalspan Buildings acknowledges and understands that NZS 3604 is a Timber Framed Building standard. Totalspan Buildings has used NZS 3604 as a reference only to identify Corrosion Zones, Sea Spray Zones and areas of Geothermal activity.

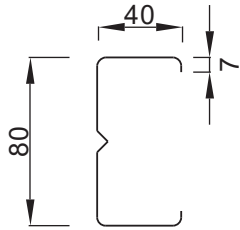
Totalspan Buildings
112 Waterloo Rd
Sockburn
CHRISTCHURCH

HERITAGE BARN SPECIFICATIONS

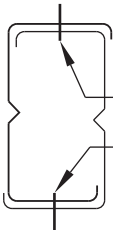
FNDC - Approved Building Consent Document - EBC-2020-12022-0 - Pg 10 of 27 - 17/08/2020 - OG

C SECTION ABBREVIATION KEY	
C8095	Single 80x40 0.95mm
C8095(1)	Single 80x40 0.95mm with 1 Row of C80-95 Bridging
B8095	Boxed 80x40 0.95mm
B8095(1)	Boxed 80x40 0.95mm with 1 Row of C80-95 Bridging
C15010	Single 150x64 0.95mm
C15012	Single 150x64 1.15mm
C15015	Single 150x64 1.45mm
B15010	Boxed 150x64 0.95mm
B15012	Boxed 150x64 1.15mm
B15015	Boxed 150x64 1.45mm

C80 Section Properties



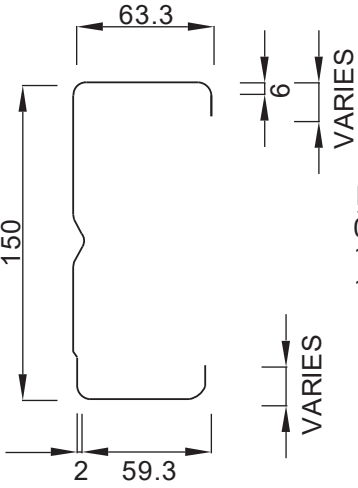
typical crimped lipped single channel section (ex 0.95 b.m.t) (C80-95)



80x40 crimped 'C' section boxed (B80-95)

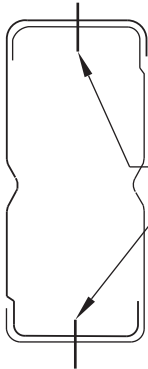
#10 TekScrews at 400 centres

C150 Section Properties



Single C150 section (C150)

BMT
0.95
1.15
1.45

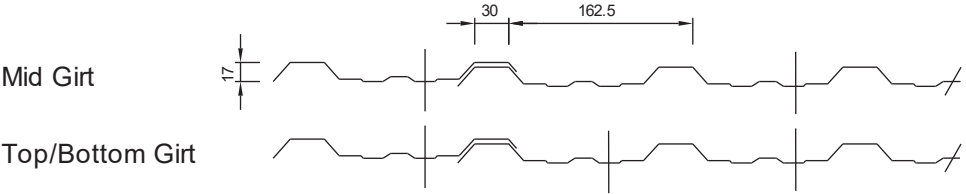


Boxed C150 section (B150)

#10 TekScrews at 400 centres

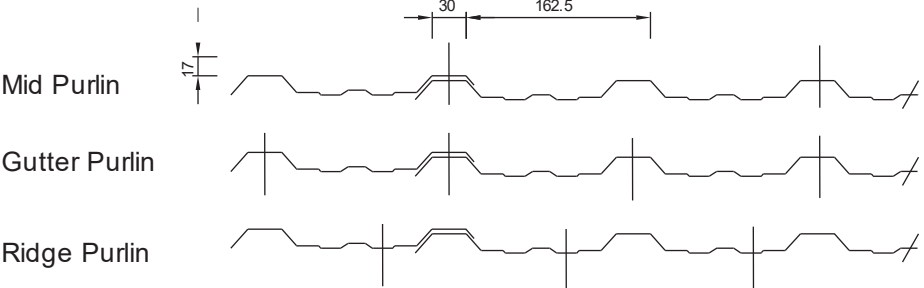
Sheet Properties

7 Rib Wall Sheeting



This shows the cladding tek fixing positions for 7rib cladding for wall cladding only Tek every pan at the top and bottom of the wall sheets, for the mid girts place the teks in the above pattern (every second pan)

7 Rib Roof Sheeting



This shows the cladding tek fixing positions for 7rib roof cladding Tek every rib at the gutter end of the roof, for the mid purlins place the teks in the above pattern (every second rib) The ridge purlin uses #10x16 teks in every pan.

HERITAGE BARN SPECIFICATIONS

GENERAL

- 1 - All work shall conform to the New Zealand Building Code.
- 2 - Check diagonals to ensure building is square.

LOADINGS

- 1 - Buildings are designed to AS/NZS 1170 for site specific wind speed V_{des} theta = 40.95 m/s
Roof live load of 0.25kPa. **Snow load = 0.0kPa**
- 2 - 0.9kN point load for non-trafficable roofs. For maintenance access use timber planks placed over two adjacent purlins.
- 3 - All awnings are designed as empty under.

FOUNDATIONS

- 1 - Foundation subgrade to be good ground as defined by NZS3604:2011, except having a minimum ultimate bearing capacity of 225kPa.
- 2 - Screwbolts to be:
M10 x 75 Excalibur HSB (Galv.)
M12 x 150 Excalibur HSB (Galv.)

CONCRETE SLAB

- 1 - Strip the site, removing vegetation, turf, soils containing organic matter and any loose or soft material, trim to a firm subgrade. Backfill as required with compacted granular material as defined by NZS3604:2011 and lay a blinding of sand to underside of concrete slab and edge thickenings. Ensure the surface of the slab will be at least 100mm above the highest level of cleared ground around the slab.
- 2 - Concrete shall have a maximum aggregate size of 20mm, slump of 80mm maximum and a 20MPa compression strength at 28 days for sites located in Zone B or C, and a 25MPa compression strength at 28 days for sites located in Zone D.



PROJECT #: 1841383
REVISION: 0
DATE: 23/3/2020

STEELWORK

- 1 - All structural framing members shall be: G550 - 0.95mm BMT, G500 - 1.15mm BMT, G450 - 1.14mm BMT, G450 - 1.85mm BMT grade steel galvanised to Z275 (G550 for 80 x 40 boxed and single channels). Cleats to be G450, Z275.
- 2 - Purlins and girts shall be 80 x 40 x (0.75 or 0.95) BMT lipped, crimped channel located at centres shown on the drawings, **refer to specification tables below.**
- 3 - Boxed members to be flange fixed with #10 Tek screws at 400 centres.
- 4 - Screws to be #10 x 16 Tek screws Class 3 zinc plated, fixed at a minimum edge distance of 10mm and to a 15mm minimum pitch.
- 5 - Girts to be connected with 2 #10 Tek screws per tab with two tabs each end.
- 6 - Steelwork shall conform to:
AS/NZS 4600 Cold Formed Steel Structures Code
AS 1397:2001
AS 1562 Design and Installation of Metal Roofing
AS 1111/1112 Hex Commercial Bolts and Screws!!

CLADDING

- 1 - AS 3566 Self Drilling Screws for fixing the Buildings wall and roof sheeting.
- 2 - Wall and Roof Sheeting shall be G550 grade steel zincalumed to Z275 and rolled to profile as either 7 rib 0.35 BMT or 6 rib 0.40 BMT or corrugate 0.40 BMT
- 3 - Roof sheets shall be fixed to ridge and eaves purlins with a Tek screw at every rib and at non-ridge and non-eave purlin locations to alternative ribs. Roof Tek screws shall be complete with neoprene washers tightened firmly but not to form depressions in the roof cladding. Ensure all roof fixings are waterproof.
- 4 - Ridges, gables and all penetrations to be flashed with similar sheet steel.
- 5 - Guttering to be fixed with Tek screws and joint sealed with silicone. Fit downpipes to guttering to discharge to an approved stormwater drainage system.
- 6 - Frame for personnel door and windows with single or boxed 80 x 40 x (0.75 or 0.95) BMT lipped channels. Tab connect members with 2 screws to each tab, fix jambs to floor with 40x40x75 angle cleat having 1/M10 screwbolt to concrete and 6 Tek screws to jamb.

NOTE: Site is located in Sea Spray Zone D.

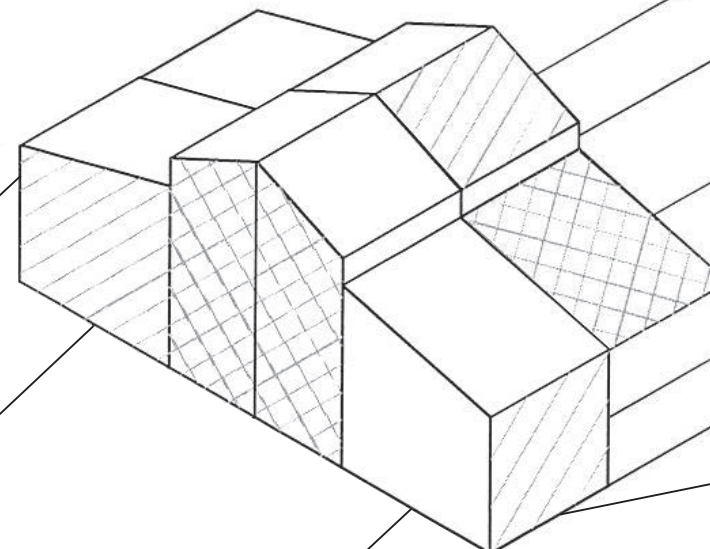
END WALL RANCH SLIDER DOOR JAMB B8075 ON EDGE

Building Tables	
Wind Region	Region A6 - A7
Terrain Category	2
Earthquake Zone	C(T) <= 0.45 ("Zone 2")
Importance Level	IL1
Bay Size	3395mm
Live Roof Load	0.25 kPa

End Portal Frames	
C15015	Main Leg with Tee Stiffener Main Rafter Skillion Leg Skillion Rafter Centre Upright, Over Maindoor
C15015	Centre Upright, Floor to Apex
B15010	Maindoor Jamb Maindoor Head Beam

End Wall Skillion Girts	
4	Girt Rows
B8075 (0)	Girt Section

End Wall Main Girts	
5	Girt Rows
B8075 (0)	Girt Section



Main Roof Purlins	
4	Purlin Rows
B8075 (0)	Purlin Section

Side Wall Upper Girts	
B8075 (0)	Girt Section

Skillion Roof Purlins	
5	Purlin Rows
B8075 (0)	Purlin Section

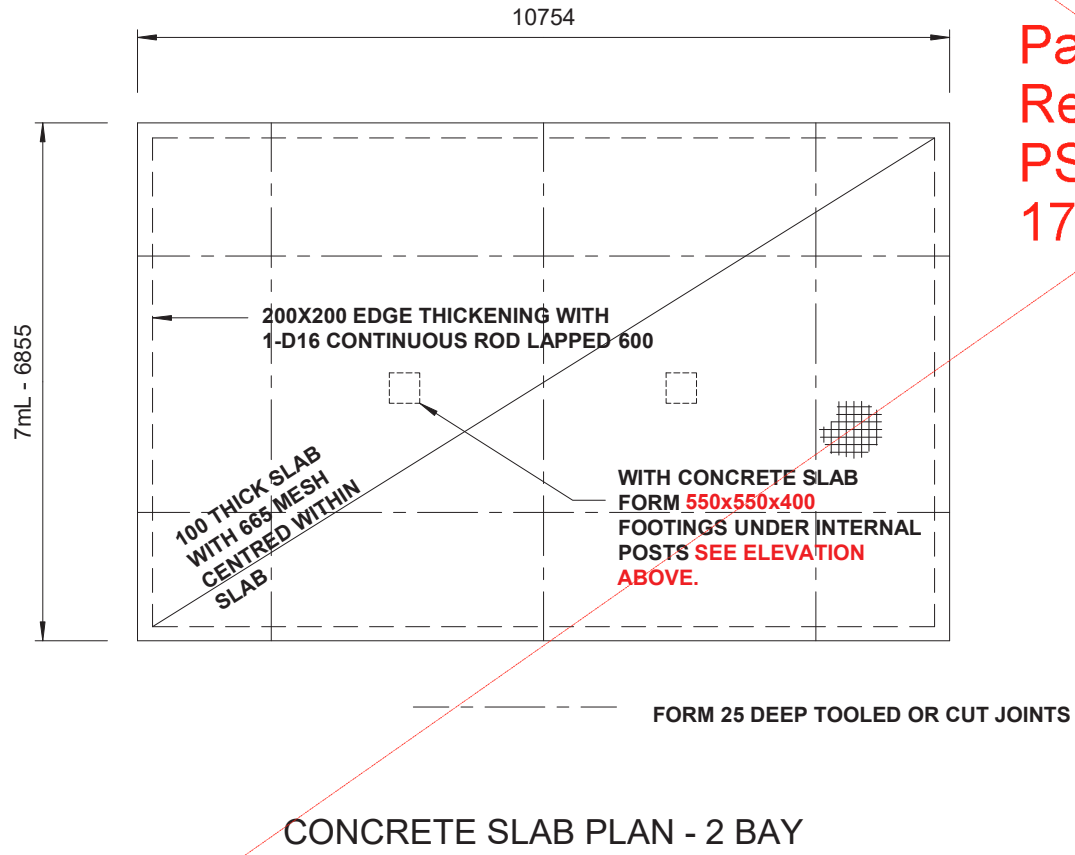
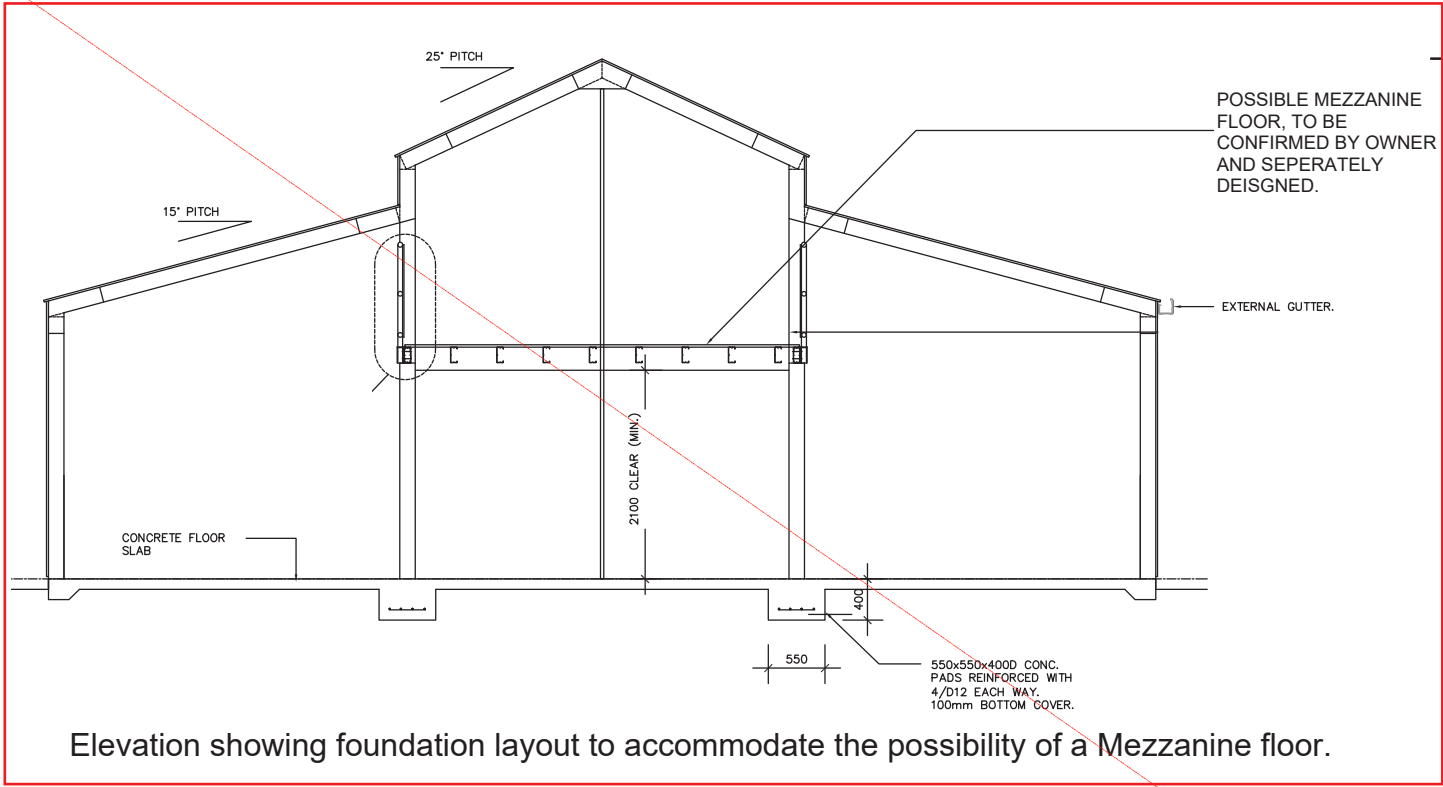
Inner Portal Frames	
B15015	Main Leg Main Rafter Skillion Leg Skillion Rafter

Side Wall Main Girts	
6	Girt Rows
B8075 (0)	Girt Section

Bridging Legend	
(0) =	No Bridging
(1) =	One Row of Bridging

Site Plan Place Holder

DIMENSIONS IN mm UNLESS OTHERWISE STATED THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS

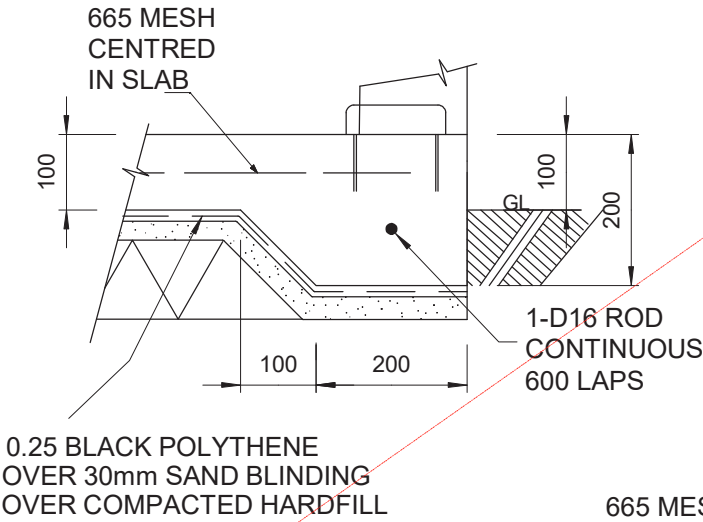


Page 7 foundation details N/A.
Revised Foundation details and
PS1 provided. See PS1 dated
17th June 2020.

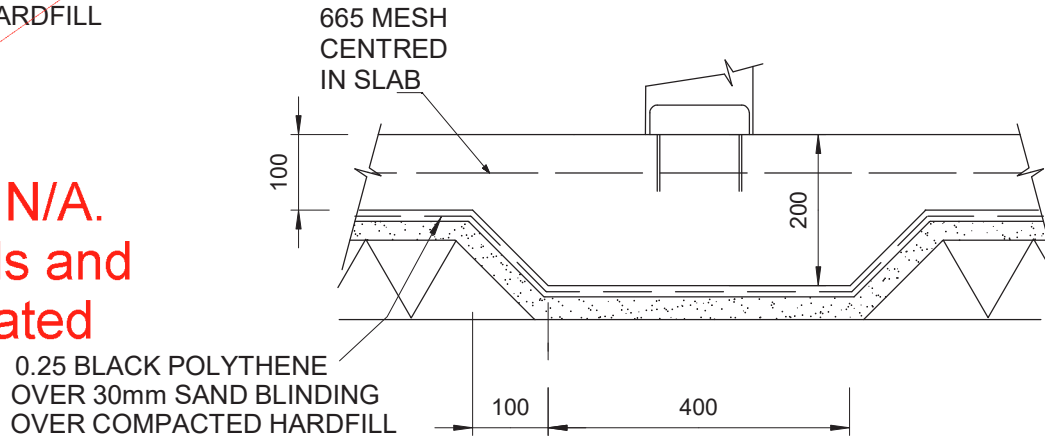
Concrete Slab Details

Scale 1:10

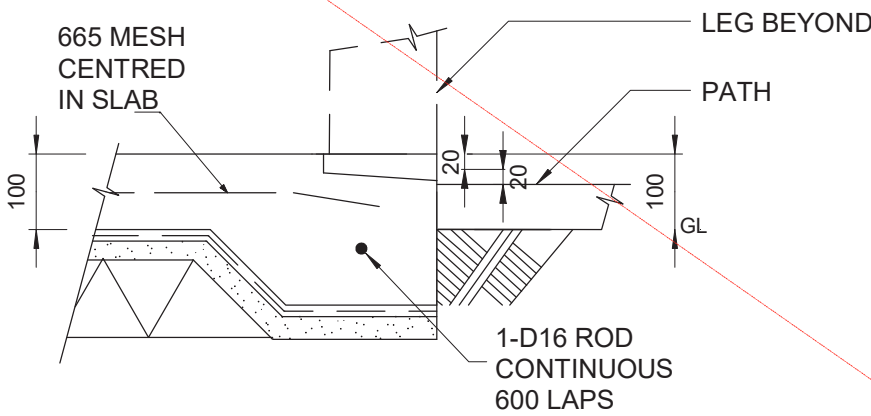
FOUNDATION SECTION



400x400 INTERNAL FOOTING SECTION



TYPICAL DOOR ENRTY SLAB



 PROJECT #: 1841383
REVISION: 0
DATE: 23/3/2020



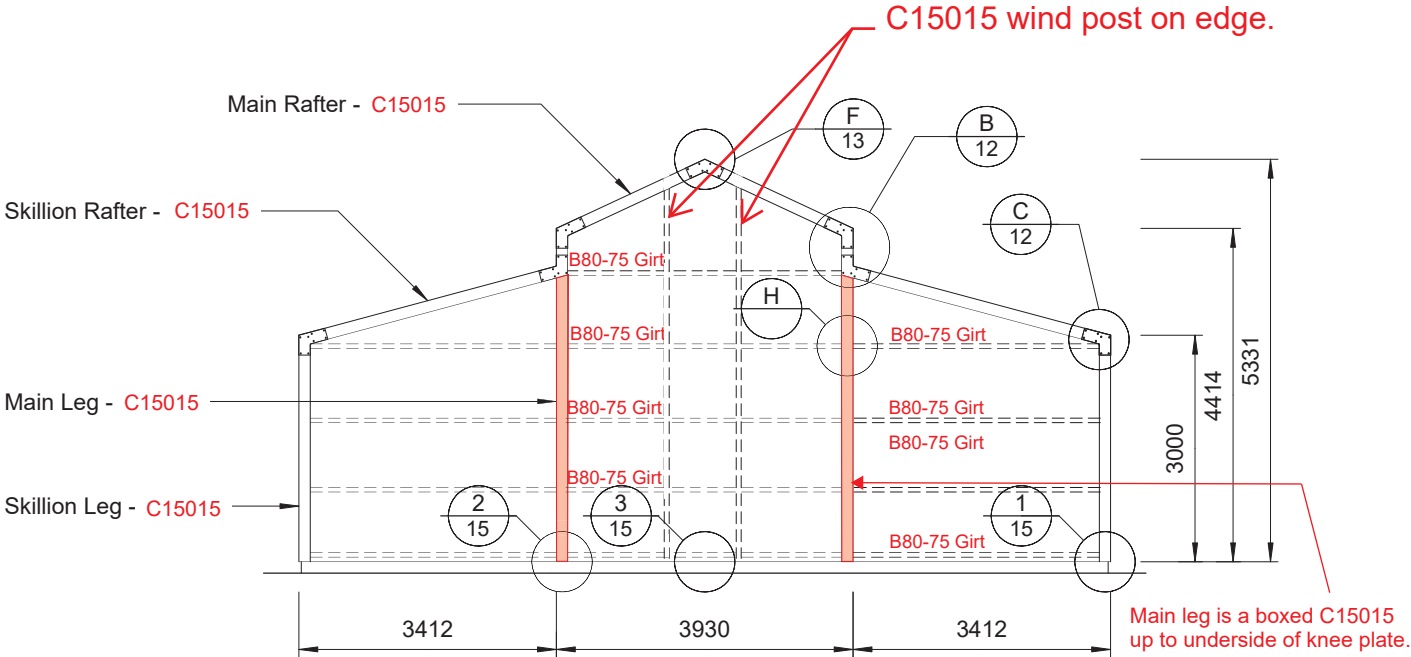
TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

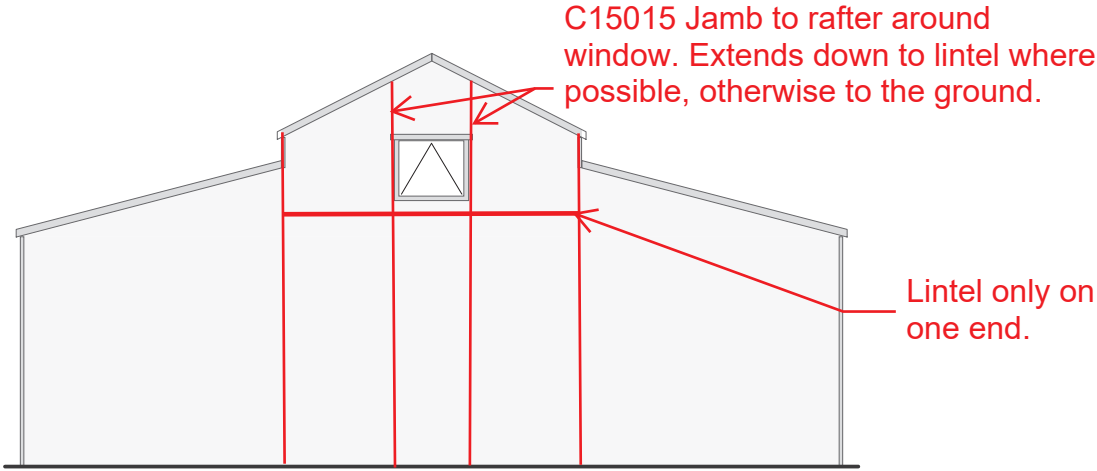
For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

Heritage Barn	
Foundations	
Scale:	A3 1:100

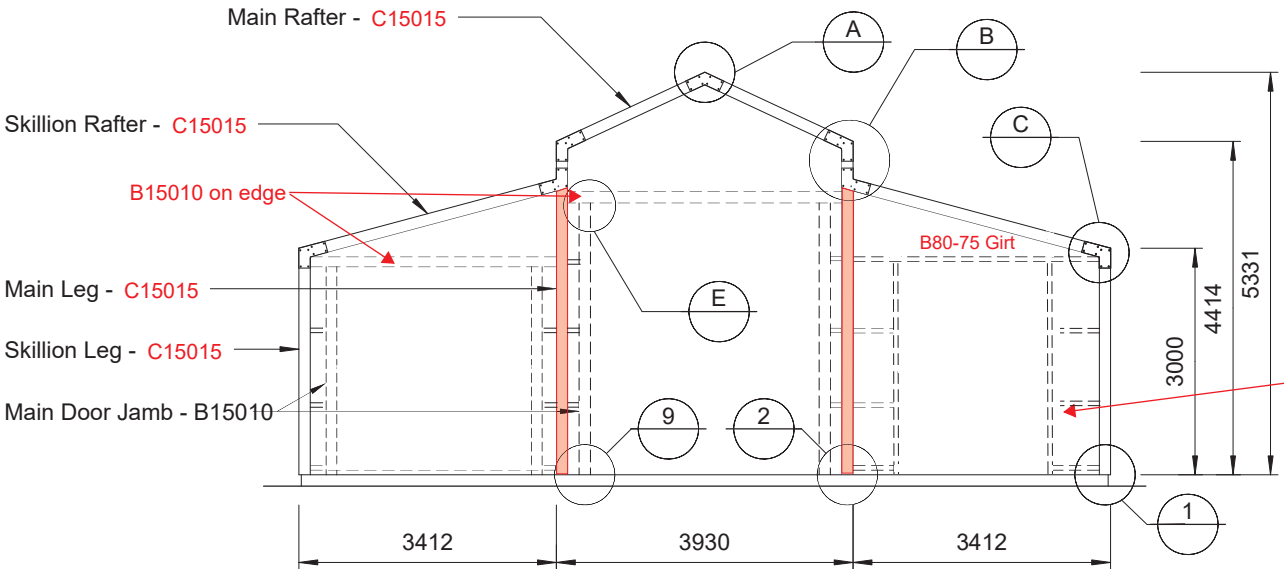
DIMENSIONS IN mm UNLESS OTHERWISE STATED THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS



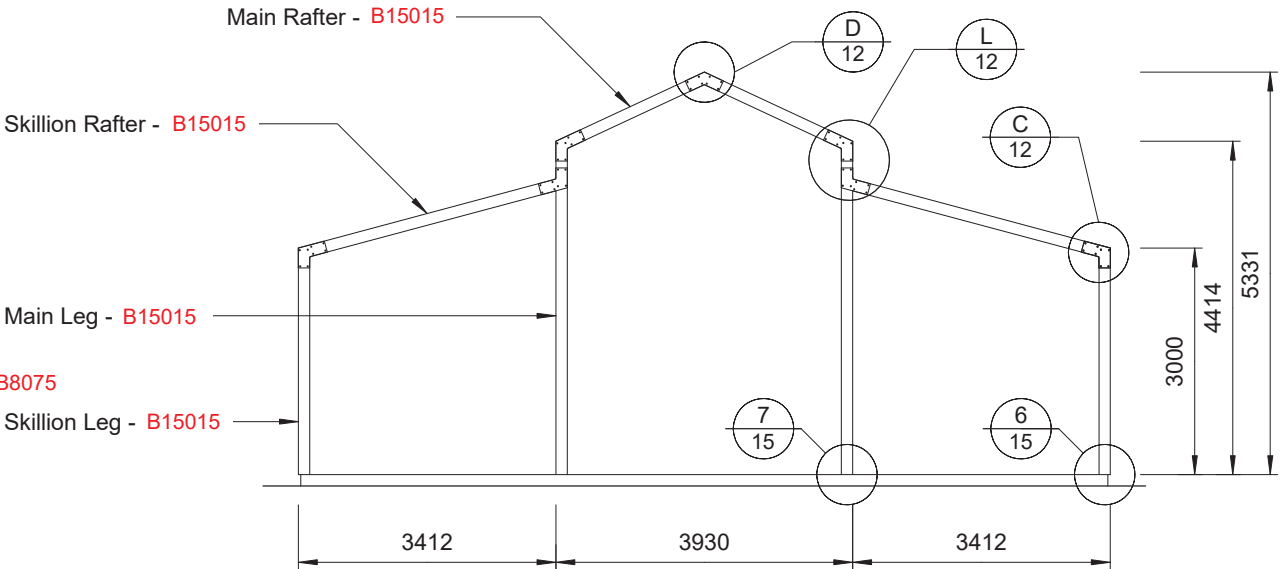
END PORTAL FRAME



END PORTAL FRAME



END PORTAL FRAME - TYPICAL DOUBLE MAIN DOOR ENTRY



INTERNAL PORTAL FRAME



PROJECT #: 1841383
REVISION: 0
DATE: 23/3/2020



TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

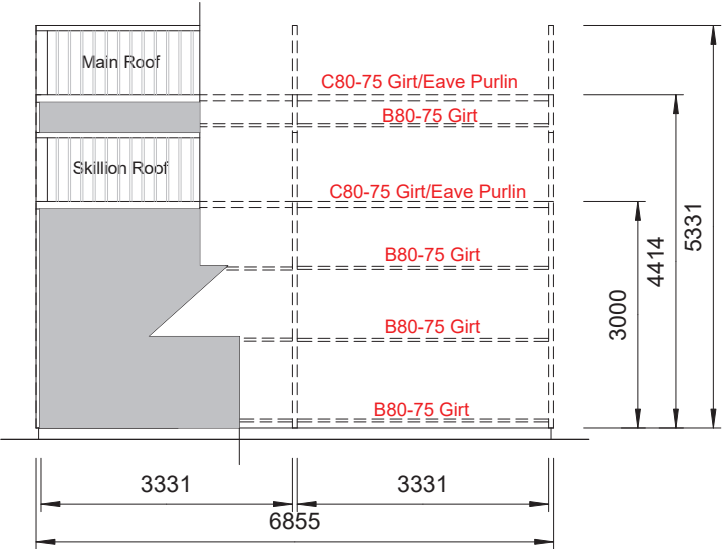
For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

Heritage Barn

Wall Sections

Scale: **A3 1:50**

DIMENSIONS IN mm UNLESS OTHERWISE STATED THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS



SIDE FRAME - 2 BAY

Purlins not shown for clarity

COPYRIGHT: THESE DRAWINGS MUST NOT BE REPRODUCED WITHOUT THE EXPRESS PERMISSION OF SPANBILD NEW ZEALAND LIMITED.



PROJECT #: 1841383
REVISION: 0
DATE: 23/3/2020



TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

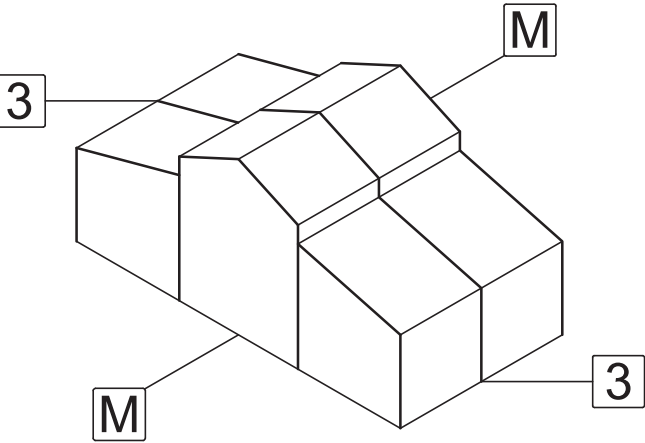
Heritage Barn

Wall Sections

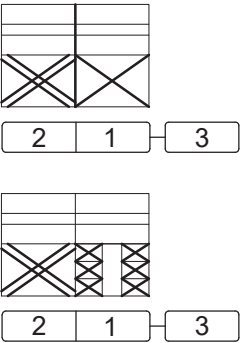
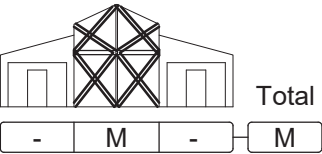
Scale: **A3 1:50**

DIMENSIONS IN mm UNLESS OTHERWISE STATED THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS

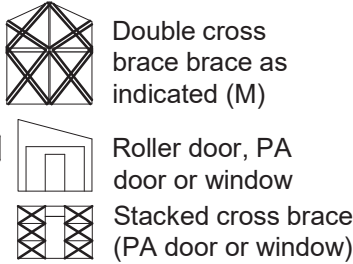
NUMBER OF BRACING PANELS REQUIRED



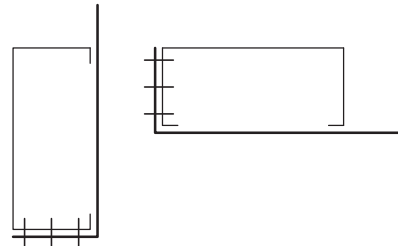
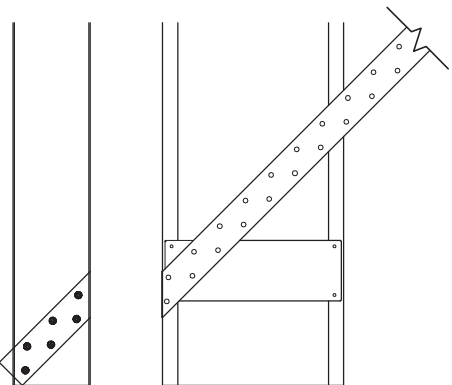
POSSIBLE BRACING PANELS



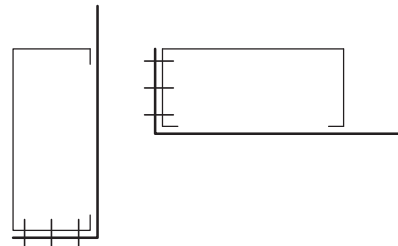
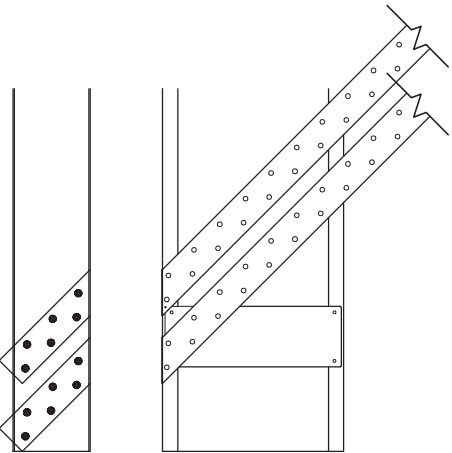
BRACING PATTERN KEY



TYPICAL STRAP BRACE CONNECTION DETAILS

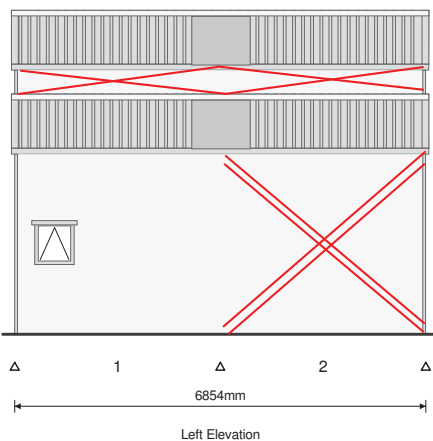
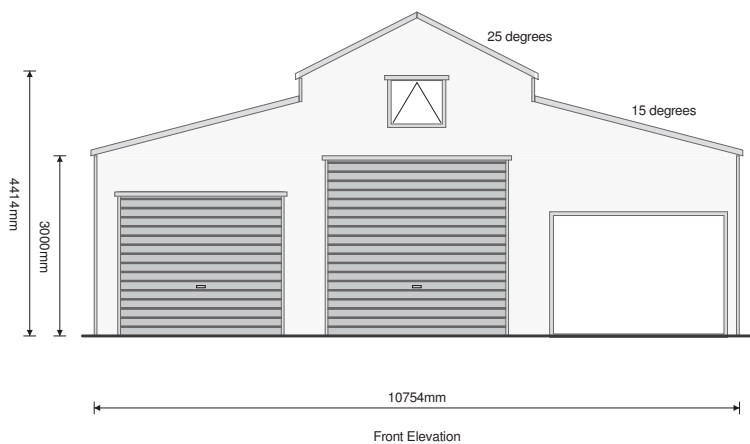
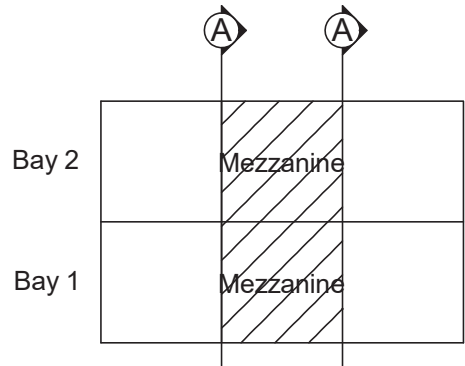


Single strap brace 27x0.6 G550 Z275 fixed to closed face with 6 #10 teks each end



Double strap brace 27x0.6 G550 Z275, both fixed to closed face with 6 #10 teks each end

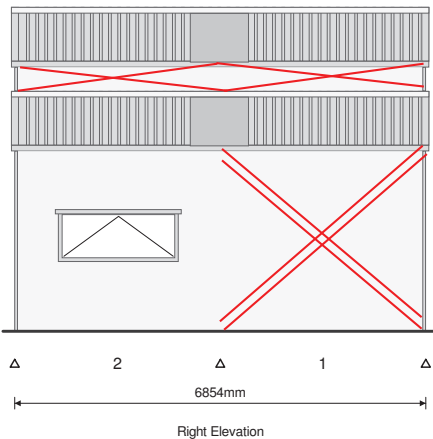
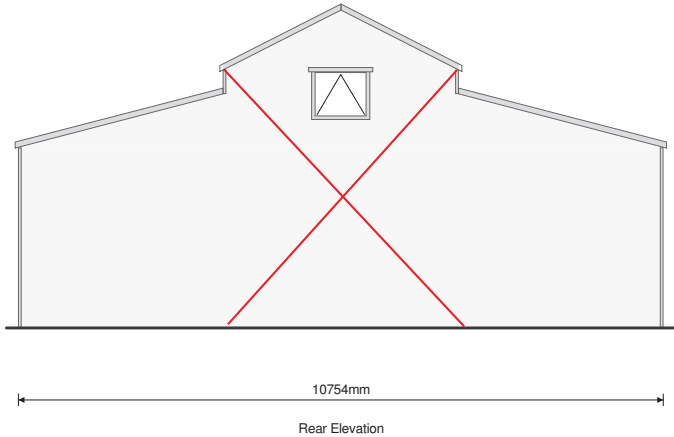
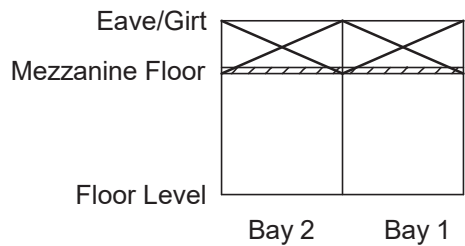
PLAN: Mezzanine Floor Option



Single strap brace on mezzanine side wall.

Double Multibrace on each side wall.

SECTION A: Mezzanine Internal Bracing



Single standard brace on end wall.

BRACING NOTES:

1. Bracing shall be strap brace 27x0.6 G550 Z275.
2. Where the bracing cannot meet the required layouts, a specific design is required.



PROJECT #: 1841383
REVISION: 0
DATE: 23/3/2020



TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

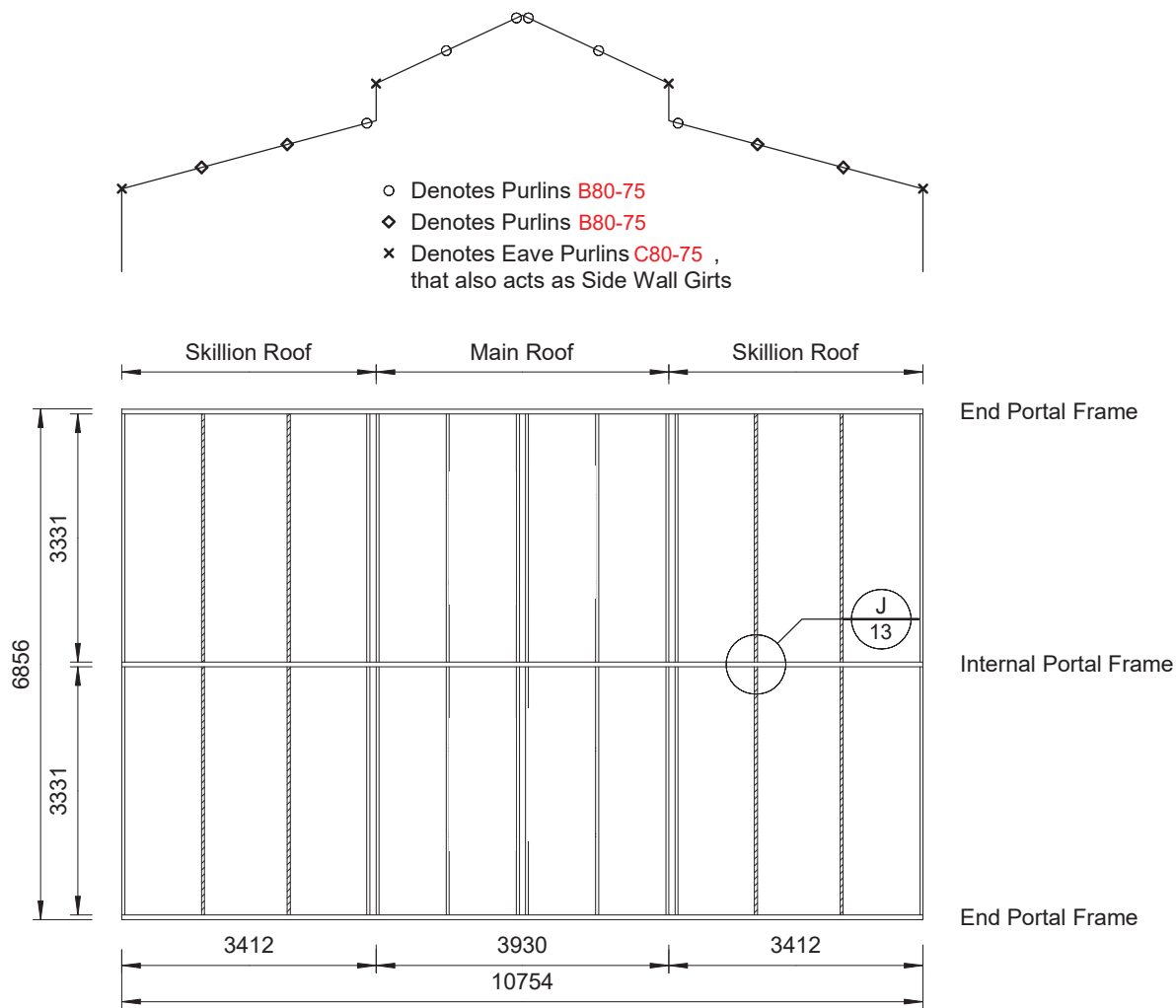
For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

Heritage Barn

Wall Bracing

Scale:

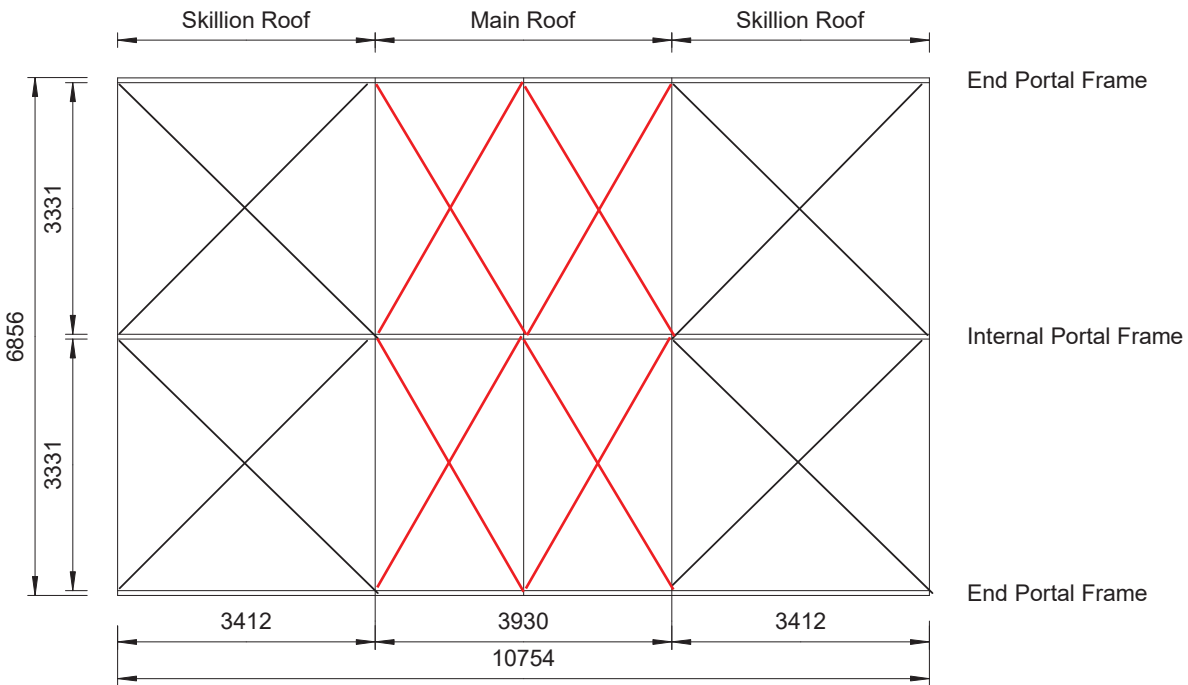
-



ROOF FRAMING - 2 BAY

Bracing Notes:

1. Roof Bracing 27X0.6 G550 Z275 Strap fixed with - 8 #10 teks each end.
2. Where the bracing cannot meet the required layouts, specific design is required.



ROOF BRACING - 2 BAY



PROJECT #: 1841383
REVISION: 0
DATE: 23/3/2020



TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

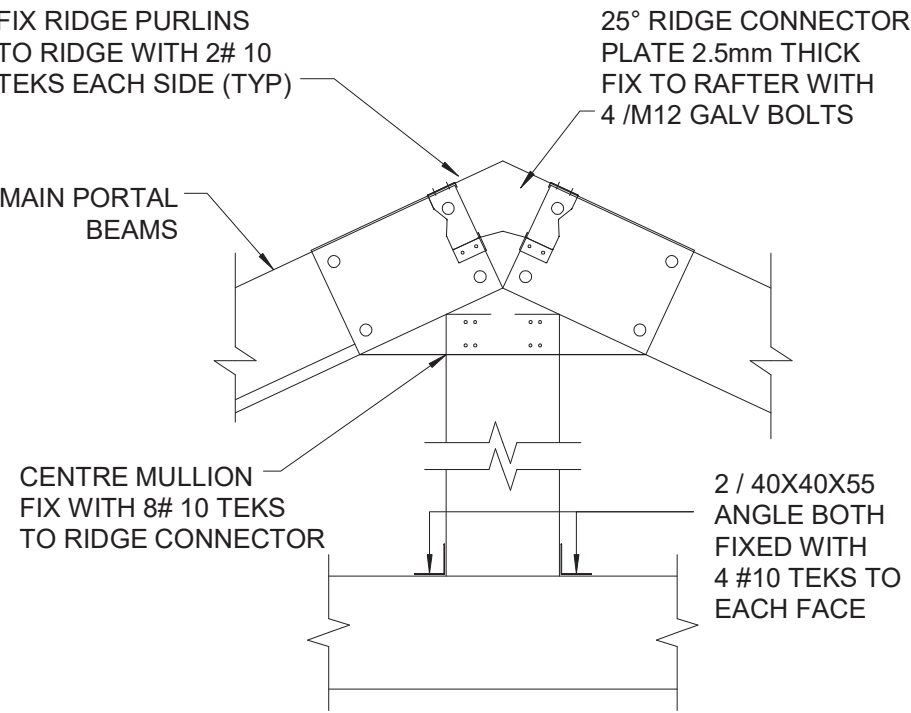
Heritage Barn

Roof Sections & Bracing

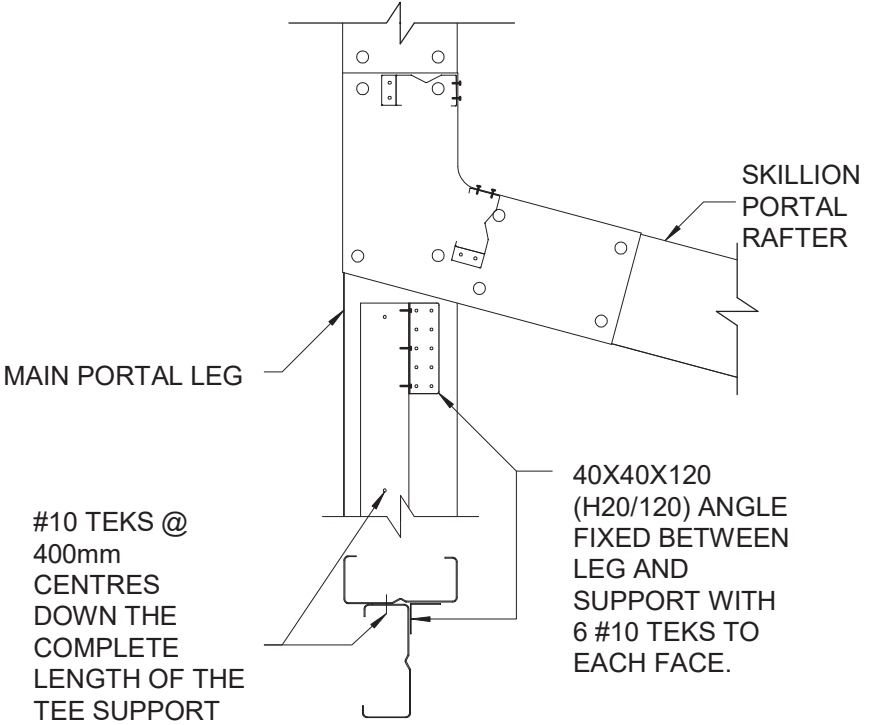
Scale: **A3 1:100**

DIMENSIONS IN mm UNLESS OTHERWISE STATED THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS

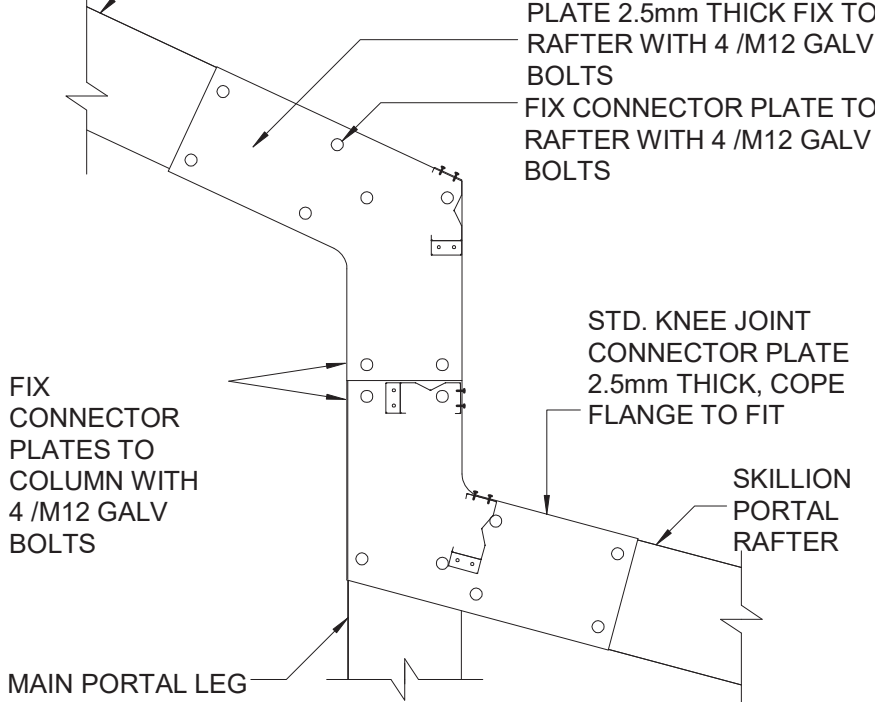
Detail A Typical Upright (On Flat) To Ridge Connector



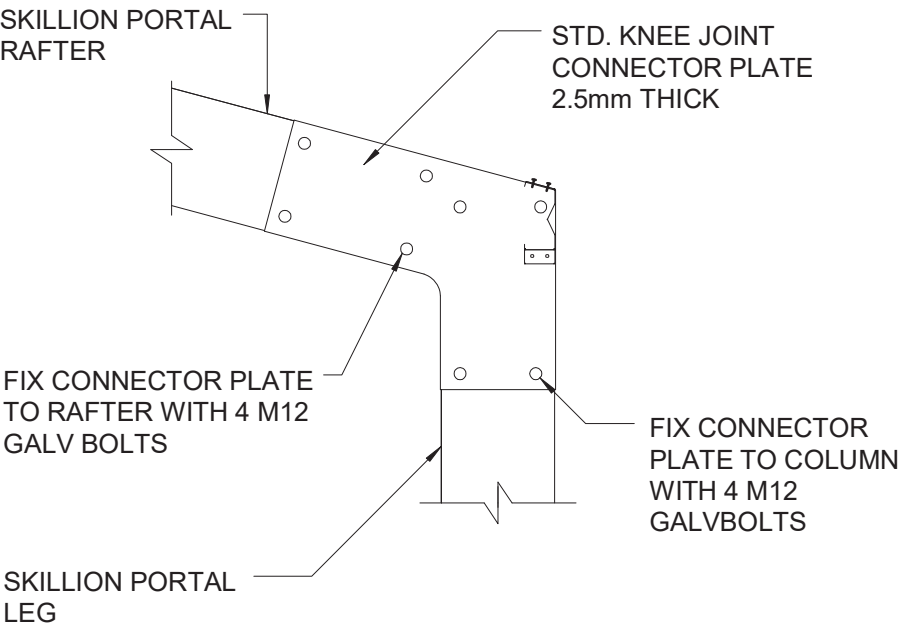
Detail B Main Leg and Tee Support Connections



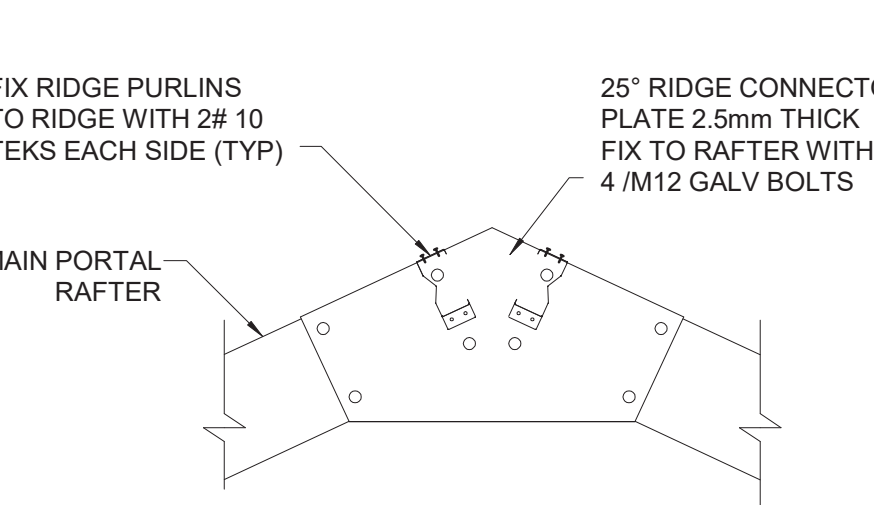
Detail L Typical Main Leg Connections



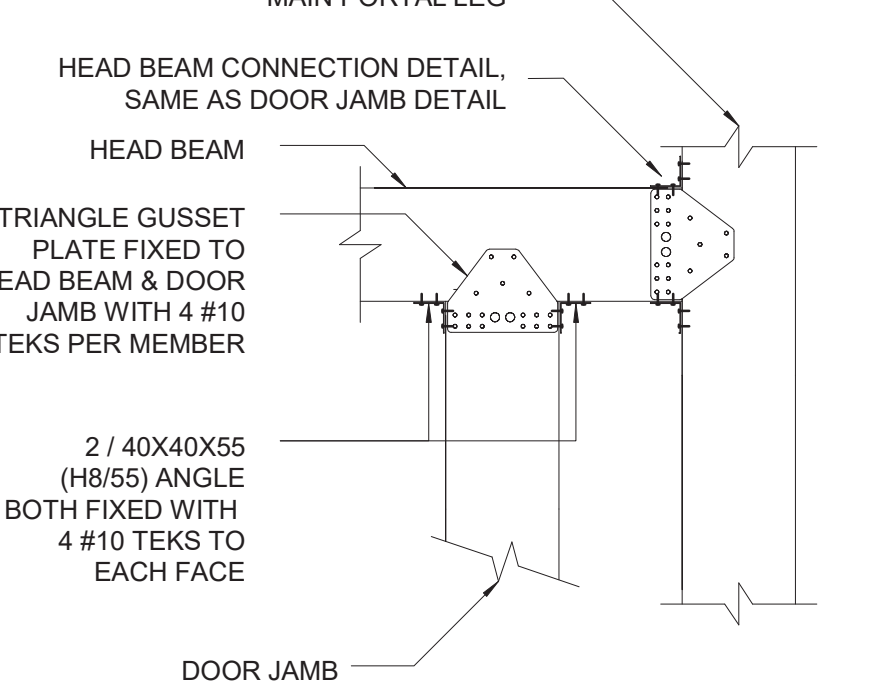
Detail C Typical Skillion Knee Connection



Detail D Typical Internal Ridge Connector



Detail E Typical Main Door Beam & Jamb



PROJECT #: 1841383
REVISION: 0
DATE: 23/3/2020



TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

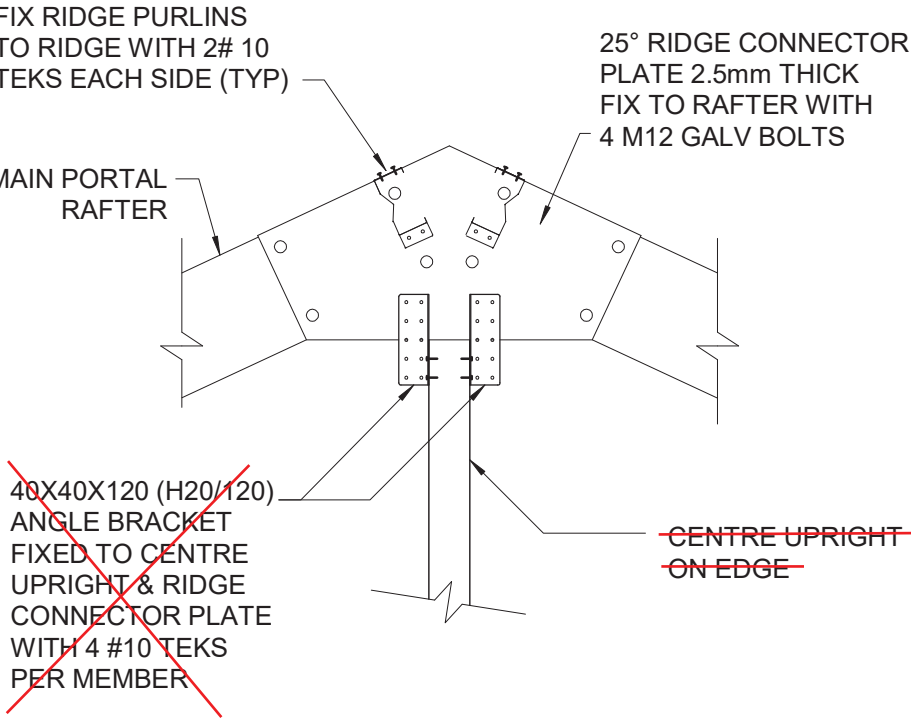
For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

Heritage Barn

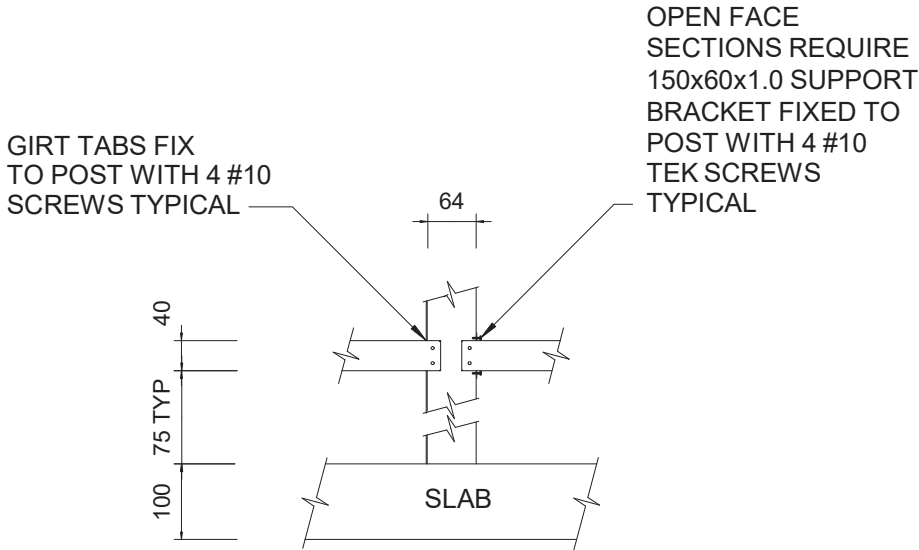
Connection Details

Scale: **A3 1:10**

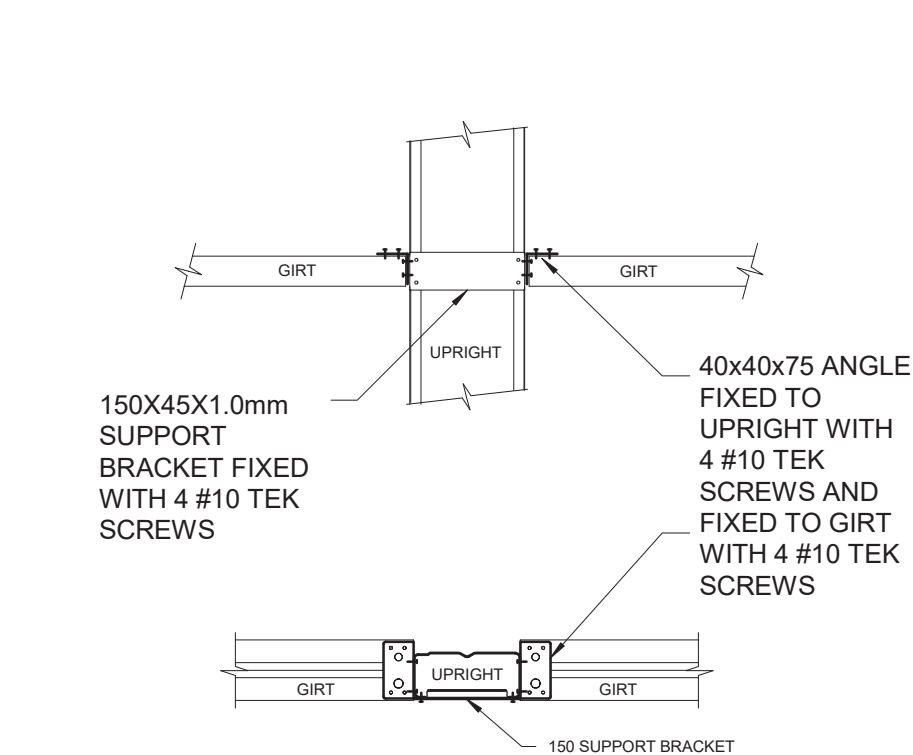
Detail F Typical Upright (On Edge) To Ridge Connector



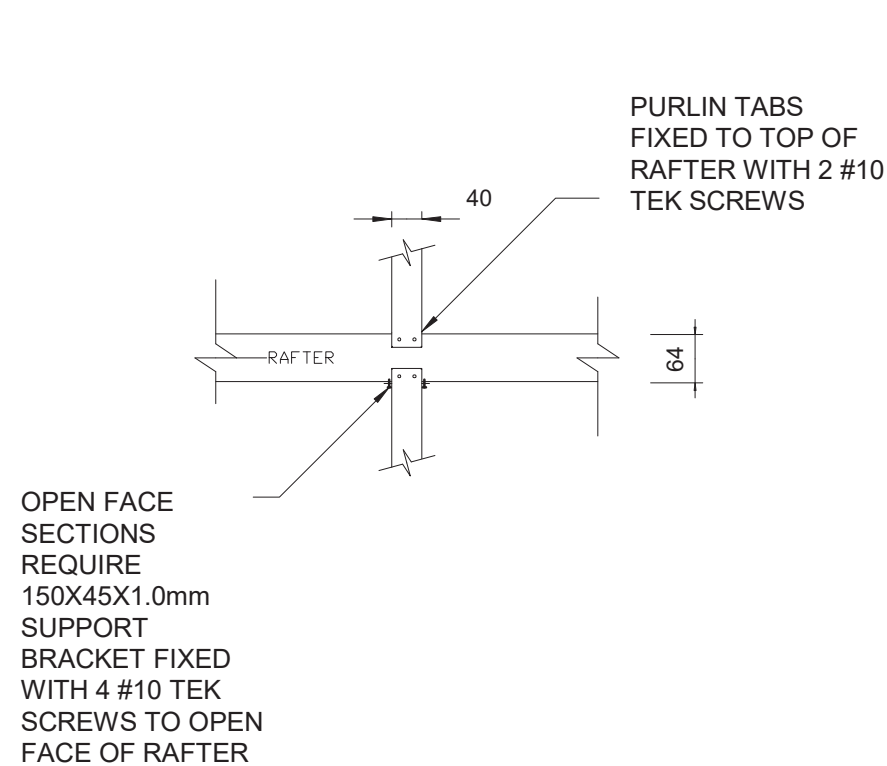
Detail G Typical Girt To Column



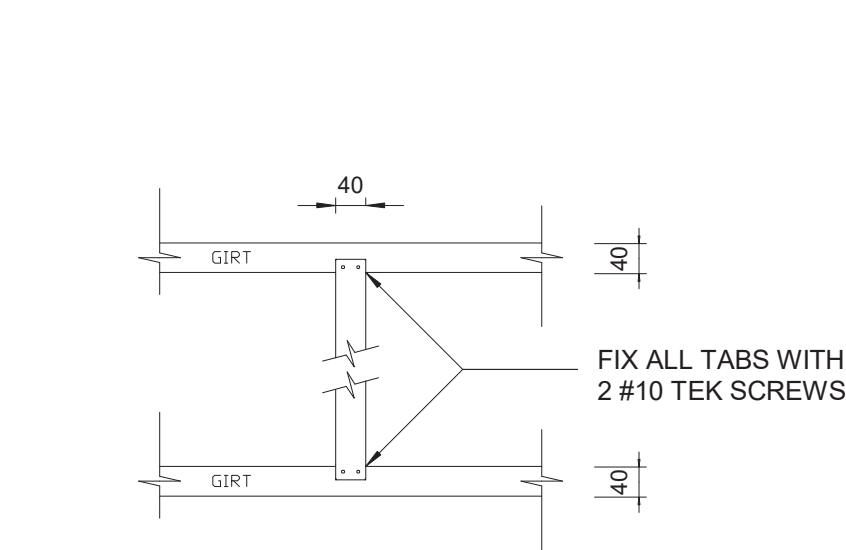
Detail H Typical Girt To Columns Edge



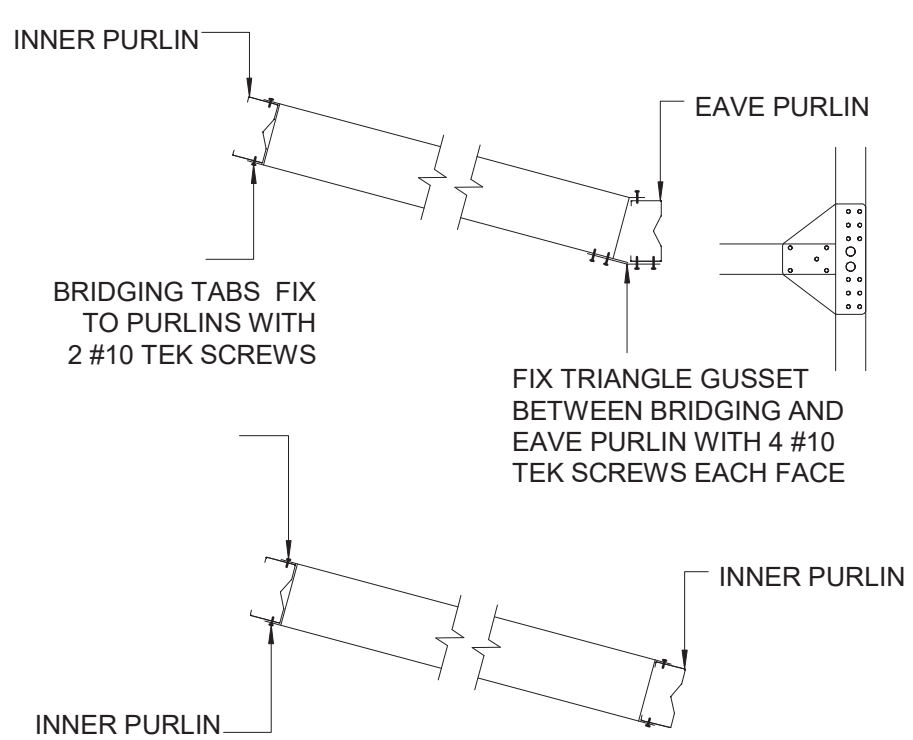
Detail J Typical Purlin To Rafter



Detail M Typical Jamb / Bridge To Girt



Detail K Typical Purlin Bridging Connection



PROJECT #: 1841383
REVISION: 0
DATE: 23/3/2020



TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

Heritage Barn

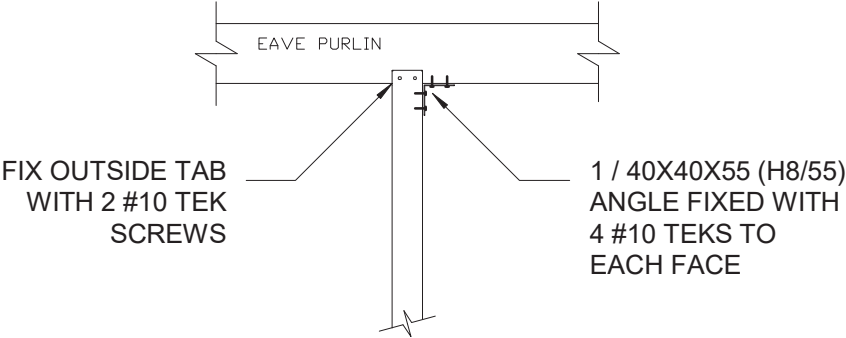
Connection Details

Scale: A3 1:10

DIMENSIONS IN mm UNLESS OTHERWISE STATED THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS

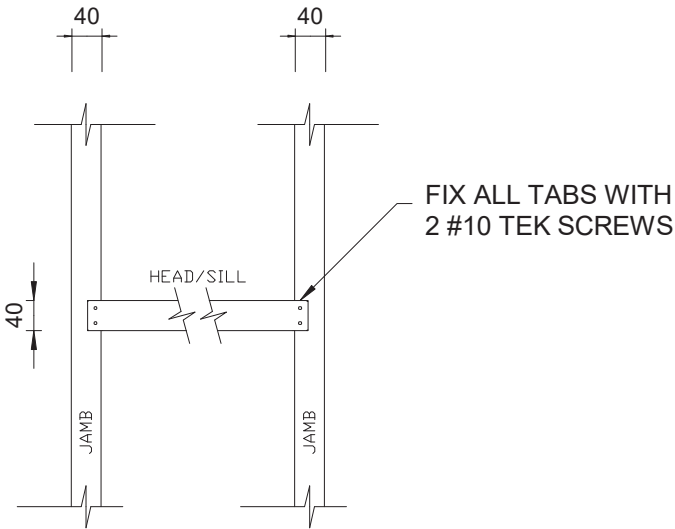
Detail N

Typical Jamb / Bridge To Eave Purlin



Detail O

Typical Head / Sill To Jamb



COPYRIGHT: THESE DRAWINGS MUST NOT BE REPRODUCED WITHOUT THE EXPRESS PERMISSION OF SPANBILD NEW ZEALAND LIMITED.



PROJECT #: 1841383
REVISION: 0
DATE: 23/3/2020



TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

Heritage Barn

Connection Details

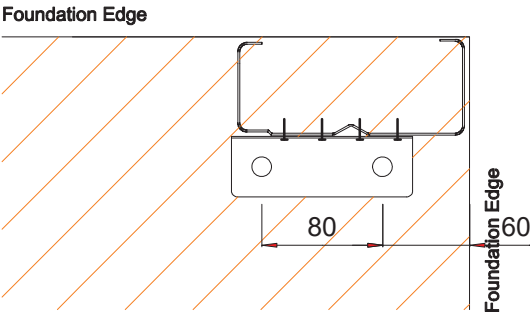
Scale: **A3 1:10**

DIMENSIONS IN mm UNLESS OTHERWISE STATED THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS

Detail 1

End Frame Skillion Corner Leg

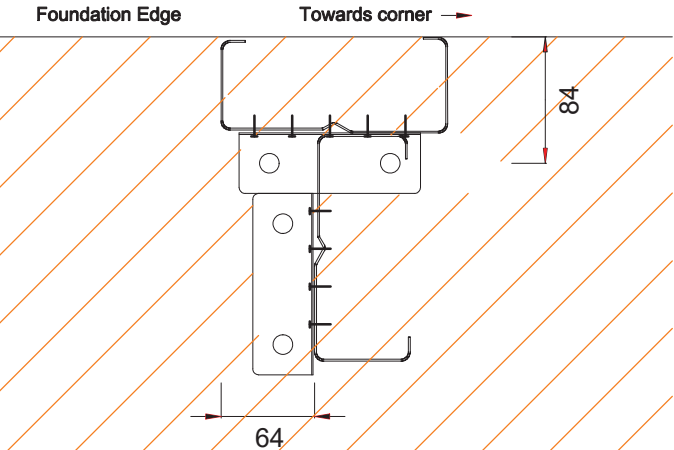
40X40X120 (H12/120) ANGLE FIXED TO SLAB WITH 2/10mm HEX SCREW BOLTS AND TO COLUMN WITH 8 # 10 TEKS



Detail 2

End Frame Main Leg

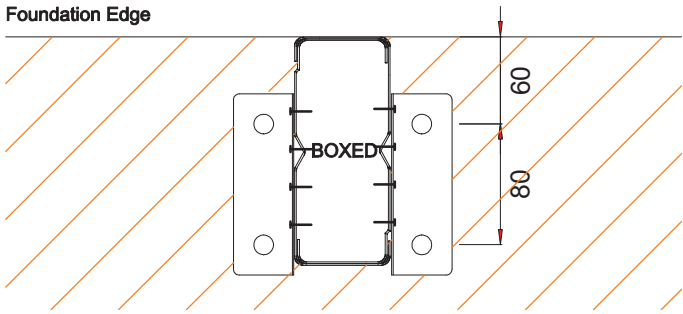
2 / 40X40X120 (H12/120) ANGLE BOTH FIXED TO SLAB WITH 2/10mm HEX SCREW BOLTS AND TO COLUMN WITH 8 #10 TEKS



Detail 3

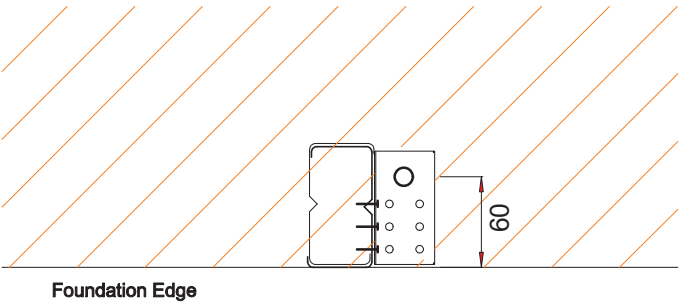
End Frame Centre Upright

2 / 40X40X120 (H12/120) ANGLE BOTH FIXED TO SLAB WITH 2/10mm HEX SCREW BOLTS AND TO COLUMN WITH 8 #10 TEKS



Detail 10

Stacked Bracing Panel Jamb

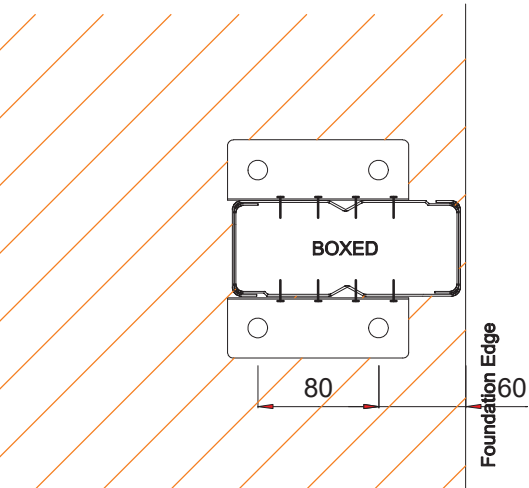


40X40X75 (H14/75) ANGLE FIXED TO SLAB WITH 1/10mm HEX SCREW BOLTS AND TO COLUMN WITH 6 #10 TEKS

Detail 6

Internal Frame Skillion Leg

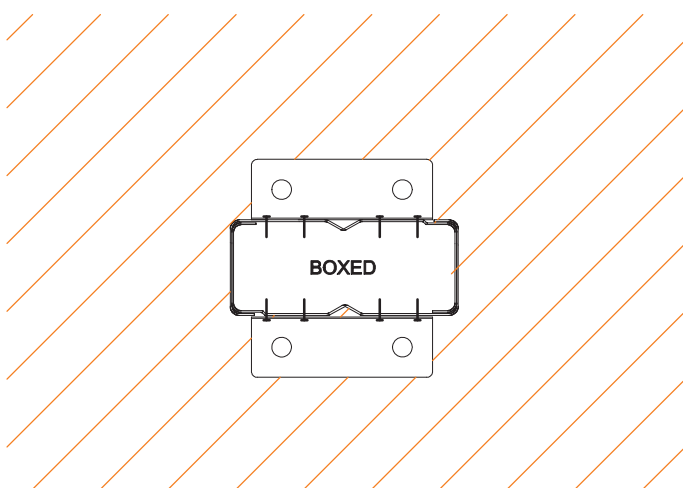
2 / 40X40X120 (H12/120) ANGLE BOTH FIXED TO SLAB WITH 2/10mm HEX SCREW BOLTS AND TO COLUMN WITH 8 #10 TEKS



Detail 7

Internal Frame Main Leg

2 / 40X40X120 (H12/120) ANGLE BOTH FIXED TO SLAB WITH 2/10mm HEX SCREW BOLTS AND TO COLUMN WITH 8 #10 TEKS



PROJECT #: 1841383
REVISION: 0
DATE: 23/3/2020



TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

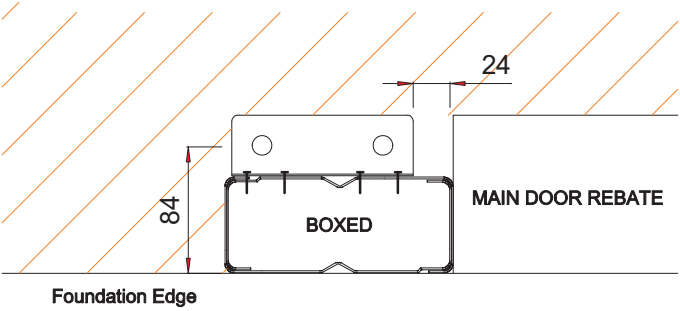
Heritage Barn

Floor Connection Details

Scale: **A3 1:5**

Detail 9

Main Door Jamb



40X40X120 (H12/120) ANGLE FIXED
TO SLAB WITH 2/10mm HEX SCREW
BOLTS AND TO COLUMN WITH 8 # 10
TEKS

COPYRIGHT: THESE DRAWINGS MUST NOT BE REPRODUCED WITHOUT THE EXPRESS PERMISSION OF SPANBILD NEW ZEALAND LIMITED.



PROJECT #:

1841383

REVISION:

0

DATE:

23/3/2020



TOTALSPAN

A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,

P.O.Box 11-013, Christchurch

For:

Michelle French

20 Waianga Place

Omapere

0473

New Zealand

Heritage Barn

Floor Connection Details

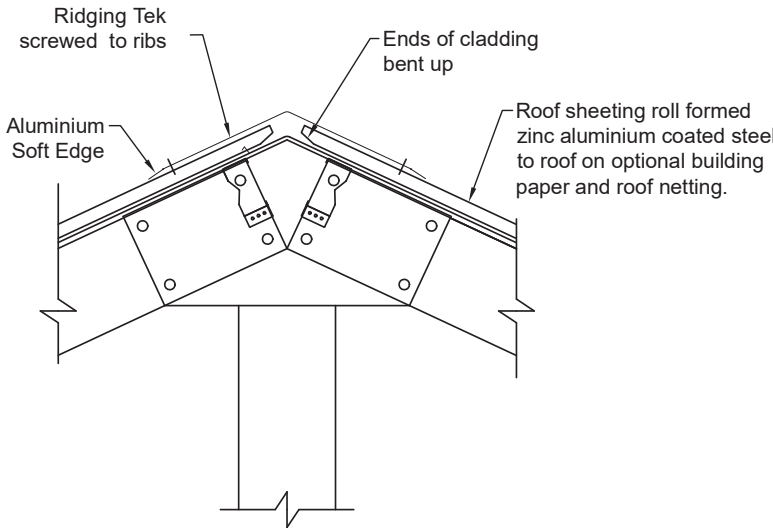
Scale:

A3 1:5

DIMENSIONS IN mm UNLESS OTHERWISE STATED THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS

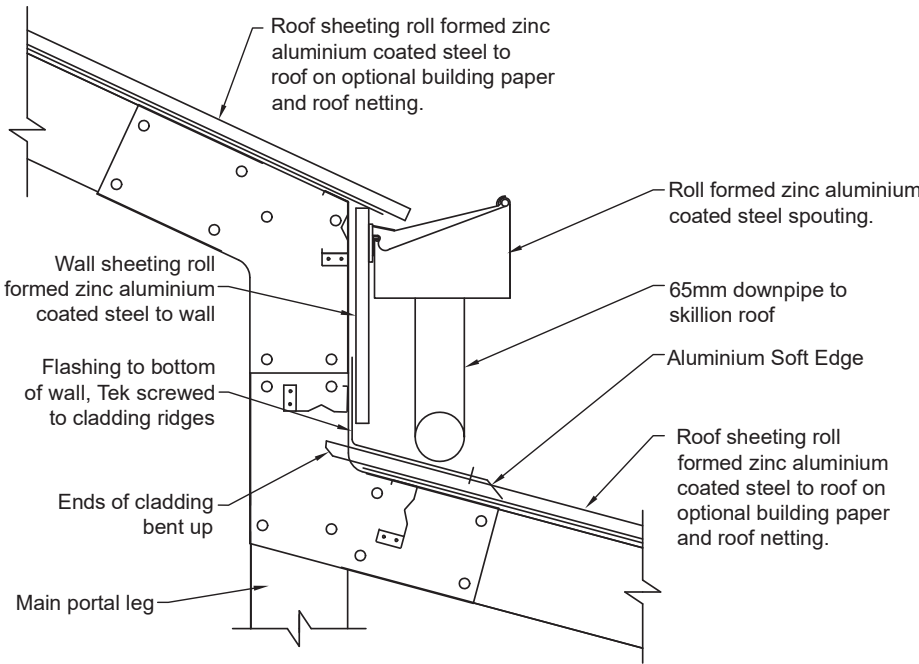
Ridge Flashing

N.T.S



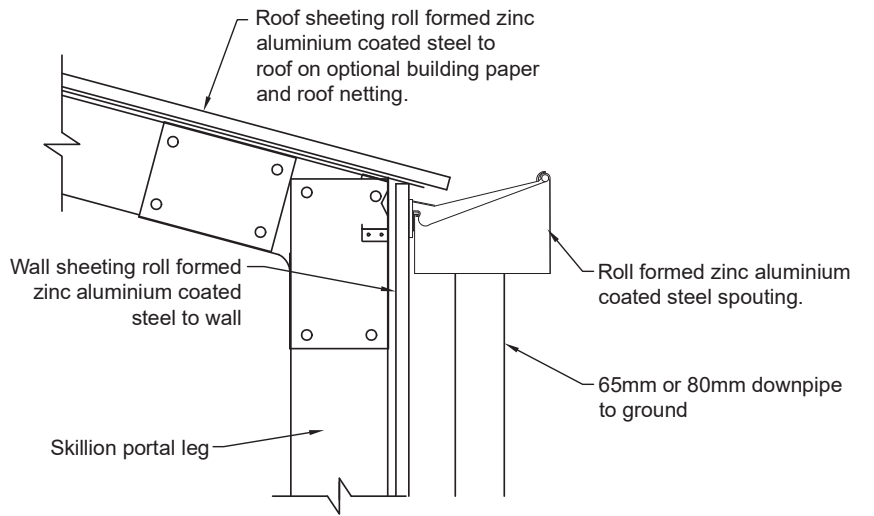
Upper Roof Eave & Skillion Apron Flashing

N.T.S



Skillion Roof Eave

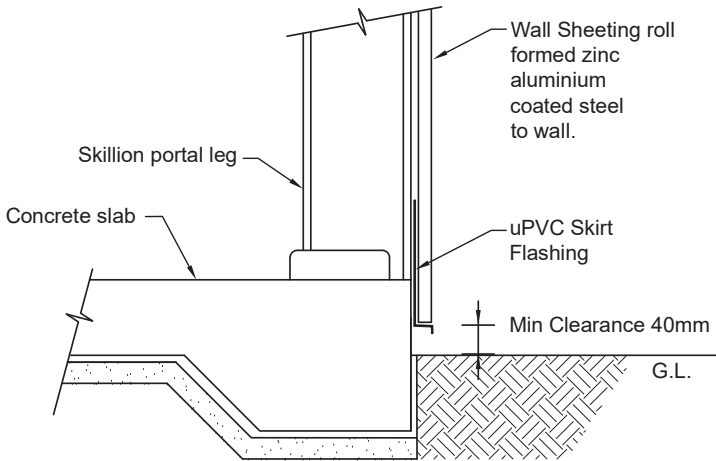
N.T.S



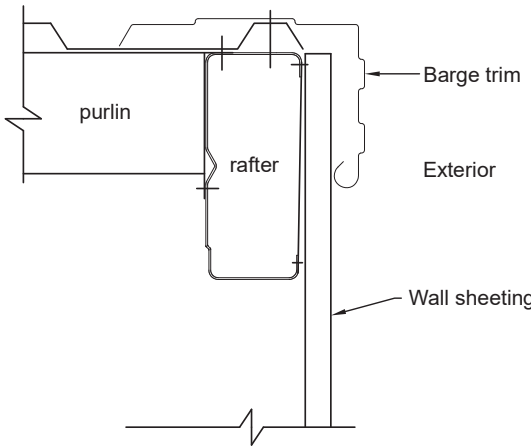
RP65mm Downpipe services 60m2 of roof area
RP80mm Downpipe services 100m2 of roof area
(Based on peak rainfall of 200mm per hour)

Wall Sheeting Base & uPVC Skirt Flashing

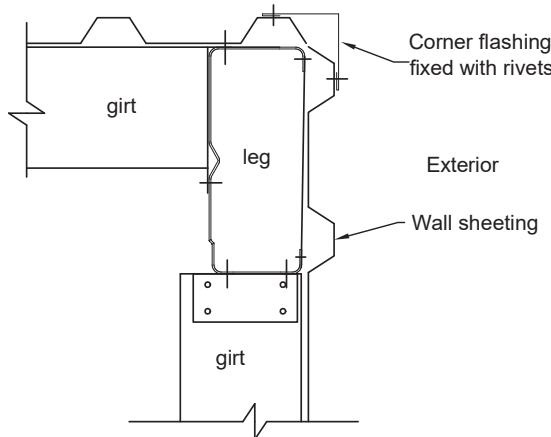
N.T.S



Barge



External Corner - B3a



TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

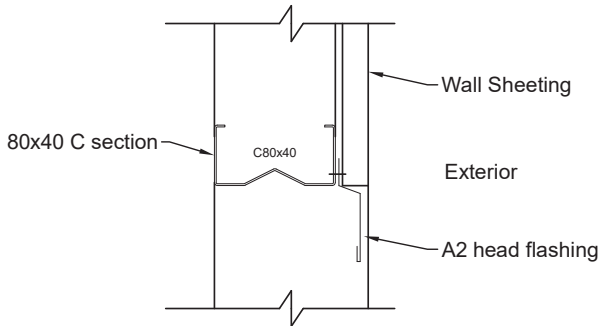
Heritage Barn

Flashing Details

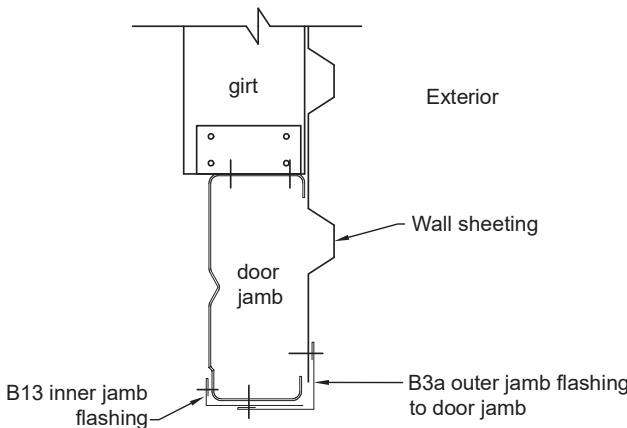
Scale: **A3 1:5**

DIMENSIONS IN mm UNLESS OTHERWISE STATED THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS

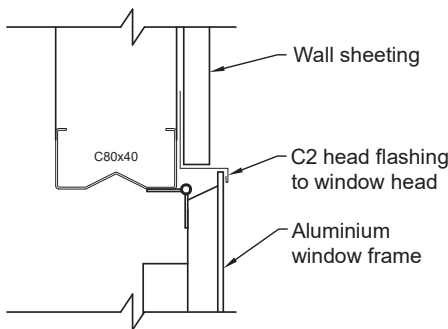
Maindoor Head - A2



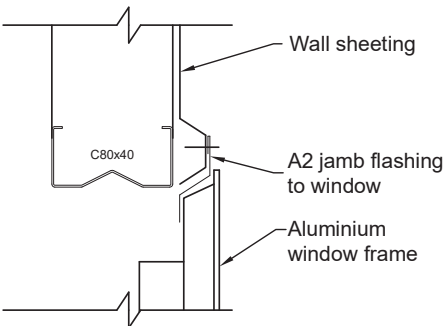
Maindoor Jamb - B3a & B13



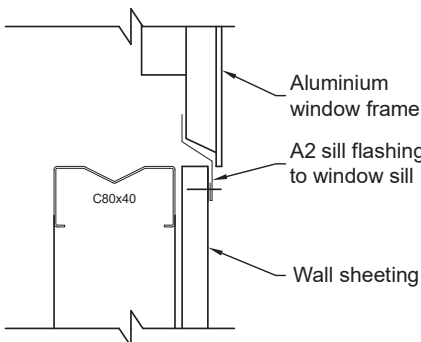
Window Head - C2



Window Jamb - A2

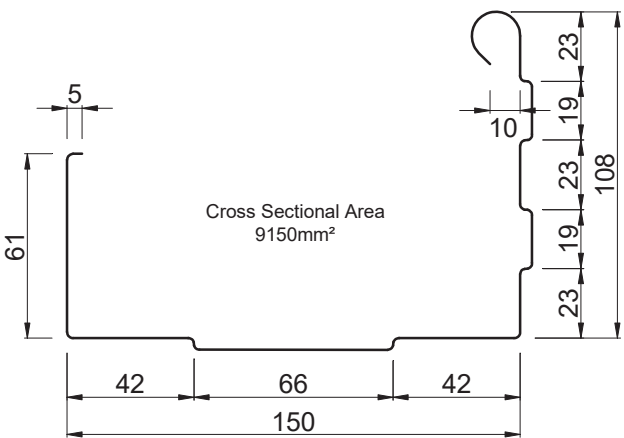


Window Sill - A2



Gutter Profile

N.T.S



TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

Heritage Barn

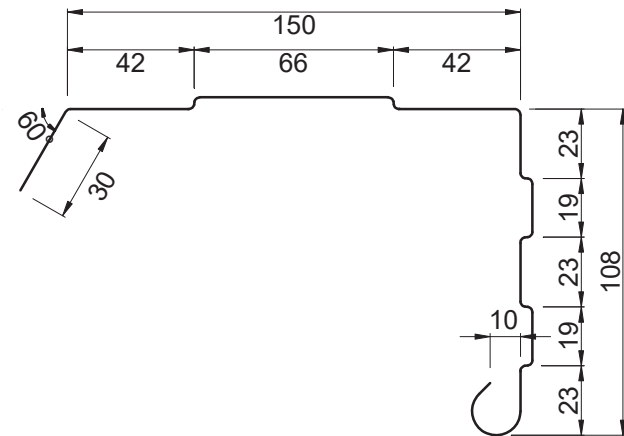
Flashing Details

Scale: A3 1:5

DIMENSIONS IN mm UNLESS OTHERWISE STATED THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS

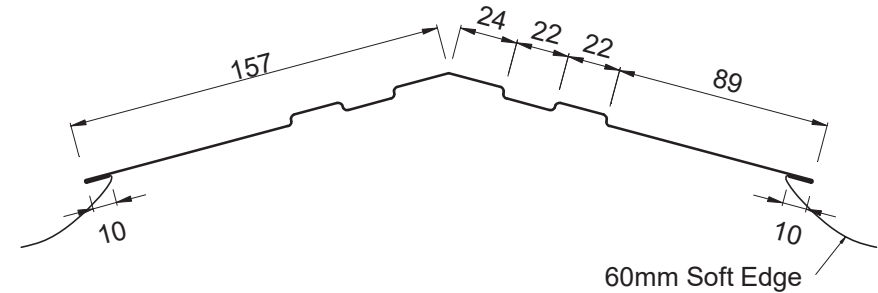
Barge Profile

N.T.S



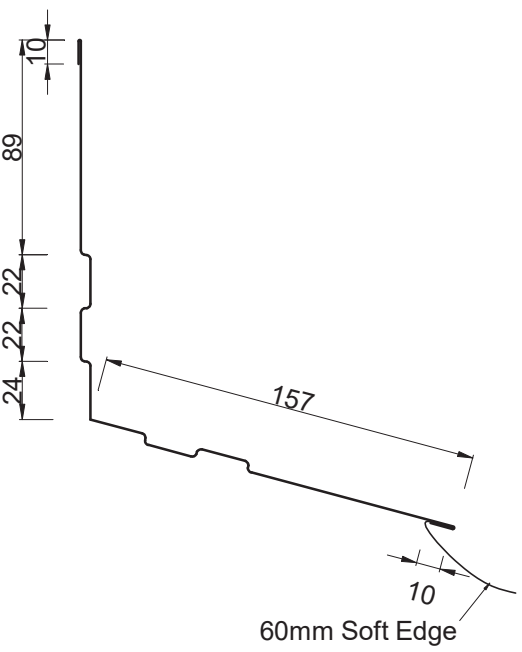
Ridge Profile

N.T.S



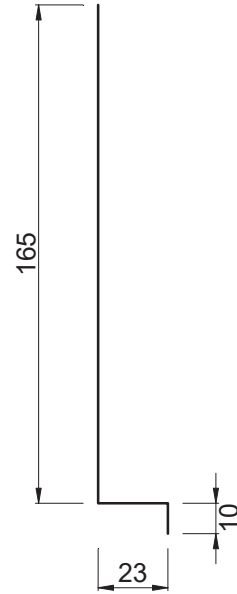
Skillion Flashing Profile

N.T.S



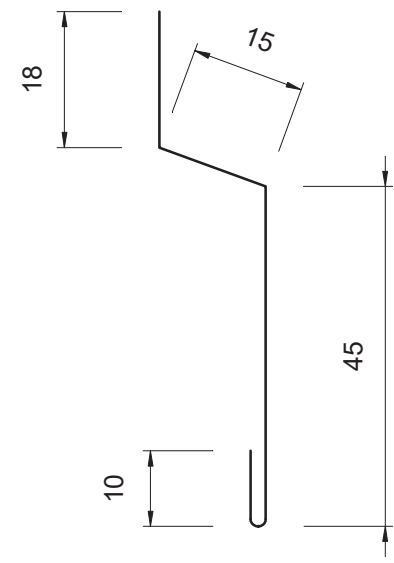
uPVC Skirt Flashing Profile

N.T.S



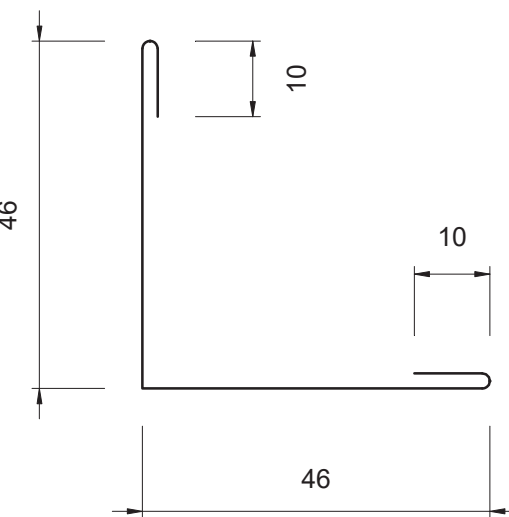
A2 Flashing Profile

N.T.S



B3a Flashing Profile

N.T.S



TOTALSPAN
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

For: Michelle French
20 Waiana Place
Omapere
0473
New Zealand

Heritage Barn

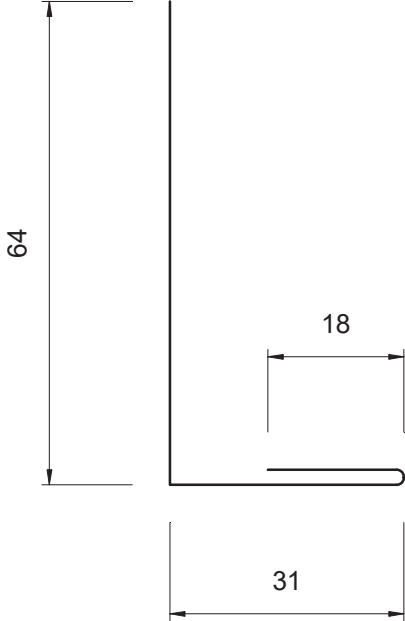
Flashing Details

Scale: **A3 1:5**

DIMENSIONS IN mm UNLESS OTHERWISE STATED THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS

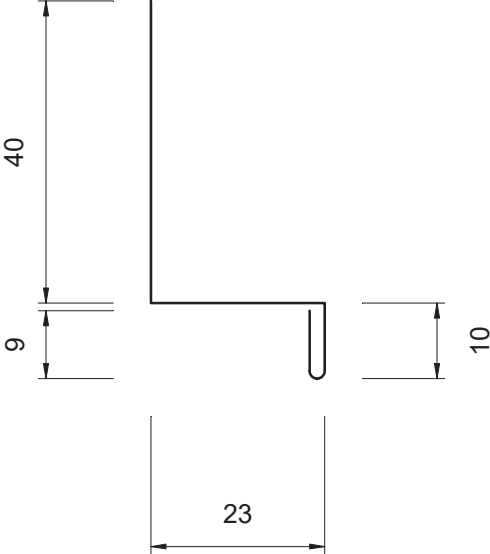
B13 Flashing Profile

N.T.S



C2 Flashing Profile

N.T.S



TOTALSPAN
A Division of Spanbild New Zealand Ltd

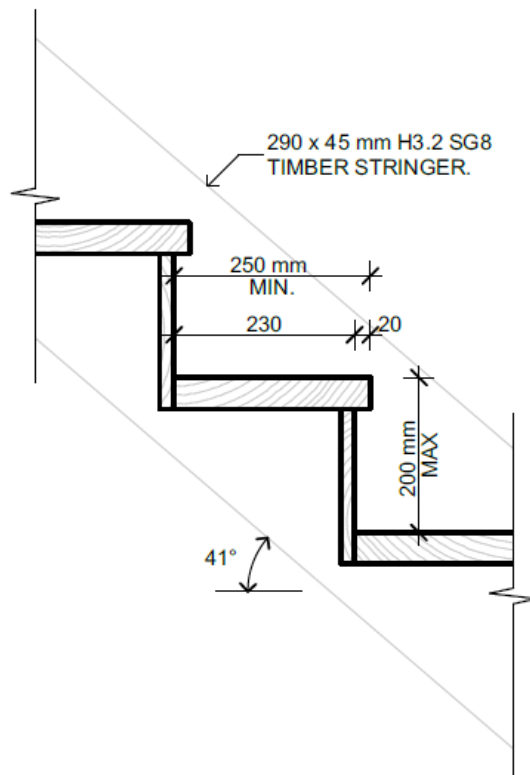
112 Waterloo Road, Hornby,
P.O.Box 11-013, Christchurch

For: Michelle French
20 Waianga Place
Omapere
0473
New Zealand

Heritage Barn

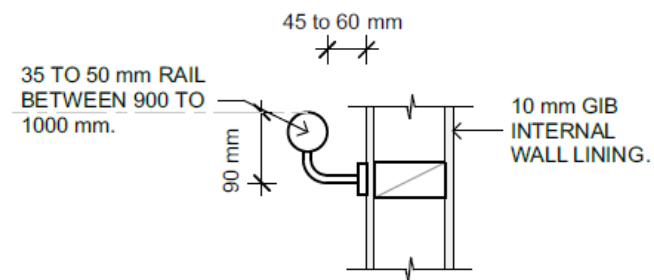
Flashing Details

Scale: **A3 1:5**



STAIRS AS PER BC- D1/AS1- FIGURE
11,12 & 13, SECONDARY PRIVATE STAIRCASE.

NOTE:
STAIRS TO BE DESIGNED BY OTHERS,
CONTRACTOR TO CONFIRM WITH STAIR
DESIGNER BEFORE BEGINNING
CONSTRUCTION.



Internal Handrail To BC- D1/AS1- Figure 25 & 26

08
302 TYPICAL STAIR & HANDRAIL DETAIL
Scale 1:10

3.55 BMT COL GP