Approved Building Consent Documents

Please Note: A copy of the stamped approved documents must be available on site for all inspections.

Inspection booking timeframes

Call received	before 3pm inspection will be done	after 3pm inspection will be done
Monday	Wednesday	Thursday
Tuesday	Thursday	Friday
Wednesday	Friday	Monday
Thursday	Monday	Tuesday
Friday	Tuesday	Wednesday

Building inspections and enquiries phone: 03 347 2839

Please ensure all work for inspection is ready the day before. Incomplete work requiring re-inspection will incur an additional inspection fee.

RECORD OF TITLE
UNDER LAND TRANSFER ACT 2017
FREEHOLD

Search Copy

R.W. Muir
Registrar-General
of Land

Identifier **1114901**

Land Registration District **Canterbury**

Date Issued 10 May 2023

Prior References
12658811.1

Estate Fee Simple

Area 2.0234 hectares more or less

Legal Description Reserve 3537

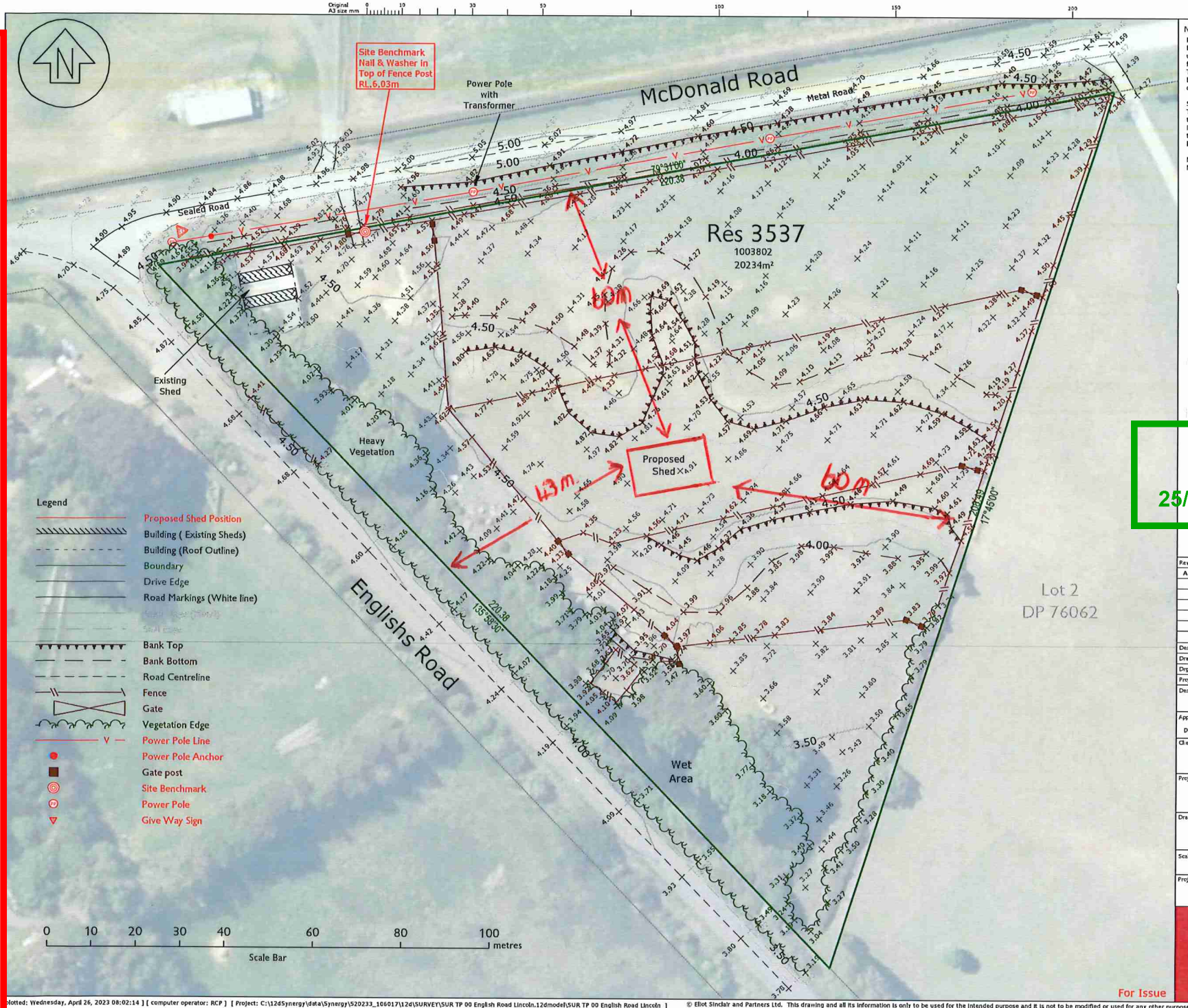
Registered Owners
Paul Brendon Campbell and Jo-Anne Campbell

Interests

Subject to Part IVA Conservation Act 1987

Subject to Section 11 Crown Minerals Act 1991

12658811.2 Encumbrance to His Majesty the King - 10.5.2023 at 8:30 am



Notes:

PROPERTY DATA
Boundary dimensions, bearings and areas have been adopted from underlying cadastral information. Abutting lot information is derived from the LINZ Digital Cadastral Database.
The boundary accuracy has been estimated at +/-50mm. Where boundary relationships are critical, it is recommended that a boundary definition survey be completed.

SPATIAL DATA
The physical data has been captured using Trimble R12i RTK GNSS to a relative accuracy of +/-20mm horizontally and +/- 20mm vertically in relation to the site benchmarks. The absolute accuracy of the topographic information is +/- 20mm relative to the stated origin of levels.

Major contour interval is 0.50m
Minor contour interval is 0.25m

Planning Approved

25/08/2023 wendy.green

Rev.	Description	Drawn	Date
A	For Issue	RCP	26.04.2023

	Name	Date
Designed		
Drawn	R.C.Paulsen	26.04.2023
Drg. Chk	D.J.Hocken	26.04.2023
Proj. Mgr	D.J.Hocken	April 2023
Design Review		Date
Approved	D.J.Hocken	Date 26.04.2023

Surveyed: R.C.Paulsen — Survey Date: April 2023
Coord System: NZGD2000 Mt Pleasant
Calibration:
Origin of Levels: V42 No 2 (EJ8F) SS Pin in Conc (Capped) Englishs/Davidsons Rd R.L. 5.001m
Datum: Lytt 1937 (2018)

Client: Jo-Anne & Paul Campbell

Project Title: Englishs & McDonald Roads - Lincoln

Drawing Title: Topographical Survey

Scales: 1:800 [A3]

Project No.	Set No.	Sht No.	Rev.
520233	T1	1	A

eliot sinclair

For Issue

www.eliotsinclair.co.nz, Christchurch 8149, Phone: 03 379-4014, info@eliotsinclair.co.nz
20 Troup Drive, PO Box 9339,

Plotted: Wednesday, April 26, 2023 08:02:14] [computer operator: RCP] [Project: C:\12dSynergy\data\Synergy\520233_106017\12d\SURVEY\SUR TP 00 English Road Lincoln.12dmodel\SUR TP 00 English Road Lincoln]

Paul Casey (PlaceMakers)

From: Jo-Anne Campbell <campbellfam@xtra.co.nz>
Sent: Thursday, 17 August 2023 4:32 PM
To: Paul Casey (PlaceMakers)
Subject: Building Consent
Attachments: 520233_Geotechnical Report_McDonald Road_20230817.pdf; CSM-399144-5-190-1 Post registration Record of Title 1114901.pdf

Hi Paul, please see attached geotechnical report and certificate of title for the shed build consent documents.

The shed will be used as vehicle storage, implement shed and domestic workshop.

Let me know if you require any more info. Cheers Jo & Paul.

Geotechnical Report

Version A

eliot sinclair

McDonald Road, Lincoln, (Res 3537)

Prepared for Jo & Paul Campbell

520233

Geotechnical Report

McDonald Road, Lincoln, (Res 3537)

Prepared for Jo & Paul Campbell

520233

Quality Control Certificate

Eliot Sinclair & Partners Limited

eliotsinclair.co.nz

Action	Name	Signature	Date
Prepared by:	Quentin Farrelly Geotechnical Engineering Technician NZDE Civil		15 August 2023
Reviewed and approved for release by:	Paul Sykes Geotechnical Engineer BE(Hons) Mining MEngNZ		16 August 2023
Status:	Version A		
Release date:	17 August 2023		
Distributed to:	Jo & Paul Campbell		

Version History

Status	Description	Author	Release Date
A	First issue of document	Q. Farrelly	17 August 2023

Contents

1. Introduction

Further to your request, we have investigated the shallow ground conditions at the above site and write to confirm the geotechnical conditions in the area of the proposed shed, along with any site specific recommendations for the new foundations and floor slab.

2. Building Proposal

Concept building plans from MiTek indicate a 216m² '*Farm Building*' constructed with a timber pole frame, lightweight steel roofing and cladding, and a concrete floor slab is proposed for the site.

3. Site Description

The site is legally described as Res 3537 and comprises an area of around 2ha. The property is located on the south eastern corner of the intersection of McDonalds and Englishs Roads in Green Park. The Ararira/LII River is around 260m to the south of the site.

The site is triangular in shape and the overall topography is gently undulating. The proposed building platform is located towards the central part of the site on a gentle rise. Further to the west of the building platform the site dips towards a densely vegetated area along the western boundary. This area forms a depression that leads into a drain along the side of Englishs Road which feeds into the Ararira/LII River to the south.

At the time of our investigation the site was vegetated with grass.

4. Engineering Geology

Published geology of the area indicates that the site is underlain by 'Modern river floodplain/low-level degradation terrace. Unweathered variably sorted gravel/sand/silt/clay Surfaces <2-degree slope. Grey river alluvium beneath plains or low-level terraces (Q1S1).

4.1. Water well bore information

The borelog for well M36/5335 which is located approximately 200m south east of the proposed building platform, recorded various layers of gravels with interbedded silt layers from the ground surface to 23m below ground level (bgl). Groundwater was recorded as 1.2m bgl at the time of drilling in November 1997.

The borelog for well M36/20237 which is located approximately 160m north west of the proposed building platform, recorded "*sandy pug*" to 16m bgl, gravel to 18m bgl, "claybound peat" to 24m and further gravels to 36m bgl. Groundwater was recorded as 1.1m below ground level at the time of drilling in December 2008.

5. Land Classification

The land for the proposed farm building was classified by the Canterbury Earthquake Recovery Authority (CERA) as Green Zone N/A – Rural & Unmapped.

5.1. Site Subsoil Classification

Due to the considerable depth of alluvial silts, sands and gravels that underlie the site, in terms of the seismic design requirements defined by NZS 1170.5:2004, the site subsoil classification is consistent with Class D 'Deep Soils'.

6. Shallow Soil Testing

Our shallow soil investigations carried out on 25 July 2023 consisted of four hand auger test holes and four Scala penetrometer tests carried out in the area of the proposed building platform. These tests indicate the nature of the shallow soil strata and the bearing capacity for foundation design.

6.1. Hand auger holes

The auger holes generally revealed 0.30m to 0.45m of topsoil overlying various layers of insitu sandy silts, silty sands and sands to between 0.9m to 2.3m where gravels were encountered and the tests were terminated due to the compact nature of the gravel.

6.2. Groundwater

Groundwater was encountered between 0.5m to 0.8m bgl at the test locations. Groundwater levels can fluctuate seasonally and following a period of prolonged or heavy rainfall.

6.3. Scala penetrometer tests

Scala penetrometer resistances were variable in the upper soil layers, however, below 1.4m depth resistances generally exceeded 3 blows per 100mm.

Please refer to the attached Site Investigation Records.

7. Foundation Recommendations

An uninhabited shed structure, as defined by AS/NZS 1170.0:2002, is classed as an Importance Level 1 structure and therefore need only to be designed on the basis of a lower intensity Ultimate Limit State earthquake, being for a 1 in 100 year event, compared to a 1 in 500 year event for a dwelling.

For an Importance Level 1 structure there is no design requirement for the Serviceability Limit State earthquake. The proposed structure is to comprise lightweight timber framed construction and will be relatively ductile. Therefore if a 1 in 100 Ultimate Limit State earthquake event induced small differential settlement to the foundations, then this is very unlikely to result in a sudden structural collapse of the building.

7.1. Pole footings

The foundation bearing conditions in the area of the proposed shed are variable to at least 1.4m bgl, with a more consistent and denser layer encountered below this.

Pole footings shown on the concept plans are bearing at 1.2m bgl and 1.6m bgl. We recommend that the shallower footings are deepened to bear at least 1.4m bgl on the more consistent soils. The design of any poles required for lateral bracing or uplift resistance shall also take into account the softer/variable upper soils.

The deeper soils below 1.4m depth shall be assumed to have a static '*index*' geotechnical ultimate bearing strength q_u=300kPa, (i.e. a design ultimate bearing strength of q_d=150kPa using a strength reduction factor of Φ_{bc}=0.5).

The upper softer variable natural soils below the topsoil shall be assumed to have an '*index*' geotechnical Ultimate Bearing Capacity of q_u=150kPa,(i.e. a design ultimate bearing strength of q_d=75kPa using a strength reduction factor of Φ_{bc}=0.5). These maximum strengths shall be used by the foundation design engineer.

The upper 0.6m of weak soils and topsoil should not be relied upon for lateral restraint of timber pole foundations.

The assessment of bearing capacity given here is the *index* geotechnical ultimate bearing capacity (GUBC) using the DCP blow count profile method given in the MBIE Residential Guidance Section 3.4.

7.2. Floor slab area

We recommend that all turf, topsoil, and any soft or organic rich soil is removed from the floor-slab area to a depth of at least 0.3m bgl. Localised over-excavation of unsuitable material may be required during construction.

We recommend any backfill that needs to be placed under the proposed floor slab comprise approved AP40 sandy gravels that are placed and compacted in 200mm thick layers to achieve a dry density of at least **2150kg/m^3**. Compacted backfill should extend up to the underside of the floor slab as needed.

8. Inspections

Eliot Sinclair's geotechnical engineer shall inspect the pole excavations to verify the depth of the excavation, that exposed bearing conditions are consistent with the recommendations of our report, and to ensure backfilling with compacted gravels beneath the floor slab is carried out in accordance with '*NZS4431:2022 Engineered fill construction for lightweight structures*.'

Please arrange for the builder to contact us at least 48 hours prior to excavation so that we can arrange the inspection.

9. Disclaimer

This report has been prepared by Eliot Sinclair & Partners Limited ("Eliot Sinclair") only for the intended purpose as described in Section 1 of this report. Our analysis is based on a visual inspection and shallow soil investigations of the site on 25 July 2023 comprising shallow Scala penetration testing, shallow hand auger testing and shallow spade hole testing across the proposed building platform.

The report is based on:

The most recent version of the Ministry of Business, Innovation and Employment Guidelines.

Where data supplied by Jo & Paul Campbell or other external sources, including previous site investigation reports, have been relied upon, it has been assumed that the information is correct unless otherwise stated. No responsibility is accepted by Eliot Sinclair for incomplete or inaccurate data supplied by other parties.

Whilst every care has been taken during our investigation and interpretation of subsurface conditions to ensure that the conclusions drawn, and the opinions and recommendations expressed are correct at the time of reporting, Eliot Sinclair has not performed an assessment of all possible conditions or circumstances that may exist at the site. Variations in conditions may occur between investigatory locations and there may be conditions such as subsoil strata or features at depth that were not detected by the scope of the investigation that was carried out or have been covered over or obscured over time. Additionally, on-going seismicity in the general area may lead to deterioration or additional ground settlement that could not have been anticipated at the time of writing this report. Eliot Sinclair does not provide any warranty, either express or implied, that all conditions will conform exactly to the assessments contained in this report.

At time of foundation excavation, should the exposure of soil conditions that vary from those described in this report, or the requirements of MBIE's guidelines, NZ Standards or the NZBC that relate to foundations and floors be updated, a review of our recommendations may be required. Eliot Sinclair should be contacted to confirm the validity of this report should any of these occur.

This report has been prepared for the benefit of Jo & Paul Campbell and the Selwyn District Council for the purposes as stated above. No liability is accepted by Eliot Sinclair or any of their employees with respect to the use of this report, in whole or in part, for any other purpose or by any other party.

Appendix A. Site Investigation Records

Site Investigation Record

Client: Jo & Paul Campbell

Site: McDonald Road, Greenpark

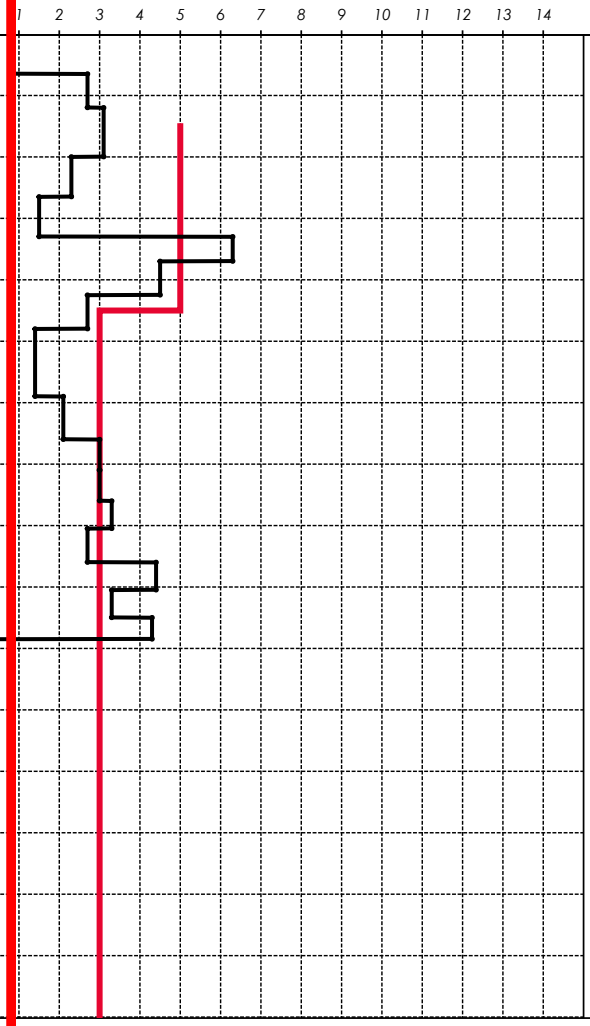
Technical Category: N/A - Rural & Unmapped

Lot: Res 3537 **D.P.:**

Date Tested: 25-Jul-2023

Log Sheet No.: 1 of 1 **Project No.:** 520233

Dynamic Cone Penetrometer (DCP) Test Results



01

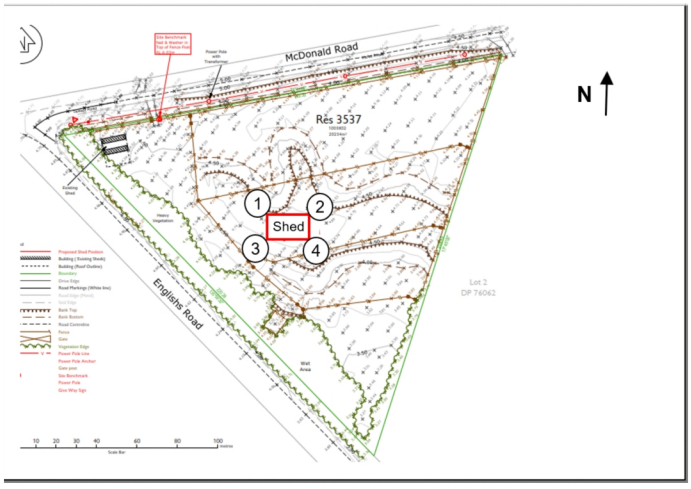
Minimum penetration resistance (based on 300mm wide footing founded at 300mm depth) required for 'Good Ground' as defined in the Acceptable Solutions and Verification Methods for NZBC Clause B1 Structure.

Soil Profile

Test Location 01	Water
FILL: silty TOPSOIL, with some gravel; dark brown. Wet.	
Sandy SILT; brownish grey. Wet; some organic material, some iron staining.	▽ 0.6m
Silty fine to medium SAND; brownish grey. Wet.	
SILT; bluish grey. Firm; moist to wet; some iron staining.	
Silty medium SAND; darkish grey. Saturated.	
Gravelly SAND; darkish grey. Saturated; gravel, medium.	
EOH: 2.1m - Practical refusal on firm gravels.	

Comments:

Site Plan: (Not to Scale)



Field Staff:	Prepared By:	Soil Profile From:
QJF/BC	QJF	☑ Hand Auger
Job Manager:	Approved By:	☐ Spade Hole
DJH	PRS	☐ Test Pit

Note: This record identifies the geotechnical conditions encountered at the noted test location(s) only. It is possible that ground conditions could be different away from the point(s) of testing.

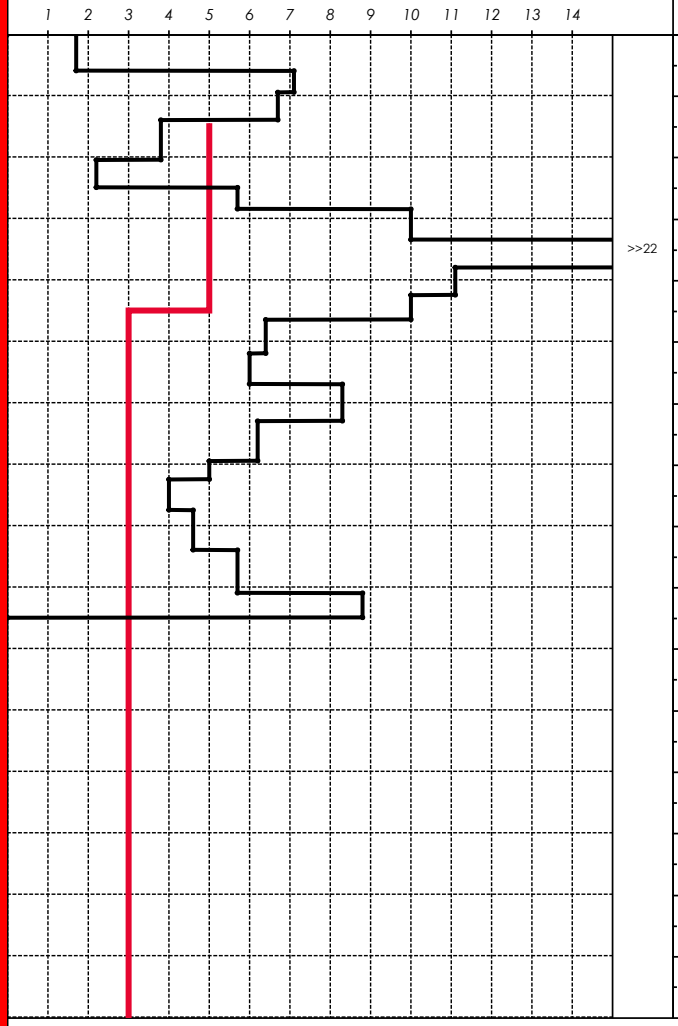
Site Investigation Record

Client: Jo & Paul Campbell **Site:** McDonald Road, Greenpark

Technical Category: N/A - Rural & Unmapped **Lot:** Res 3537 **D.P.:**

Date Tested: 25-Jul-2023 **Log Sheet No.:** 1 of 1 **Project No.:** 520233

Dynamic Cone Penetrometer (DCP) Test Results



02

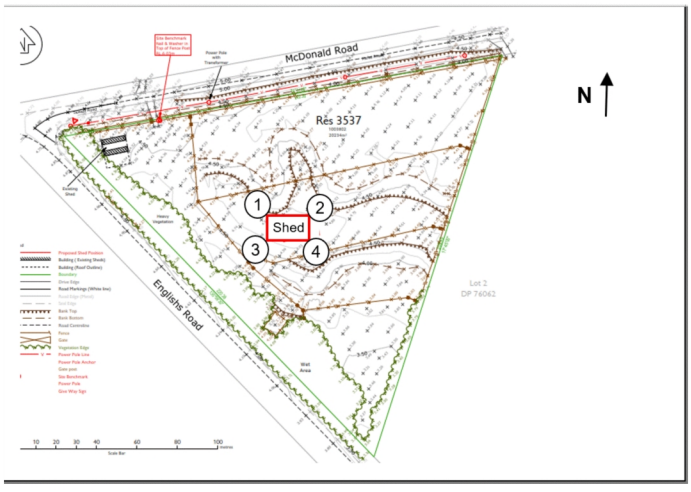
Minimum penetration resistance (based on 300mm wide footing founded at 300mm depth) required for 'Good Ground' as defined in the Acceptable Solutions and Verification Methods for NZBC Clause B1 Structure.

Soil Profile

Test Location 02

Depth (m)	Soil Profile	Water
0.0 – 0.4	FILL: silty TOPSOIL; dark brown. Moist to wet.	
0.4 – 0.6	FILL: silty sandy medium to coarse GRAVEL; dark brownish . Wet to saturated.	▽ 0.5m
0.6 – 0.8	Silty fine to medium SAND; yellowish grey. Moist; some iron staining.	
0.8	EOH: 0.85m - Practical refusal met on gravels.	

Site Plan: (Not to Scale)



Comments:

Field Staff:	Prepared By:	Soil Profile From:
QJF/BC	QJF	☑ Hand Auger
Job Manager:	**Approved By:**	☐ Spade Hole
DJH	PRS	☐ Test Pit

Note: This record identifies the geotechnical conditions encountered at the noted test location(s) only. It is possible that ground conditions could be different away from the point(s) of testing.

Site Investigation Record

Client: Jo & Paul Campbell

Site: McDonald Road, Greenpark

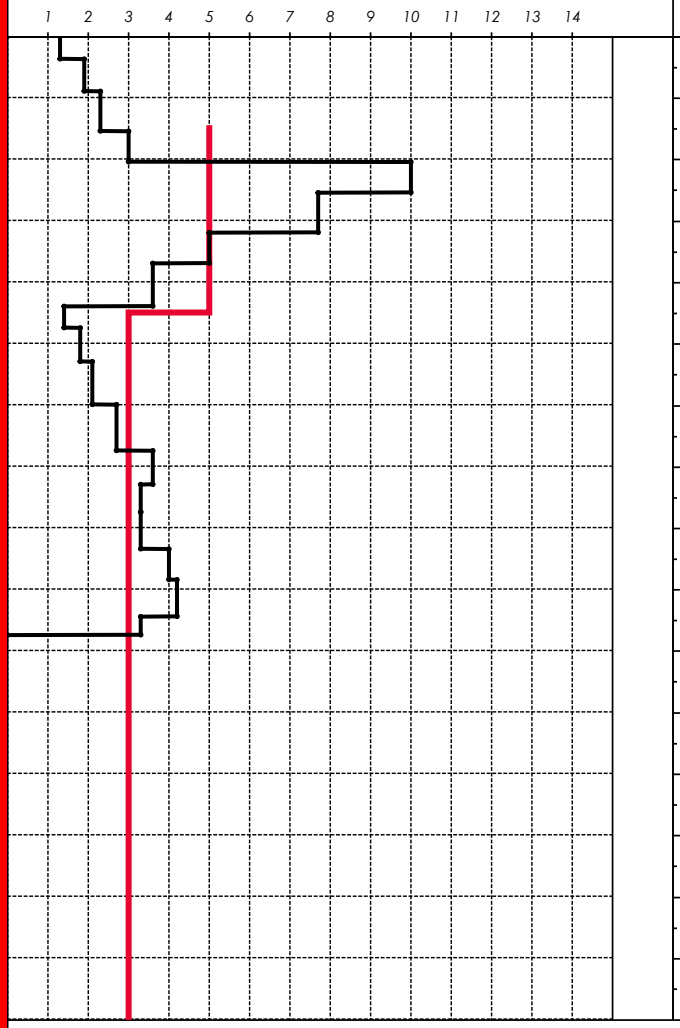
Technical Category: N/A - Rural & Unmapped

Lot: Res 3537 **D.P.:**

Date Tested: 25-Jul-2023

Log Sheet No.: 1 of 1 **Project No.:** 520233

Dynamic Cone Penetrometer (DCP) Test Results



03

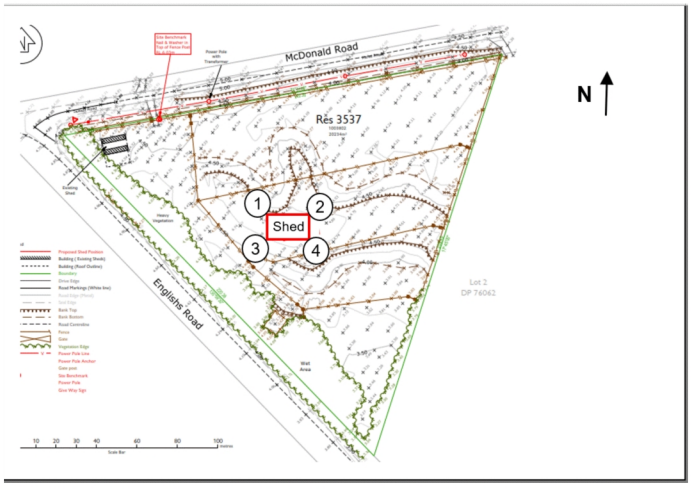
Minimum penetration resistance (based on 300mm wide footing founded at 300mm depth) required for 'Good Ground' as defined in the Acceptable Solutions and Verification Methods for NZBC Clause B1 Structure.

Soil Profile

Test Location 03

Depth (m)	Description	Water
0.2	FILL: silty TOPSOIL; dark brown. Wet.	
0.4	Sandy SILT; yellowish brown. Moist to wet.	
	Silty sandy medium to coarse GRAVEL; yellowish brown. Wet.	
0.6	Sandy SILT; greyish. Wet.	
0.8		▽ 0.8m
1.0	Fine SAND, with minor silt; greyish.	
1.2		
1.4		
1.6	Sandy SILT; dark greyish brown.	
1.8	WOOD FIBRE; yellowish brown. Wet; tree root?.	
2.0	Fine to medium SAND; dark grey. Wet to saturated. 2.00m: Some wood fibres.	
2.2		
2.4	EOH: 2.3m - Practical refusal met on gravels.	
2.6		
2.8		
3.0		

Site Plan: (Not to Scale)



Comments:

Field Staff:	Prepared By:	Soil Profile From:
QJF/BC	QJF	☑ Hand Auger
Job Manager:	**Approved By:**	☐ Spade Hole
DJH	PRS	☐ Test Pit

Note: This record identifies the geotechnical conditions encountered at the noted test location(s) only. It is possible that ground conditions could be different away from the point(s) of testing.

Site Investigation Record

Client: Jo & Paul Campbell

Site: McDonald Road, Greenpark

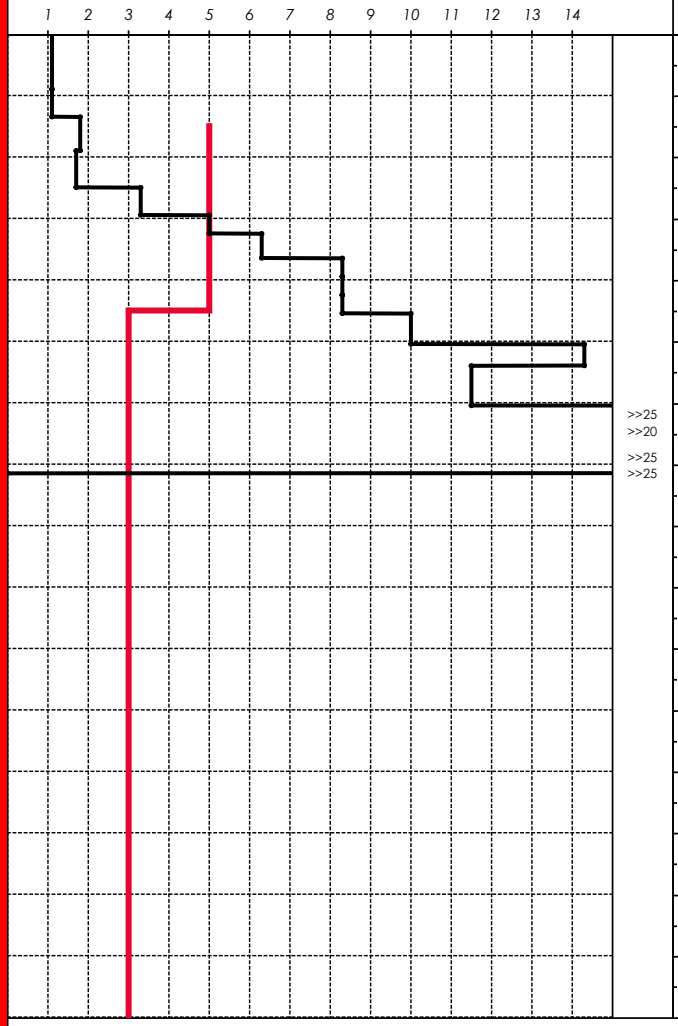
Technical Category: N/A - Rural & Unmapped

Lot: Res 3537 **D.P.:**

Date Tested: 25-Jul-2023

Log Sheet No.: 1 of 1 **Project No.:** 520233

Dynamic Cone Penetrometer (DCP) Test Results



04

Minimum penetration resistance (based on 300mm wide footing founded at 300mm depth) required for 'Good Ground' as defined in the Acceptable Solutions and Verification Methods for NZBC Clause B1 Structure.

Soil Profile

Test Location 04

TS / T	FILL: silty TOPSOIL; dark brow. Moist to wet.
TS	FILL: silty TOPSOIL & GRAVEL; dark brown. Moist to wet.
	Sandy SILT; yellowish grey. Moist to wet.
	Silty medium to coarse SAND; greyish. Wet.
	EOH: 0.9m - Practical refusal on gravels.

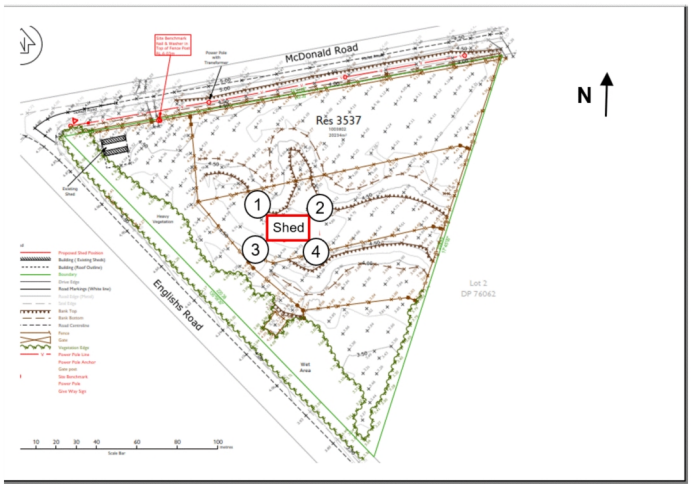
Water

▽ 0.6m

Comments:

Field Staff:	Prepared By:	Soil Profile From:
QJF/BC	QJF	☑ Hand Auger
Job Manager:	**Approved By:**	☐ Spade Hole
DJH	PRS	☐ Test Pit

Site Plan: (Not to Scale)



Note: This record identifies the geotechnical conditions encountered at the noted test location(s) only. It is possible that ground conditions could be different away from the point(s) of testing.

MiTek New Zealand Limited

CHRISTCHURCH
Ph: (03) 348 8691
Fax: (03) 348 0314

AUCKLAND
Ph: (09) 274 7109
Fax: (09) 274 7100

farmbuildings.miteknz.co.nz
email: fbuildings.miteknz@mii.com

Producer Statement - PS1 - Design

ISSUED BY: MiTek New Zealand Limited

TO BE SUPPLIED TO: Selwyn District Council

IN RESPECT OF: Proposed Lean-To Farm Building - FB82472

AT: McDonald Rd, Lincoln

We have been engaged to provide engineering design services in respect of the requirements of Clause B1 of the New Zealand Building Code for

☐ All ☒ Part only as specified: Purlins, Rafters, Girts, Poles, Columns, Trusses if applicable (including fixings as specified), Roof Bracing and Pole embedment

of the proposed building work.

The design carried out by us has been prepared in accordance with Compliance Documents issued by MBIE and Verification Method B1/VM1. The proposed building work covered by this producer statement is described on MiTek New Zealand Limited drawings numbered FB82472

On behalf of the Design Firm, and subject to:

1. Site verification of the following design assumptions:
   - i) Building Importance Level 1 with a 50 year working life (refer to AS/NZS 1170.0:2002)
   - ii) Light roof and no ceiling
   - iii) Modified High Wind Zone
   - iv) Snow Load Sg = 0.9 kPa
   - v) Foundations - undisturbed ground with a minimum ultimate bearing capacity of 300 kPa
   - vi) Refer attached Design Information for other assumptions

2. 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, will comply with the relevant provisions of the Building Code.

b) The persons who have undertaken the design have the necessary competency to do so.

I, In Ling Ng, am a Chartered Member of Engineering NZ and CPEng #146585 and hold the following qualifications BE Civil (Hons). The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than $200,000*.

On behalf of MiTek New Zealand Limited

.....

In Ling Ng
BE (Hons), CMEngNZ, IntPE, CPEng (146585)
Engineering Manager New Zealand

Date: 25 / 07 / 23

NOTE: ANY SUBSTITUTION OR OMISSION OF ANY MITEK PRODUCT SPECIFIED ON THESE PLANS WILL INVALIDATE MITEK'S PS1 FOR THE ENTIRE PROJECT

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.

MiTek New Zealand Limited

CHRISTCHURCH
Ph: (03) 348 8691
Fax: (03) 348 0314

AUCKLAND
Ph: (09) 274 7109
Fax: (09) 274 7100

farmbuildings.miteknz.co.nz email: fbuildings.miteknz@mii.com

DESIGN INFORMATION - FARM BUILDING
FB82472

TIMBER AND GRADES

- Poles : Poles, Outer Zone Density High 450 kg/m³ f_b= 52 MPa, Pole taper 6mm per 1.0m length
- Purlins : Radiata Pine or Douglas Fir - SG8
- Girts : Radiata Pine or Douglas Fir - SG8
- Rafters : LVL Laminated Veneer Lumber hySPAN f_b=50 MPa, E=13.2 GPa Radiata Pine Laminations only
- Moisture content can be green. Our recommendation is 20% or less at time of installation.

DESIGN LOADS

- Dead loads for Light Roof - 0.25kPa (includes weight of purlins, associated framing and galvanized iron roof).
- Live loads - 1.1kN concentrated load, 0.25kPa uniform Load.
- The enclosed documentation has been designed for a Building Importance level 1, with 50 years working life. Refer to AS/NZS 1170.0:2002.
- Wind loads - building designed for a modified High Wind Zone.
- Snow Loads - building designed for Sg= 0.9 kPa(calculated specifically for the job site in this documentation)
- Seismic Zone - 2 (Annual Probability of Exceedance - 1/100)
- Soil conditions:

  All foundations to be into natural undisturbed ground with a minimum ultimate bearing capacity of 300kPa.

  Foundations on ground that has the potential for subsidence, lateral spread, expansive soils and soil instability are outside the scope of this design.

  Effects of liquefaction have not been considered as part of this design.

DESIGN LOAD REFERENCES

Compliance Document for the New Zealand Building Code Clause B1 Structure

NZS3603:1993 Amendment 4	Cited Verification Method
NZS3604 Amendment 2	Cited Acceptable Solution
NZS 1170 Part 0: 2002	Cited Verification Method
NZS 1170 Part 1: 2002	Cited Verification Method
NZS 1170 Part 2: 2011	Cited Verification Method
NZS 1170 Part 3: 2003	Cited Verification Method
NZS 1170 Part 5: 2004	Cited Verification Method
ANSI/TPI1 - 2002	Alternative Solution
Rutledge Method	Alternative Solution - Footing Design for Cantilever Poles.

BUILDING ERECTION

Proper bracing must be installed to hold the components true and plumb and in a safe condition until permanent bracing is fixed. All permanent bracing and fixings must be installed before applying any loads.

LOAD DETAILS

These drawings have been prepared using the above design loads. It is the responsibility of the user to ensure that the design data and loads are still correct at the time of construction.

PRODUCT SPECIFICATION

These details have been designed using specific MITEK®, LUMBERLOK® and BOWMAC®products and the performance of the building and validity of the Producer Statement is reliant on the correct choice of product.

Building Information:

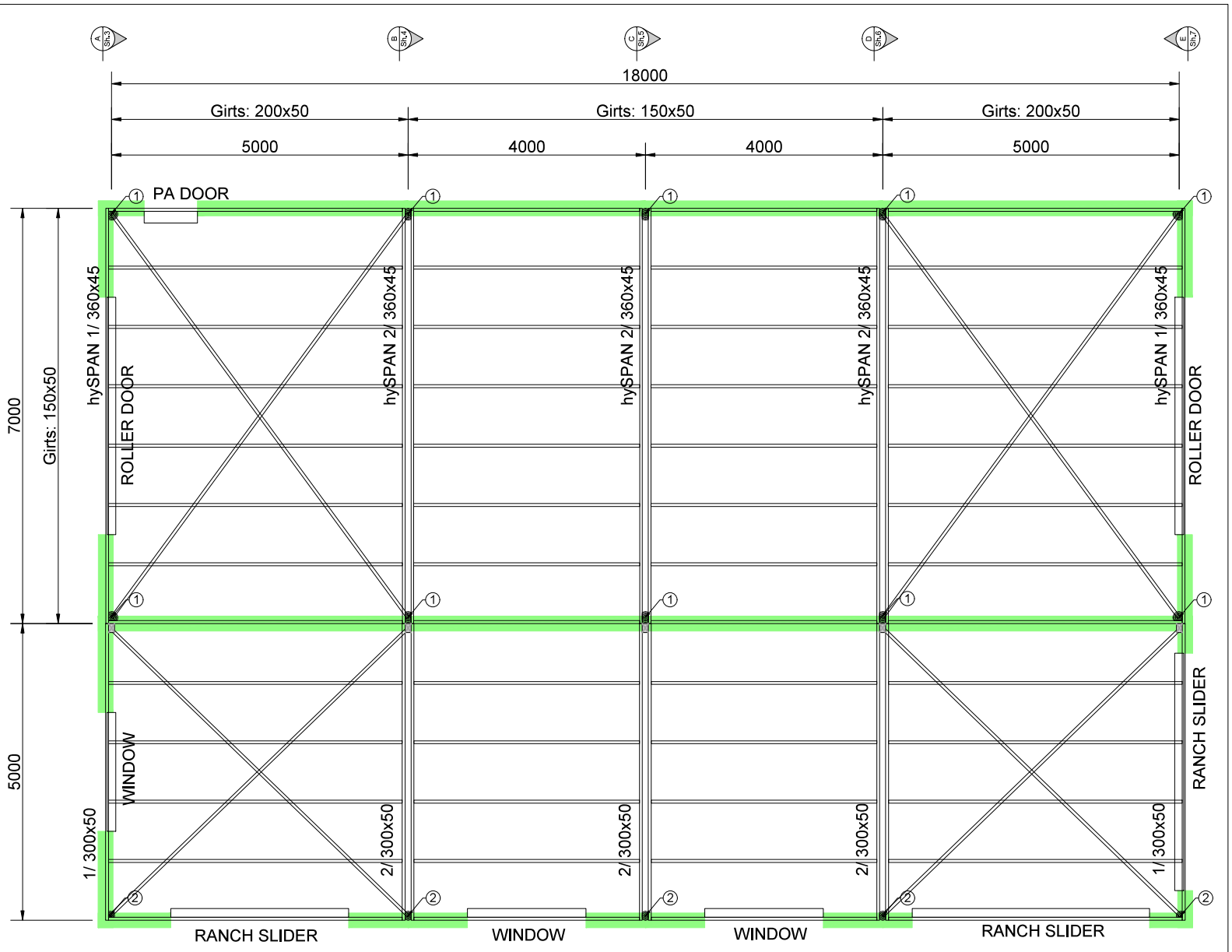
Roof Pitch: 7.3 deg.
Wind Load: High
Snow Load: Sg = 0.9 kPa
Earthquake Zone: 2
Timber Grade: See Design Information
Bay Spacing: See Plans
Purlin Size: 200x50
Purlin Centres: 1000mm
Girt Size: See Plan
Girt Centres: 1010mm
Wind Column Size: NA
Pole Size: 200 SED
Pole Embedment: 1500mm
Rafter Size: See Plan
Rafter Span: 7000mm
Props Required: NA
Max Pole Height: 5400mm
Low Pole Height: 4500mm
Floor Type: Concrete
Front Overhang: None
Rear Overhang: None

Key:

= Clad Walls
= Soldier Strut
= Column
= Pole
= Single Row of Tensioned Multibrace

Notes: Order #: Sheds 1319

Pole Sizes & Embedments:
1=200 SED,1500ED
2=150 SED,1100ED



Sheds 1319

PlaceMakers Know how. Can do. MiTek

Job Name: Paul Campbell
Job Site: McDonald Rd, Lincoln

Client Name: Dave McDonnell
Drawn by: Chris Richards
Date: 25 / 07 / 23
Scale: drawings to scale

Plan

Drawing Number: FB82472
Sheet Number: 1

Notes:

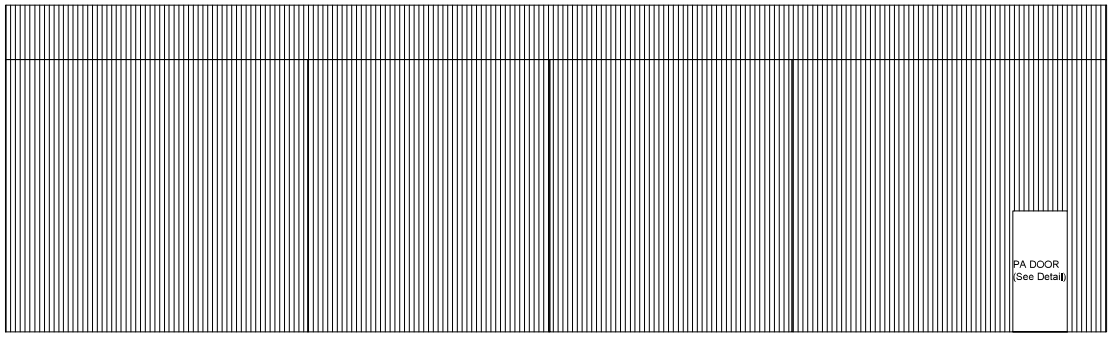
Roofing and Cladding:
Colorsteel Corrugate

Flashings: Barge, Corner, Door, Front of shed,Apron, Vermin, Window.
Covertec #401 Roof Underlay
In Safety Mesh.
Vatergate Plus Building Wrap to Lower Leanto

Polycarbonate Wall Sheets X 4

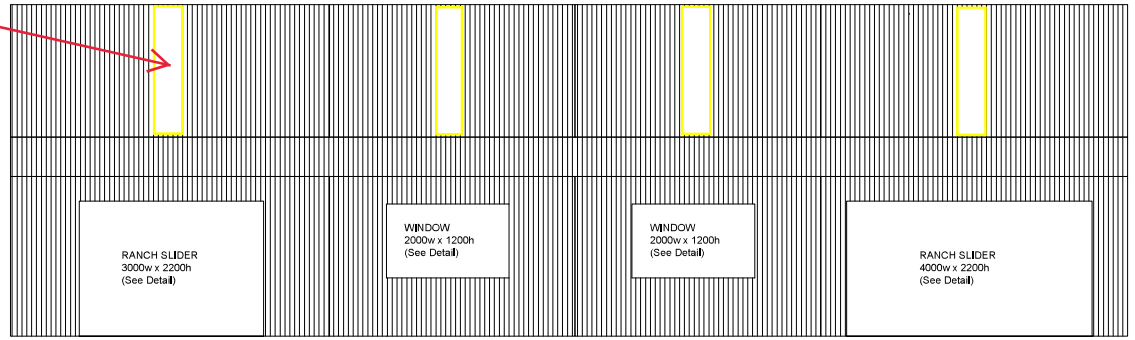
N.B. This design does not include any design or detail for flashing and/or drainage requirements.

Any Concrete Floor shown is indicative only and not required as part of the structural integrity of the Building.

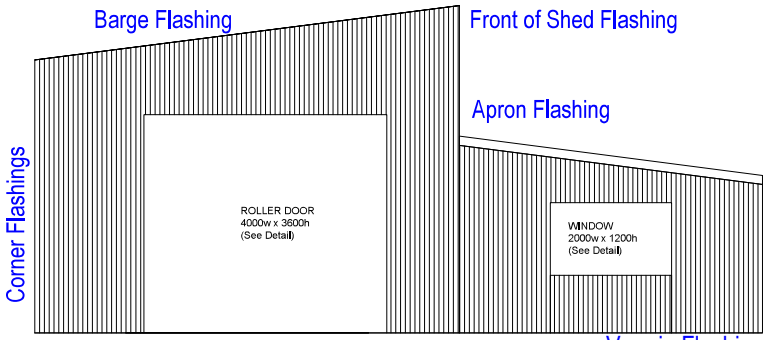


PA Door:
Daylight Opening:
825mm X 2000mm

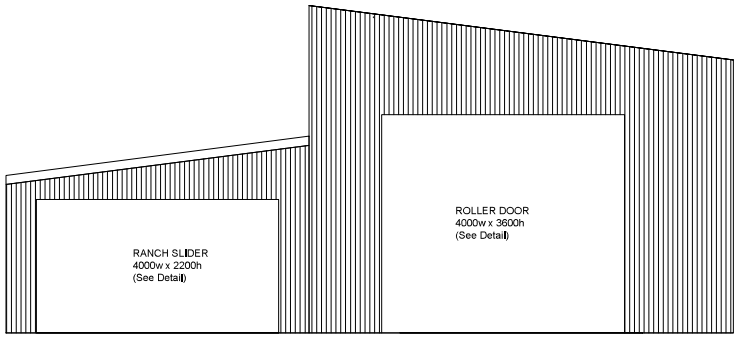
REAR ELEVATION



FRONT ELEVATION



LEFT END ELEVATION



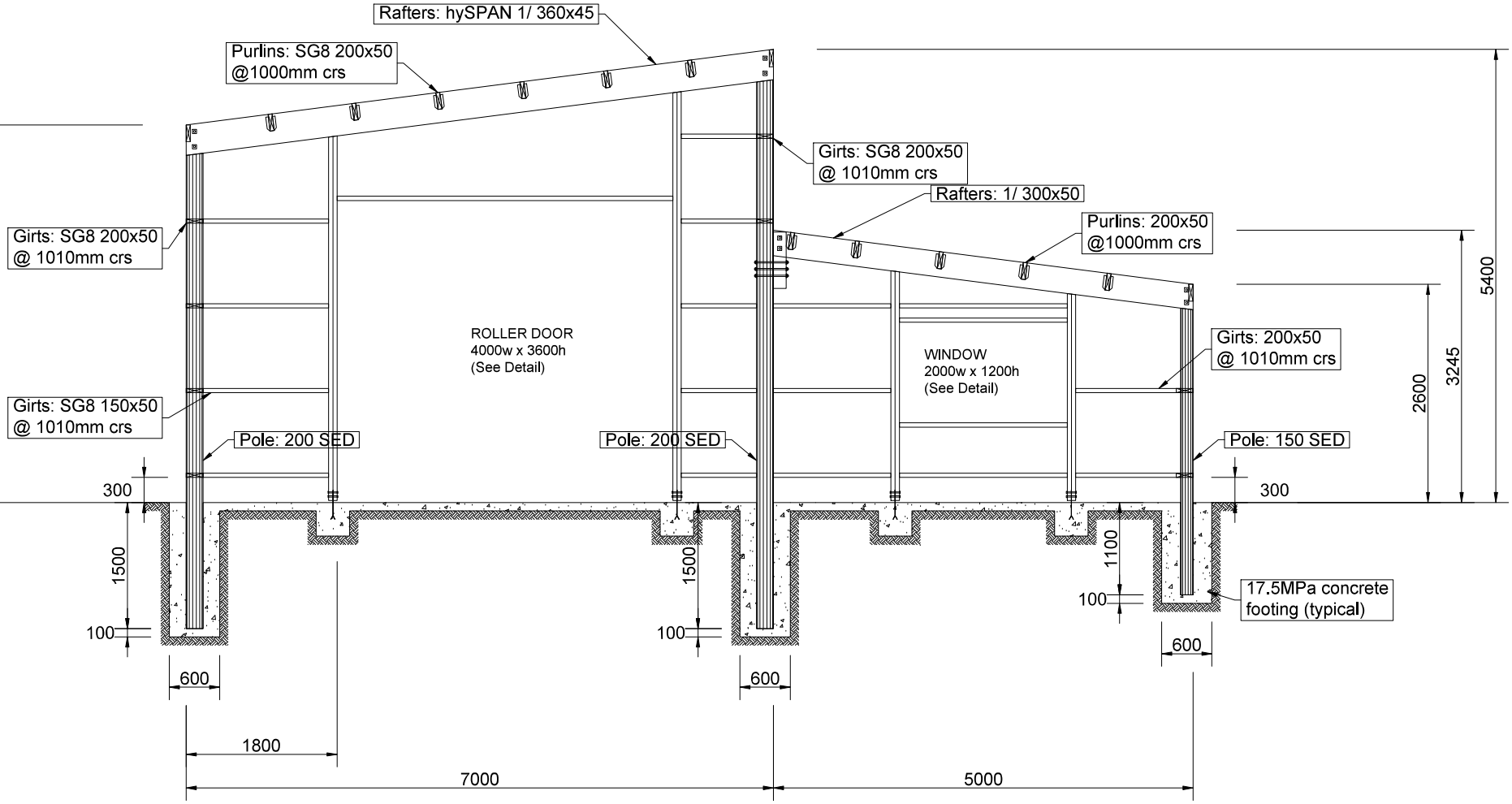
RIGHT END ELEVATION

Sheds 1319

PlaceMakers Know how. Can do. MiTek

Job Name: Paul Campbell Job Site: McDonald Rd, Lincoln		Elevations		Drawing Number: FB82472
Client Name: Dave McDonnell	Drawn by: Chris Richards	Date: 25 / 07 / 23	Scale: drawings to scale	Sheet Number: 2

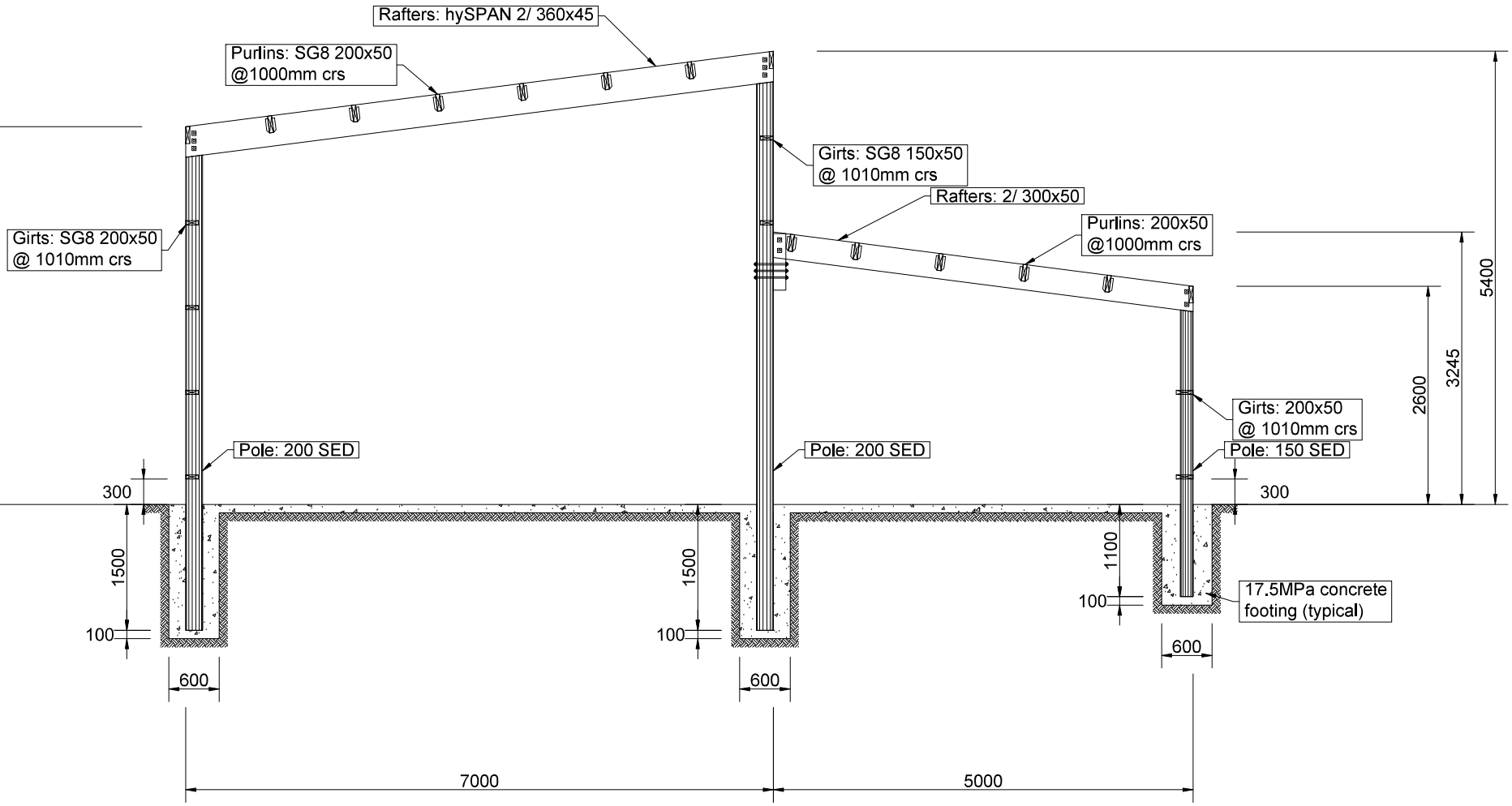
Note: Girt pattern may vary, as long as spacings do not exceed 1010mm.



Pitch: 7.3 deg.

PlaceMakers Know how. Can do. MiTek	Job Name: Paul Campbell Job Site: McDonald Rd, Lincoln		Section A		Drawing Number: FB82472
	Client Name: Dave McDonnell	Drawn by: Chris Richards	Date: 25 / 07 / 23	Scale: drawings to scale	Sheet Number: 3

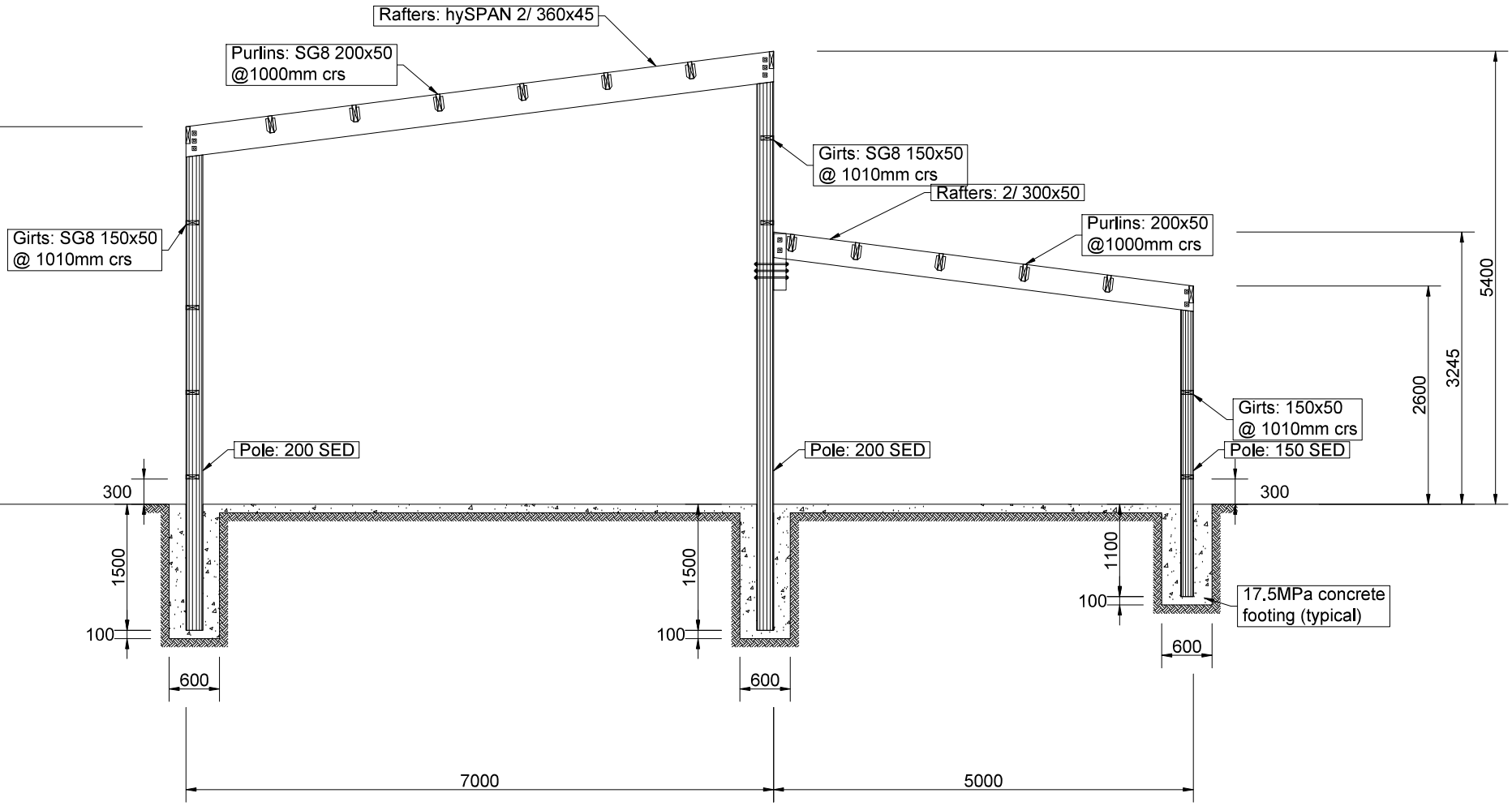
Note: Girt pattern may vary, as long as spacings do not exceed 1010mm.



Pitch: 7.3 deg.

PlaceMakers Know how. Can do. MiTek	Job Name: Paul Campbell Job Site: McDonald Rd, Lincoln		Section B	Drawing Number: FB82472
	Client Name: Dave McDonnell	Drawn by: Chris Richards	Date: 25 / 07 / 23	Scale: drawings to scale	Sheet Number: 4

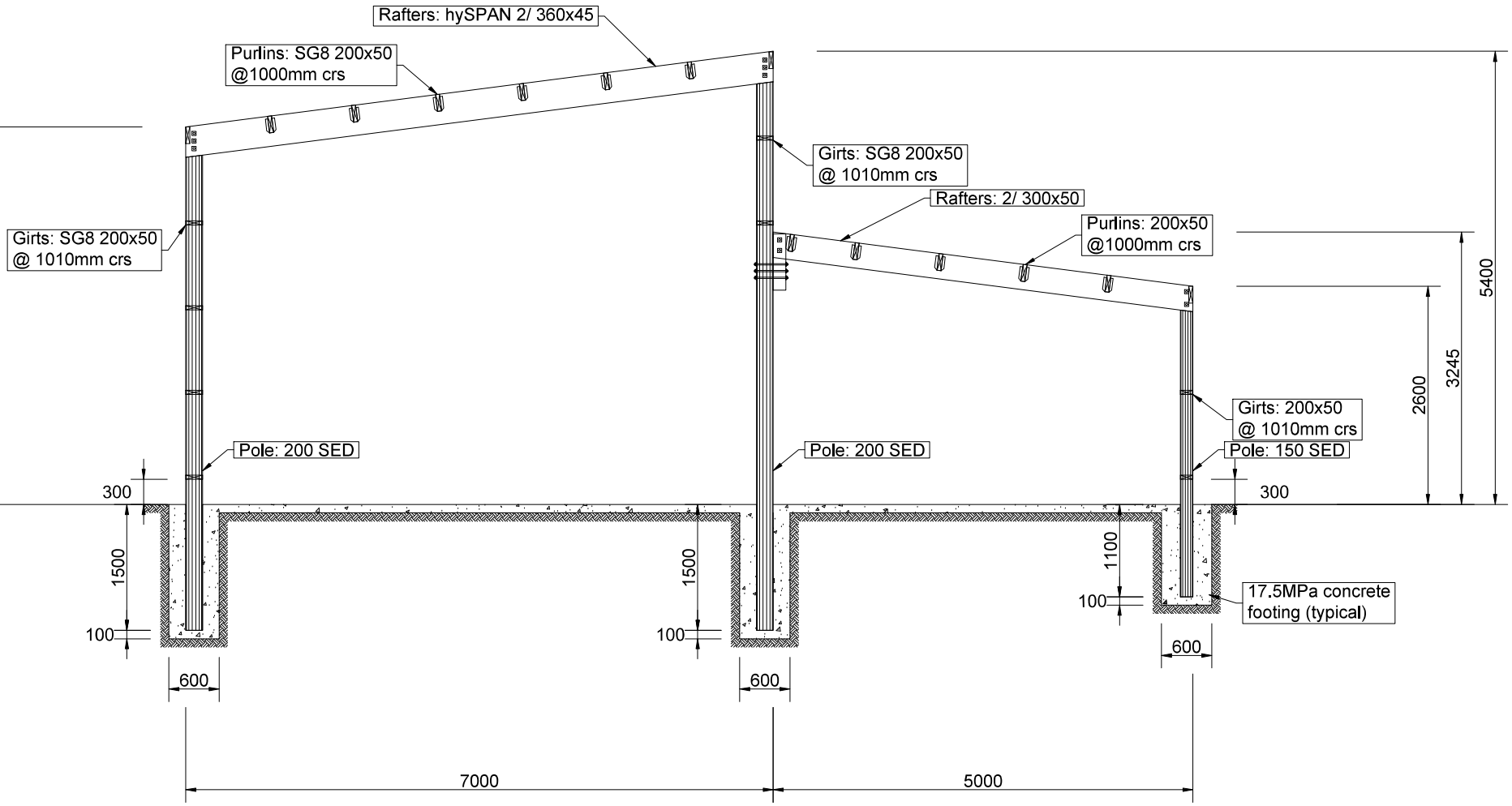
Note: Girt pattern may vary, as long as spacings do not exceed 1010mm.



Pitch: 7.3 deg.

PlaceMakers Know how. Can do. MiTek	Job Name: Paul Campbell Job Site: McDonald Rd, Lincoln	Section C		Drawing Number: FB82472
	Client Name: Dave McDonnell	Drawn by: Chris Richards	Date: 25 / 07 / 23	Scale: drawings to scale	Sheet Number: 5

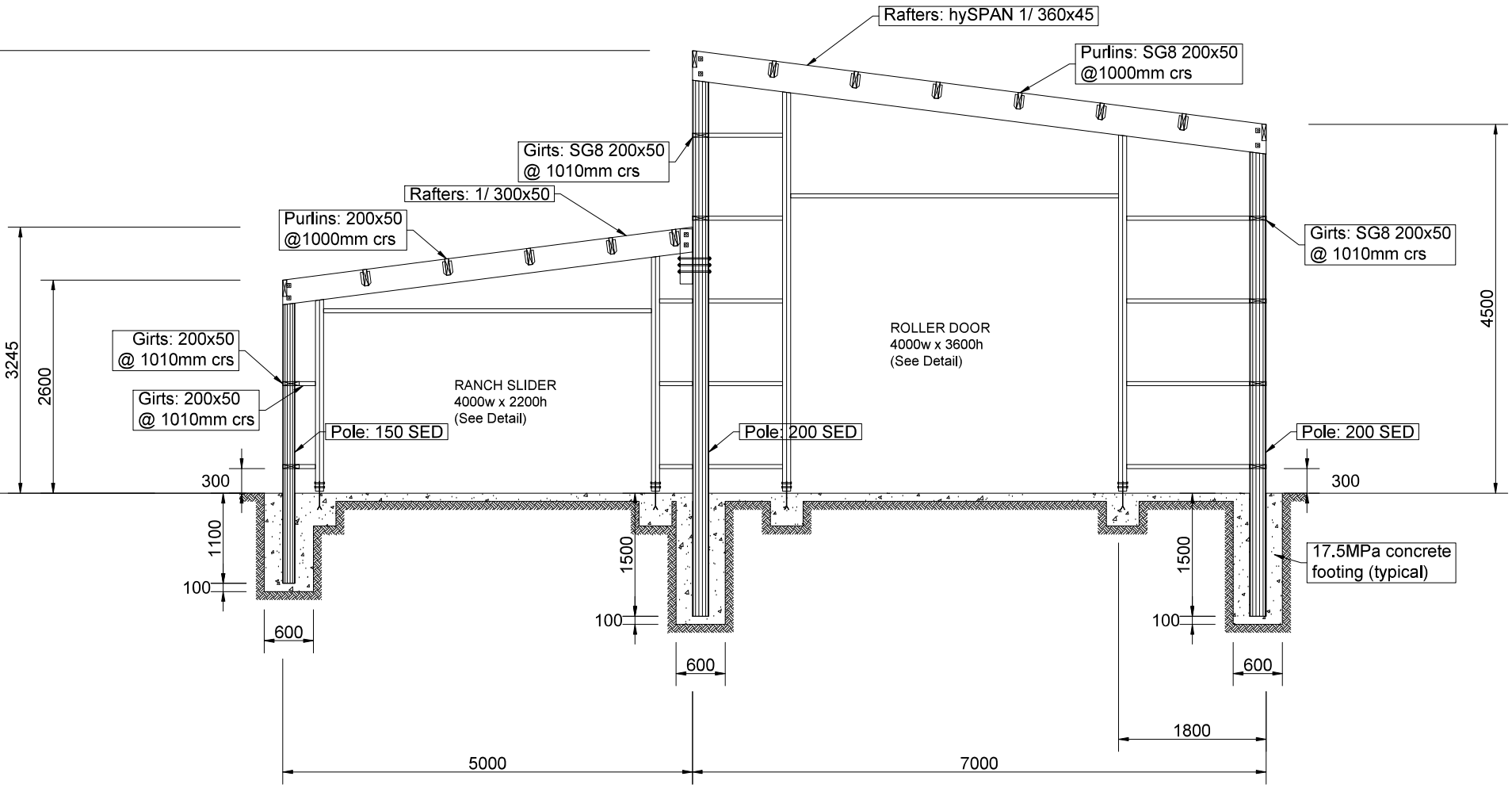
Note: Girt pattern may vary, as long as spacings do not exceed 1010mm.



Pitch: 7.3 deg.

PlaceMakers Know how. Can do. MiTek	Job Name: Paul Campbell Job Site: McDonald Rd, Lincoln		Section D	Drawing Number: FB82472
	Client Name: Dave McDonnell	Drawn by: Chris Richards	Date: 25 / 07 / 23	Scale: drawings to scale	Sheet Number: 6

Note: Girt pattern may vary, as long as spacings do not exceed 1010mm.



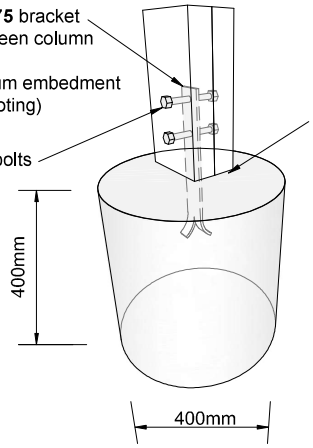
Pitch: 7.3 deg.

PlaceMakers Know how. Can do. MiTek	Job Name: Paul Campbell Job Site: McDonald Rd, Lincoln	Section E		Drawing Number: FB82472
	Client Name: Dave McDonnell	Drawn by: Chris Richards	Date: 25 / 07 / 23	Scale: drawings to scale	Sheet Number: 7

1/ BOWMAC **B75** bracket positioned between column members.
(150mm minimum embedment into concrete footing)

2/**M12** bolts

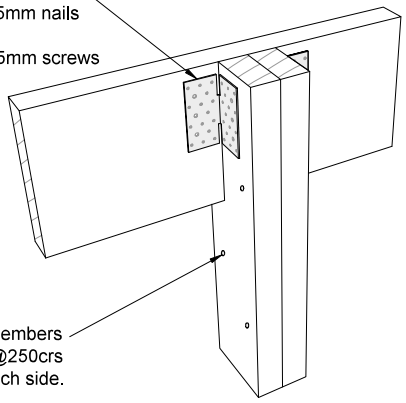
DPC underneath column end is recommended



DOOR / WINDOW COLUMN FOOTING

DW01

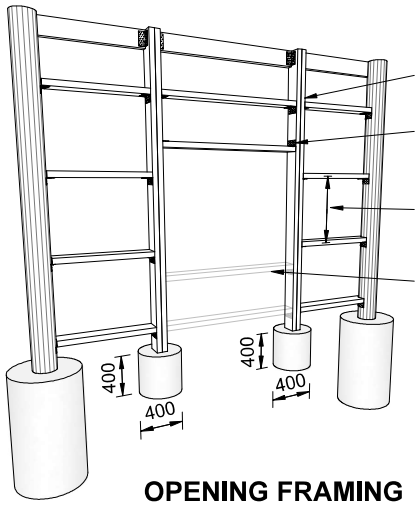
2/ LUMBERLOK **Girt Plate**
Fix with 6/ 30x3.15mm nails
or
3/ Type 17-12gx35mm screws per flange



Fix both column members with 90mm nails @250crs staggered from each side.

DOOR & WINDOW COLUMN FIXING

DW02



Opening Column

Position Girtplates above door header

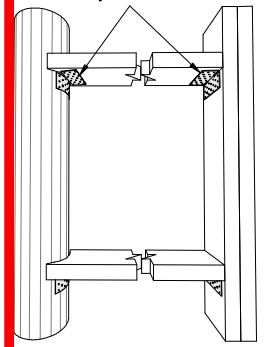
See sections for girt spacings

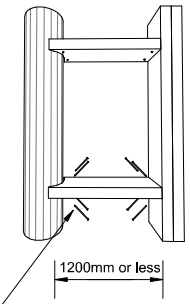
For window framing, use girts as required.

OPENING FRAMING

DW03

Girt connected to pole or column with LUMBERLOK **Girt plate** (x1 each end)
Fix with 6/ 30x3.15 nails per flange
or
3/Type 17-12g x 35mm screws per flange.
Girt Plates may be fixed above or below girt.



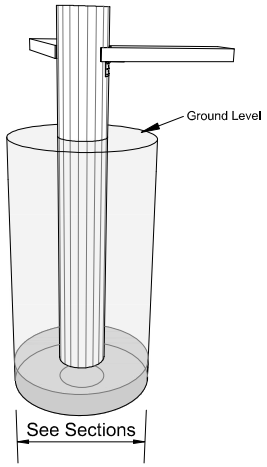


Girts spanning less than 1200mm may be skew-nailed to pole/column using 4/90mm nails each end. This is at the builders descretion.

OPENING FRAMING FIXING

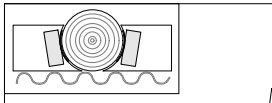
DW04

ED
EMBEDMENT **D**EPTH
(Ground level to underside of pole)

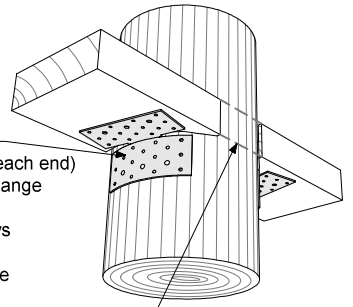


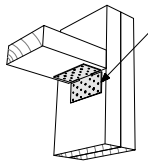
POLE FOOTING

LT12



Girt connected to pole with LUMBERLOK **Girt plate** (x1 each end)
Fix with 6/ 30x3.15 nails per flange
or
3/Type 17-12g x 35mm screws per flange.
Girt Plates may be fixed above or below girt.





Use the same fixing detail for Intermediate columns

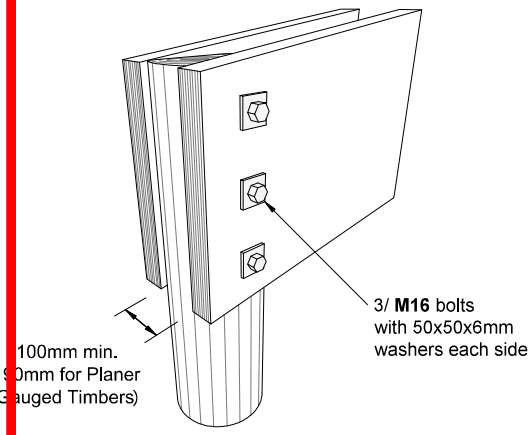
Align Girts flush with outside edge of pole
Cut girts to suit
Do Not Check Girts Into Pole!

GIRT FIXING DETAIL

RF09

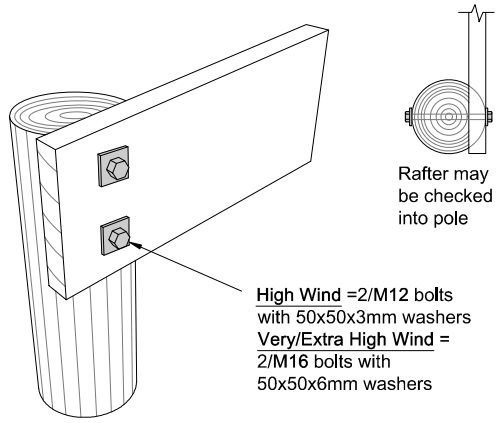
PlaceMakers Know how. Can do. MiTek

Job Name: Paul Campbell Job Site: McDonald Rd, Lincoln		Details		Drawing Number: FB82472
Client Name: Dave McDonnell	Drawn by: Chris Richards	Date: 25 / 07 / 23	Scale: drawings to scale	Sheet Number: 8



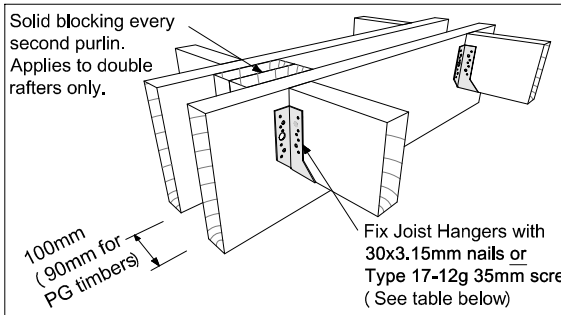
DOUBLE LVL 3 BOLT FIXING

LV02



SINGLE RAFTER BOLT FIXING

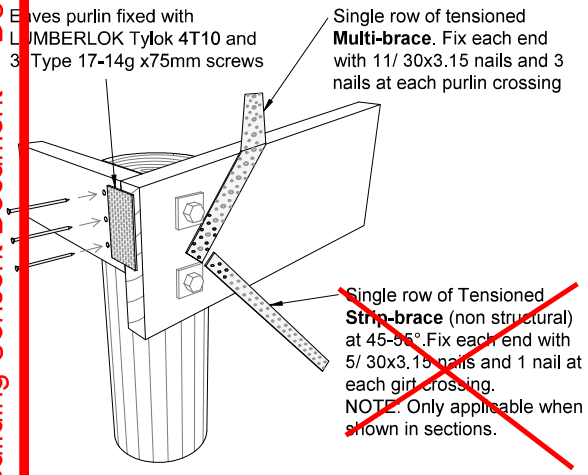
RF01



Purlin Size	LUMKBERLOK Joist Hanger	No. of Nails per flange	No. of Screws per flange
140/ 190x45	JH 47x120	4	2
150/ 200x50	JH 52x120		
240/ 290x45	JH 47x190	6	3
250/ 300x50	JH 52x190		

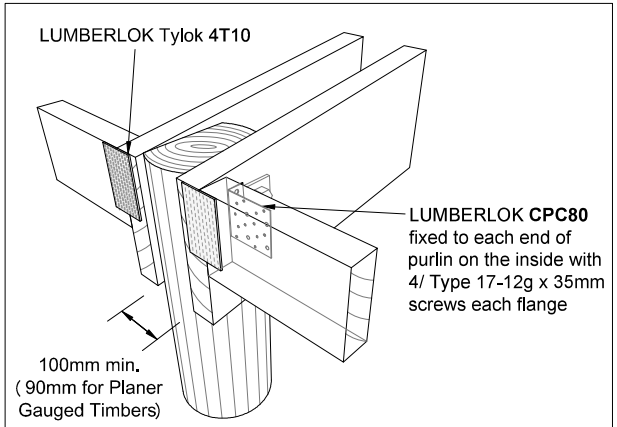
PURLIN FIXING & BLOCKING

RF08



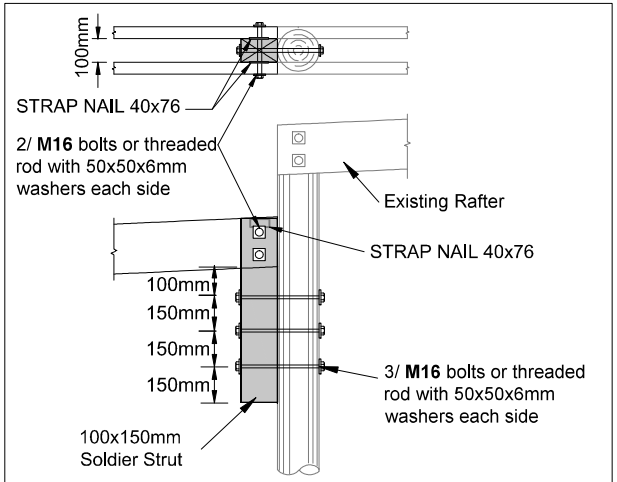
FLUSH PURLIN & BRACING FIXING

RF10



PURLIN FIXING - CLOSED BAY

RF11



SOLDIER STRUT / RAFTER FIXING

SS06

PlaceMakers Know how. Can do. MiTek

Job Name: Paul Campbell

Job Site: McDonald Rd, Lincoln

Details

Drawing Number: FB82472

Client Name: Dave McDonnell

Drawn by: Chris Richards

Date: 25 / 07 / 23

Scale: drawings to scale

Sheet Number: 9

30 McDonalds Rd

Lincoln

Pole Shed Material Specifications

Materials must be supplied by:

PlaceMakers Ashburton (designer and specifier)

Roofing and Cladding – Corrugated Colourstel

Screw Fixing Patterns – High wind Zone

Flashings – Barge, Corner,Door,Apron,Window

Front Of Shed

Timber

Notes:

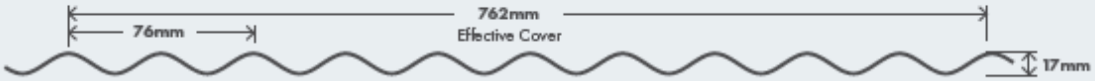
All Bolts, MiTek Components and screws: H.D.Galv

Wall Cladding to be 50mm clear of ground

Stormwater to be contained on site, over 40m

To closest boundary.

CORRUGATE



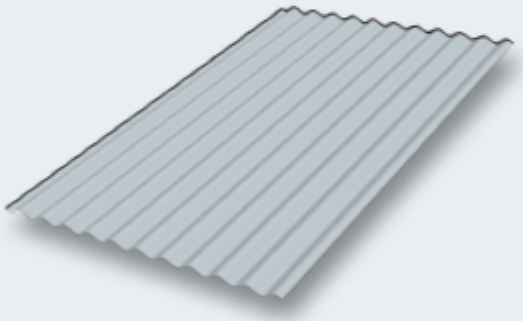
All profile dimensions are nominal

Versatile
Corrugate can be used either vertically or horizontally as a cladding and is ideal for feature walls, fences and screens.

Long Run
Modern roll forming technology allows Corrugate roofing and cladding to be manufactured in continuous lengths.

Colour Choice
A wide range of standard colours is available with additional colours and coatings available on request.

Curving
Corrugate is ideal for roll curving when manufactured from .55mm G300 steel. It can be machine rolled to a minimum inside radius of 400mm for a variety of uses e.g barrel ridges, corners on horizontally clad walls, or bull nose curves.



MATERIALS & DURABILITY

Corrugate is available in:

	Thickness (BMT)	
Colorsteel®	.40mm G550	.55mm G300 + G550
Zincalume®	.40mm G550	.55mm G300 + G550
Galvsteel™	.40mm G550	.55mm G300 + G550
Aluminium (plain & prepainted)	.70mm	.90mm

Also available in other non-ferrous metals.

Various types of coatings are available to suit all environments including industrial and coastal conditions.

For optimum performance, the severity of the environment in which the cladding will be installed should determine both the metal and type of coating to be used.

DESIGN REQUIREMENTS

The minimum pitch for Corrugate is 8°.

Corrugate will spring curve to a minimum radius of 12m for .40mm BMT G550.

Specifications and product performance statements for specific projects are available upon request prior to project commencement.

ROOFING ACCESSORIES

A full range of accessories including rainwater goods, flashing, underlays, fasteners and matching translucent sheeting are available.

For additional information please refer to:
- *New Zealand Steel Installers Guide*
- *New Zealand Steel Specifiers & Builders Guide*
- *New Zealand Steel Metal Roof and Wall Cladding Code of Practice*

MAINTENANCE

To Prevent the accumulation of dirt or other material not removed by rain, manual washing is required.

Recommended washing frequency based on environment:

	Environmental conditions	
	Severe	Moderate
Cladding	Every 6 months	Every 12 months
Sheltered Areas*	Every 3 months	Every 6 months

**Areas that do not receive adequate rain washing e.g. soffits, wall cladding under eaves, underside of gutters, fascias, sheltered areas of garage doors, unwashed roof areas.*

Surfaces should not be in continuous contact with moisture and all debris must be removed (applies mainly to gutters).

With the first sign of surface corrosion the affected are should be cleaned, spot primed and repainted. Any fixings that have deteriorated to a point where leakage is evident should be replaced.

Fading will occur over time. Periodic over-painting will be necessary to retain aesthetic value.

WARRANTY

Corrugate is covered by warranty for:

- Coating performance
- Corrosion resistance
- Substrate integrity

Warranty is subject to the use of the appropriate product for the environment.

A written warranty is available on request.

MAXIMUM SPAN

For 1.1kn Concentrated Load for G550 Steel

Location of span	Thickness (BMT)	
	.40mm	.55mm
Roof End Span	700	1000
Roof Intermediate Span	1000	1500
Wall End Span	1200	1700
Wall Intermediate Span	1800	2400

Single spans should be limited to 80% of the above end spans.

Purlin spacing should be reduced in high traffic areas or areas supporting items such as air conditioning units or walkways that are provided for maintenance.

FASTENINGS

Recommended roof fasteners:

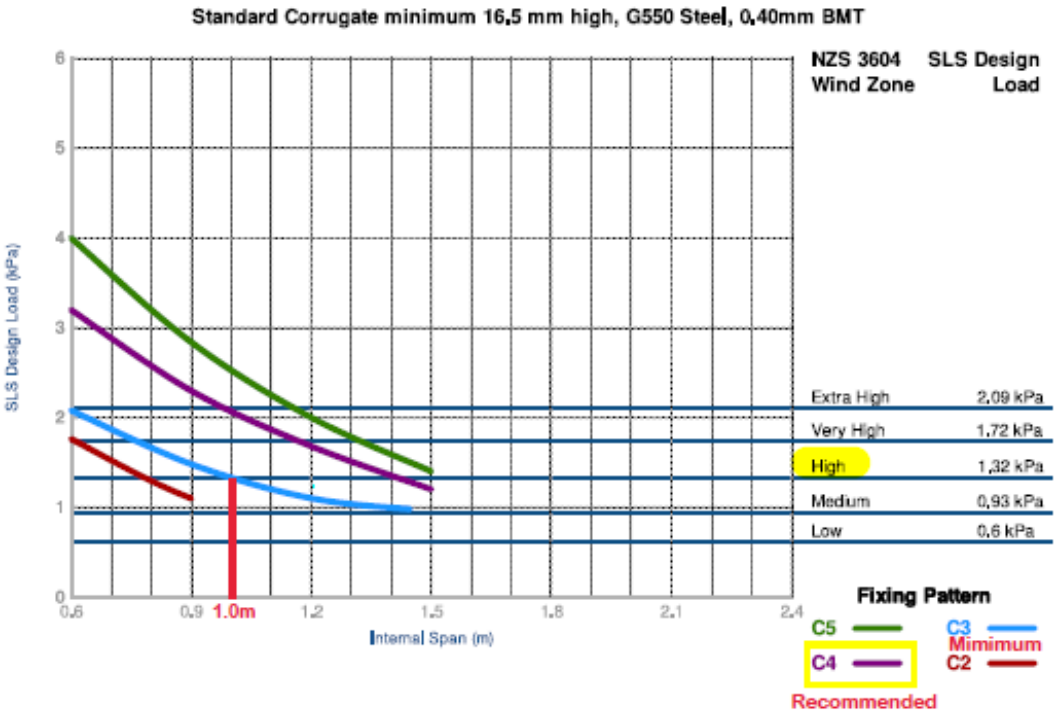
Nails	60mm
Timbertites	12g x 50mm
Steeltites	12g x 35mm

Wall fastenings also available. The fastener and its coatings must be compatible and suitable for environment and roofing product.

SHEET COVER

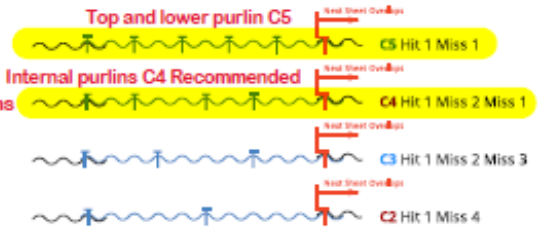
1 x Sheet	838mm
2 x Sheet	1600mm
3 x Sheet	2362mm
4 x Sheet	3124mm
5 x Sheet	3886mm
6 x Sheet	4648mm
7 x Sheet	5410mm
8 x Sheet	6172mm
9 x Sheet	6934mm
10 x Sheet	7696mm

3.16.5.1 Corrugated Steel – 0.40



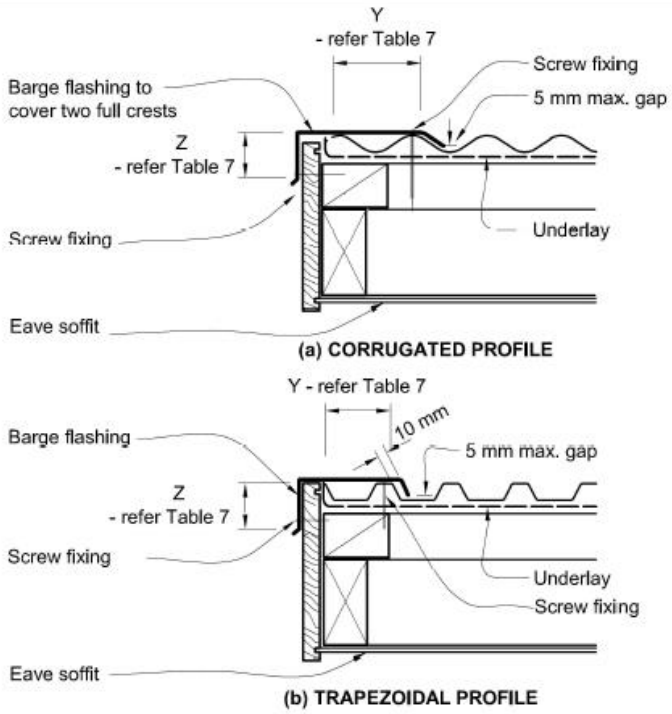
Recommended Point Load Limit		Span
Type A	Unrestricted Access	N/A
Type B	Restricted Access	0.9 m

For Pole Sheds we recommend C4 for Internal Purlins



Fixings to be:
Roof: 55mm #12 Gauge Tek Screw with Neo Crest Fixed
Walls: 55mm #12 Gauge Tek Screw with Neo Crest Fixed
25mm #12 Gauge Tek Screw with Neo Valley Fixed

Figure 47: Barge flashings for profiled metal
Paragraphs 8.4.11, 8.4.12, Table 7



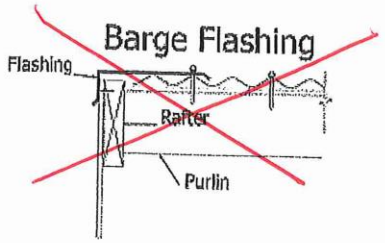
Amend 2 Jul 2005

Amend 2 Jul 2005

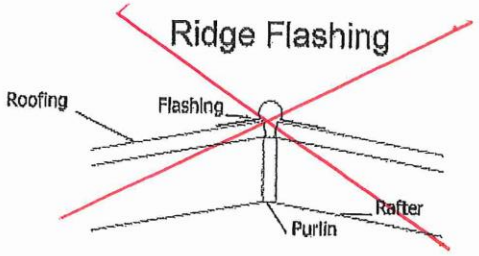
Y = 2 Corrugations
Y - 2 Ribs (or turn up plus 1 Rib as per detail)

Z - 70 mm in High and Very High Wind Zones
Z - 90 mm in Extra High Wind Zone

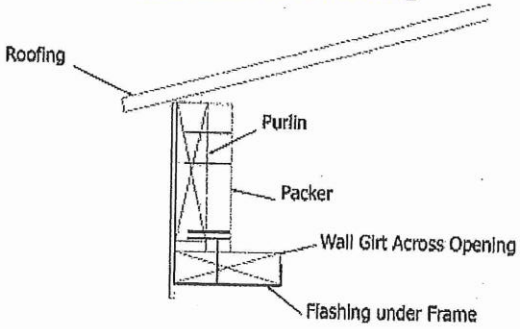
Barge Flashing



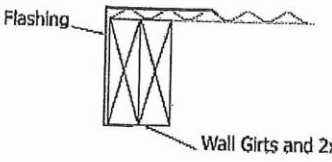
Ridge Flashing



Door Head Flashing



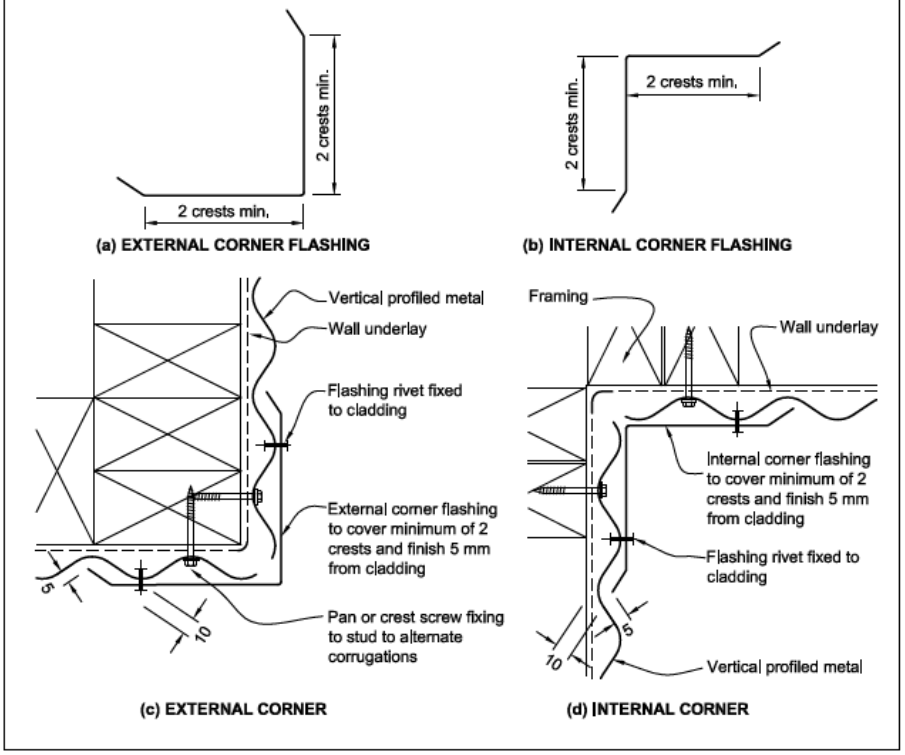
Door Side Flashing



Flashing to cover 2 corrugations or 2 Ribs

MiTek New Zealand Ltd. HOME OF GANG-NAIL® BUILDING SYSTEMS	Job Name: Job Site:	Flashing Details		Job Number: FB
	Client Name:	Client Reference Number:	Detailed by: Checked by:	Date: Scale: NTS	Sheet Number: 9

Figure 94: **Corners for vertical profiled metal**
Paragraph 9.6.8.4

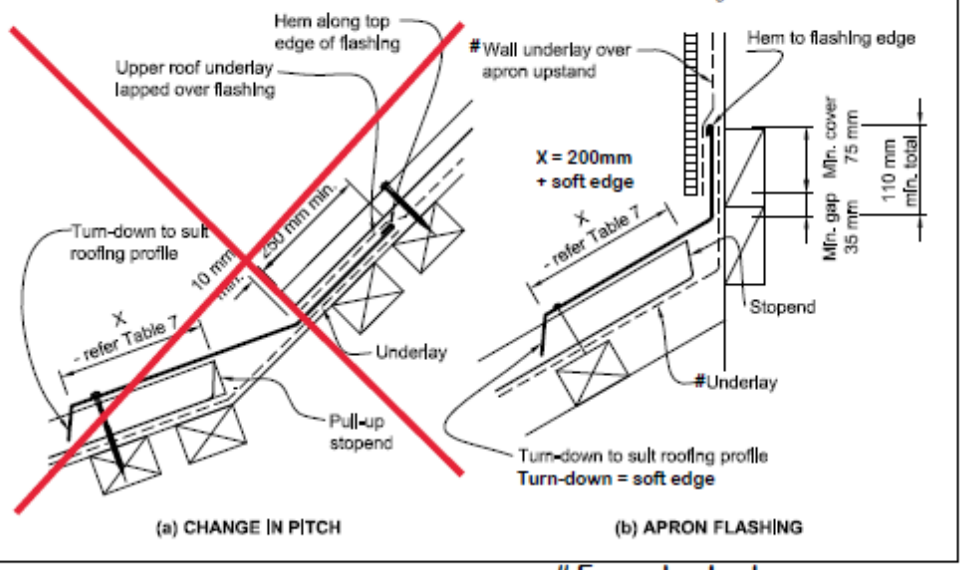


Amend 5
Aug 2011

Amend 2 Jul 2005

Figure 44: **Apron flashing and change in pitch for profiled metal**
Paragraphs 4.5, 8.4.11, 8.4.12, Table 7

NOTE: X – variable according to *wind zone* – refer Table 7.



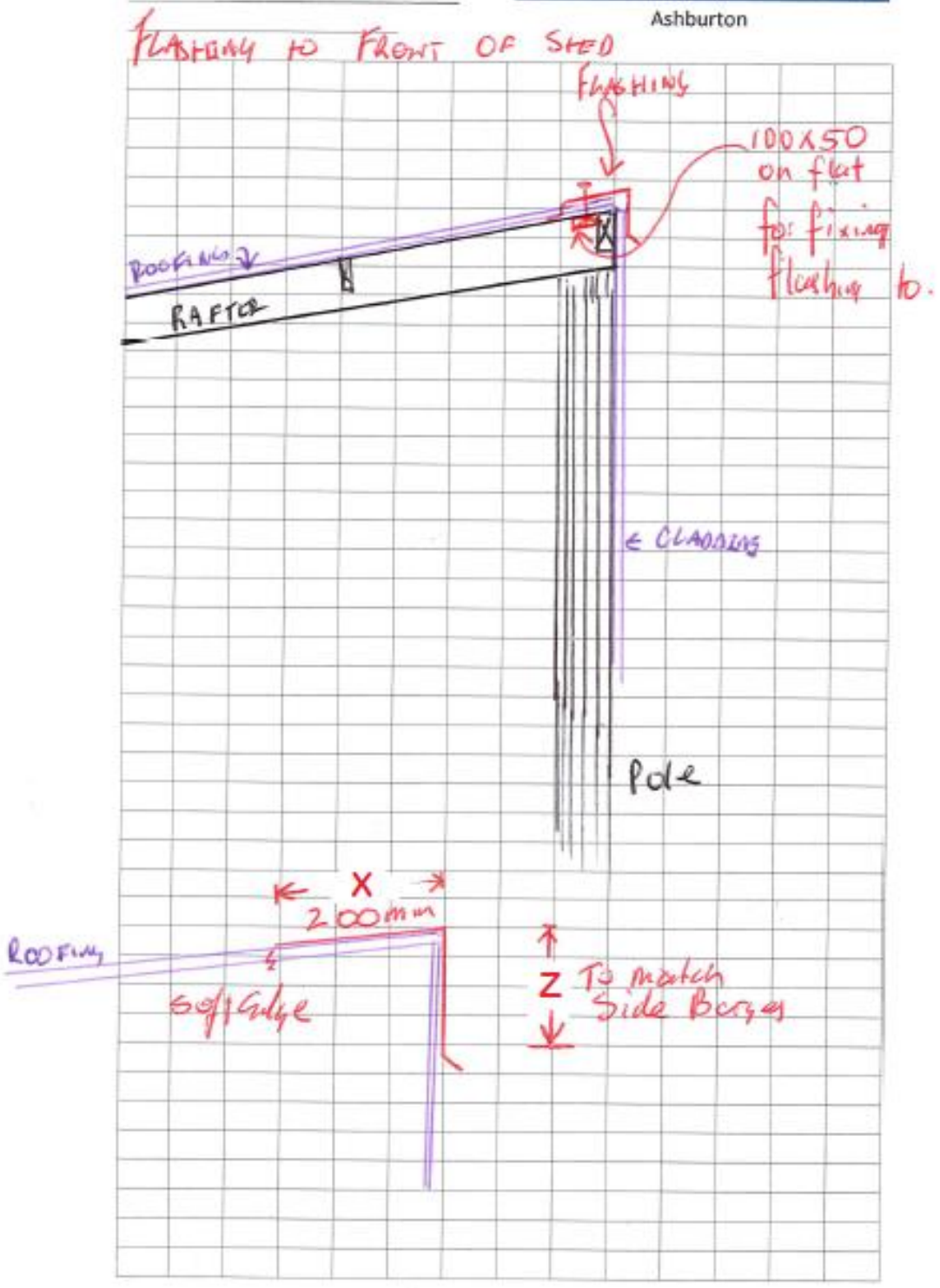
Amend 2 Jul 2005

Amend 5 Aug 2011

For pole sheds:
Underlay not be required

Site: _____

PlaceMakers
Know how. Can do.
Ashburton

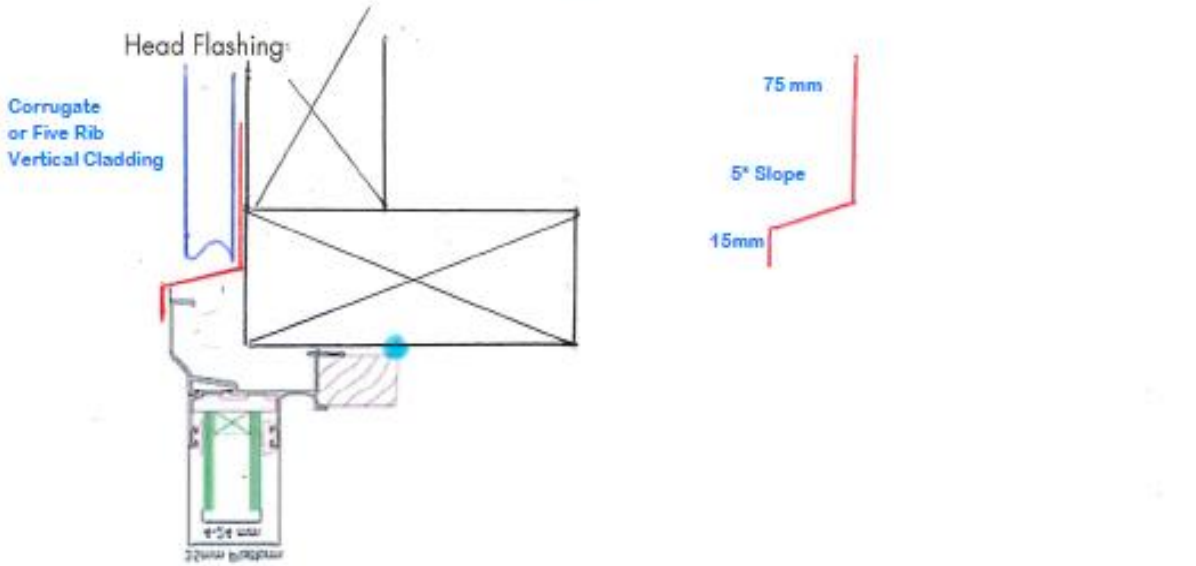


X = 200mm + soft edge
Z = To match side barge
OR: 70mm High / Very High Wind Zone
90mm Extra High Wind Zone

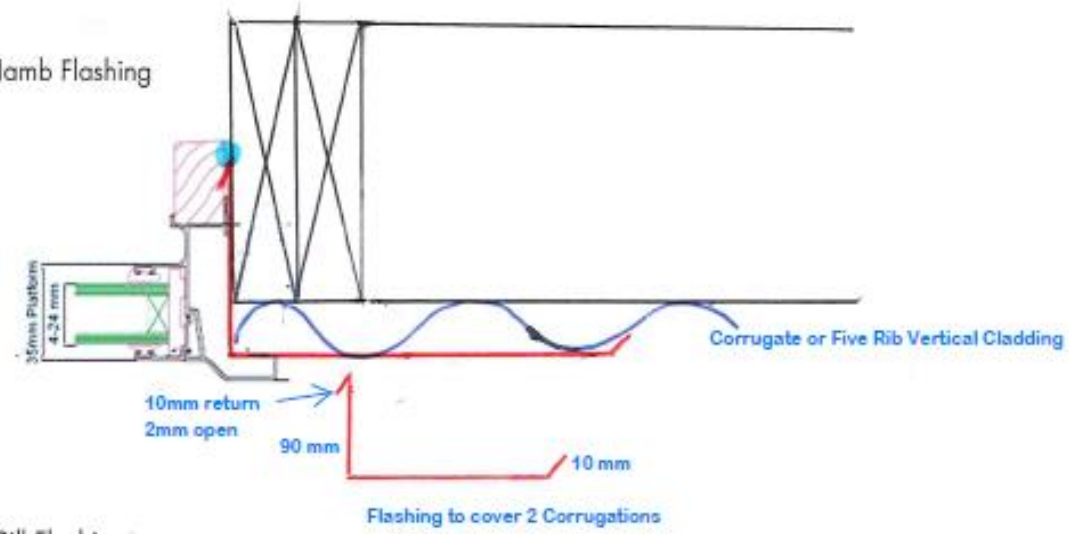
WINDOW FLASHINGS

= P E F Rod as air seal

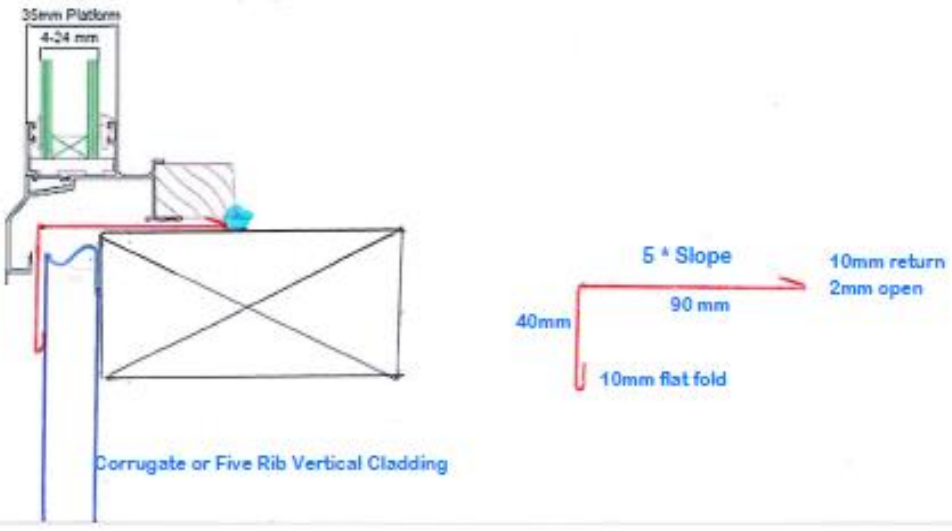
Head Flashing



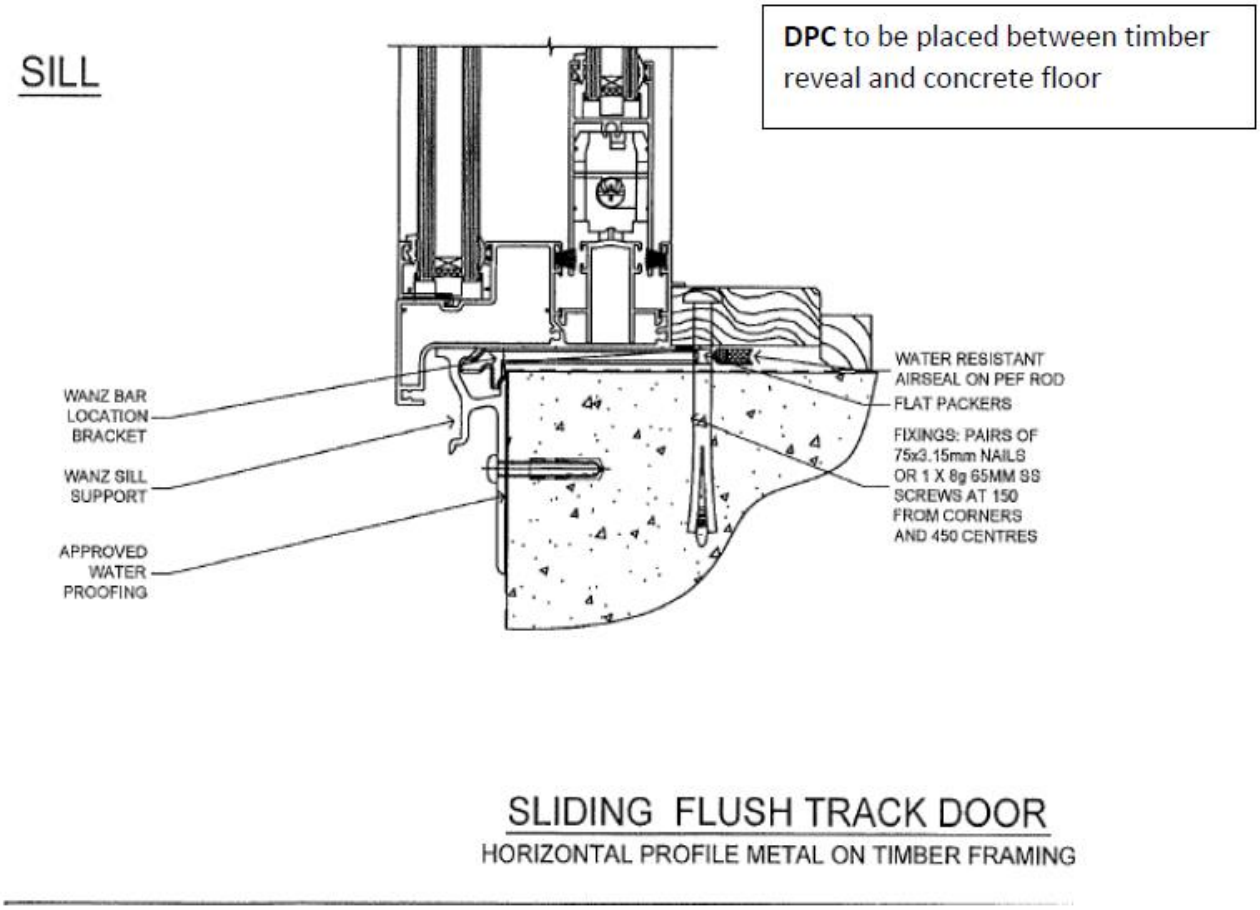
Jamb Flashing



Sill Flashing



Ranch Slider - Sill Detail



Floor to be: 100mm Thick Concrete, Reinforcing mesh, 200Mu polythene

No reinforcing rods required as floor is "non-structural" when used in a pole shed

DURABILITY:

The timber treatment specification is to be in accordance with NZS 3602:2003, NZS 3640:2003 and any specific requirements of the relevant Building Consent Authority (BCA)
Where fixings are to be used in locations that could be exposed to regular wetting and on timber treated to a minimum of H3.2, our recommendation is to seek clarification from the relevant BCA.
In sea spray areas as defined in NZS3604:2011, it is recommended to seek clarification from the relevant BCA regarding any additional protection where fixings are exposed to the presence of windblown salts.

TIMBER TREATMENT SCHEDULE (To be completed by the Building Consent Applicant):

Wood-based building component	Tick if Applicable	Species or Type	Level of Treatment to NZS 3640 or AS/NZS 1604[3]
Purlins (components supporting roofing material)		Internal : N Z Oregon SG8 Exposed: Pinus Radiata SG8	Untreated H3
Rafters (component supporting the purlins)		Internal : N Z Oregon SG8 Exposed: Pinus Radiata SG8	Untreated H3
Poles (rounded –typically embedded into ground)		Pinus Radiata	H5
Posts (rectangular –embedded into ground)	N/A		
Posts (rectangular –fixed to surface)	N/A		
Girts (structure supporting wall cladding)		N Z Oregon SG8	Untreated
Props (component supporting the rafter)		Internal : N Z Oregon SG8 Exposed: Pinus Radiata SG8	Untreated H3
Blocking (component separating the rafter)		N Z Oregon	Untreated
Plywood Gusset (component joining rafter – rafter)		Pinus Radiata	Untreated
Trusses (structure supporting roofing material)	N/A		
T-Stiffener (component under bottom chord of truss)	N/A		
Purlin Panel and Bottom Chord Brace (structure linking trusses-purlins and trusses-trusses)	N/A		

GOLDPINE

23 March 2018

Placemakers Ashburton
115 Alford Forest Road
Ashburton

Letter of Compliance

In relation to the poles and piles have and yet to be supplied to Placemakers Ashburton for use in the Canterbury region, Goldpine can confirm that:

1. The poles and piles supplied will have been produced in accordance with NZS3603:1993. The poles and piles supplied will meet the quality requirements of NZS3605:2001 and will be within the high density category of NZS3603, as evidenced by Goldpine's testing regime and through being sourced from proven high density forests.

2. The poles supplied will have been treated in accordance with NZ3640:2003 to meet the requirements of the H5 hazard classification. The poles carry the WOODmark® symbol, the independent quality assurance brand for timber treatment from the New Zealand Timber Preservation Council.

Please do not hesitate to contact me on 03 543 8067 or barrydavies@goldpine.co.nz if you have any questions regarding this letter.

Yours faithfully

Barry Davies
Finance & Commercial Manager

18 Oxford St
PO Box 3331
Richmond 7050
Nelson, New Zealand
Telephone: 64 3 543 8008
Facsimile: 64 3 543 8050
Email: sales@goldpine.co.nz
www.goldpine.co.nz

Thermakraft 401 - Technical Specification

Breathable | Absorbent | Non Woven | Roof Underlay

Thermakraft 401 can be used as a roof underlay on timber and steel framed buildings within the following scope:

- The scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- With masonry tile roof cladding; and
- With metal tile and profiled metal roof cladding; and,
- Situated in NZS3604 Wind Zones up to, and including Extra High).
- Self-supporting when run horizontally at pitches ≥3° When run vertically at pitches ≥3° <10° support is required, at 10 degrees or greater, support not required when run vertically up to spans of 1200mm max.
- Must be supported if run vertically below 10°. Minimum roof pitch 3°.
- Refer BRANZ Appraisal No. 943 [2016] for full details.

Flammability Index

Thermakraft Covertek 401 is not rated as fire retardant. Covertek is recommended where fire retardant underlay is required.

Limitations

Thermakraft 401 is not suitable fro use where an underlay with a flammability index of 5 or less is required.

NZBC

Contributes to meeting the Performance Requirements of NZBC Clauses B2, Durability (B2.3.1 (a) 50 years, B2.3.1 (b) 15 years and B2.3.2), E2 External Moisture E2.3.2), and F2 Hazardous Building Materials F2.3.1, providing;

- It is not damaged
- Is installed in accordance with instructions
- Is not left exposed for more than 7 days (roof), same day coverage recommended.
- Is installed by or under guidance of Licensed Building Practitioners
- Is compatible with cladding system used.

Table 1: NZBC E2/AS1 (NZS2295) roof underlay requirements

NZBC E2/AS1 TABLE 23 (NZS2295) WALL UNDERLAY PROPERTIES	PROPERTY PERFORMANCE REQUIREMENTS	PROPERTY PERFORMANCE
Absorbency	≥ 150gsm	Pass
Vapour Resistance	≤ 7 MN.s/g	Pass
pH of Extract	≥ 5.5 and ≤ 8	Pass
Shrinkage	≤ 0.5%	Pass
Water Resistance	≥ 100mm	Pass

Roll Dimensions

WIDTH (MM)	LENGTH (M)	M²
1350	55	75

Available cut to length, conditions apply.

M² is the roll size for actual coverage, allow for laps and joins.

Control of Condensation

In climatic regions where condensation risks are high, such as cold or high humidity areas, care needs to be taken in specifying the correct design and installation to prevent moisture build-up in the roof cavities.

Factors which adversely affect the condensation risk in roofing systems include;

- Humid, and/or cold climatic regions.
- Warm/Skillion roof construction.
- Low roof cavity air volume and restricted air movement.
- Omitting Vapour Control Layers.
- Ceiling penetrations and entry of warm air into roof cavities.
- Occupancy activities which have high moisture loading on conditioned spaces.
- Low pitched roof.
- Bulk insulation.
- Building structures ability to naturally dry construction moisture.

Skillion and Warm Roof Construction are particularly sensitive to moisture accumulation and the design and installation of roof construction needs to take into account the higher condensation risks. Refer MRM Code of Practice for details.

For additional details and latest specifications www.thermakraft.co.nz

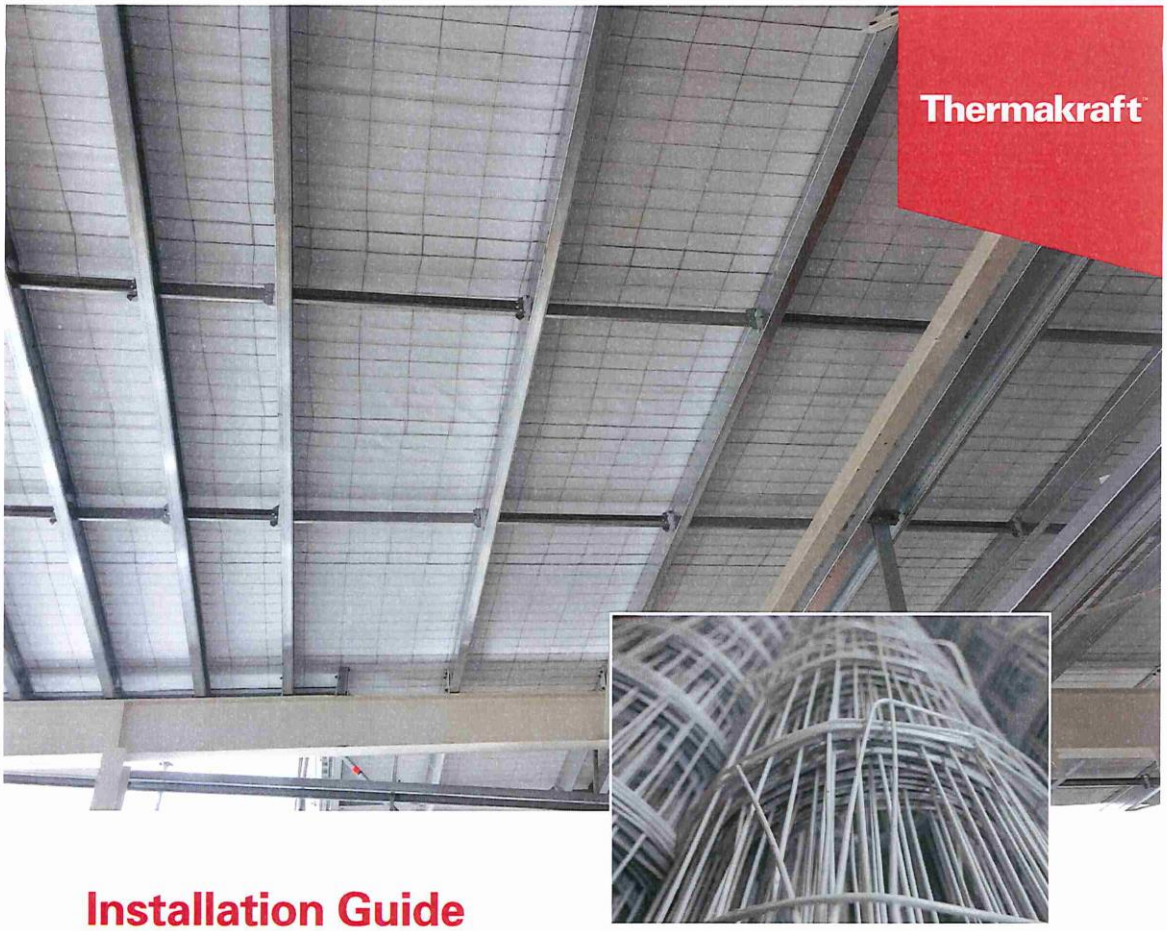
BRANZ Appraised
Appraisal No.943 [2016]

Thermakraft™

Thermakraft Industries Ltd 11 Turin Place, East Tamaki, Auckland, New Zealand
P.O.Box 58-112, Botany, Auckland 2163 **Phone** 0800 806 595 or +64 9 273 3727
Fax +64 9 273 3726 **Email** info@thermakraft.co.nz **www.thermakraft.co.nz**

INTELLIGENT MEMBRANES FOR THE BUILDING INDUSTRY

J2902-04/16



Installation Guide

AUSMESH

Galvanised roof safety mesh

Ausmesh is a superior quality roof underlay support and fall safety mesh for use on a variety of commercial buildings. Ausmesh is constructed of high tensile galvanised wire exceeding 450MPa and when used for roofing becomes a permanent fixture in the building. Available with PVC coating for high corrosive or aesthetic applications.

Product usage

Apart from meeting the requirements of a roof safety mesh product, Ausmesh can also be used to support Thermakraft roof underlay products.

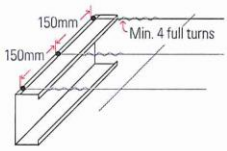
Smarter products. Better buildings.
thermakraft.co.nz

Installation Guide

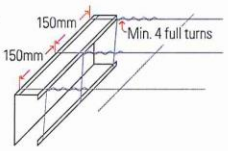
Application Method

There are strict requirements for the installation of safety mesh so that it meet its safety and durability performance. Thermakraft needs the installer to refer to the AS/NZ 4389:2015 for the full installation requirements and fixing details. Below is a brief overview of the installation of Ausmesh.

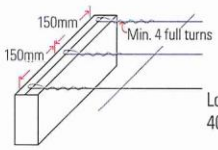
- Crosswire or transverse wire should face up and longitudinal wire should face down.
- Roof Safety Mesh shall be pulled taut to ensure only a natural sag between each purlin or roof member. This natural sag shall not be modified to create artificial sag.



Longitudinal wires passed through holes drilled in purlins



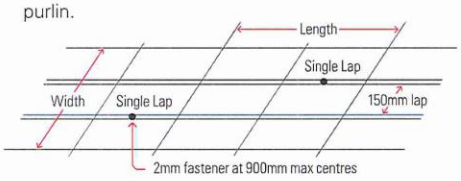
Longitudinal wires wrapped around steel or wood purlin



Longitudinal wires passed through 40mm long x 3.5 diam. staples

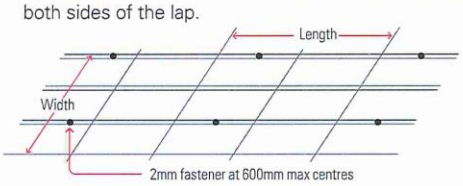
Single side laps:

- Purlins less than 1200mm - mesh to be lapped minimum 150mm.
- Purlins 1200-2199mm - mesh to be lapped min 150mm and side lap to be fastened with 2mm ring fastener at 900mm max centres between each purlin.



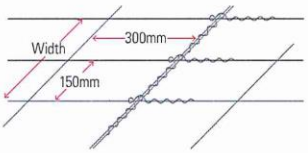
Double side laps:

- Purlins 2200mm or greater to be side lapped min 300mm and side lap to be fastened at max 600mm centres between each purlin - laps to be fastened on both sides of the lap.



End joints in wire:

TWO transverse wires are placed together. The longitudinal tail wires (approx 300mm long) are tied around each other, one being twisted four times around the main portion of the same wire, the other longitudinal wire twisted once around the main portion of the same wire then four times around the two transverse wires.



Handling and Storage

Ausmesh must be handled with care to prevent damage such as scratching the wires and deforming the roll.

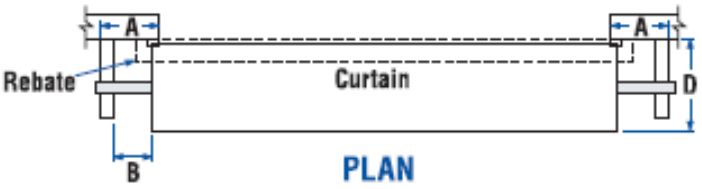
The product must be stored under cover well away from direct moisture, rainfall contact and sunlight (UV). Care should be taken not stack other materials on top of the product.

Issue 1, November 2019

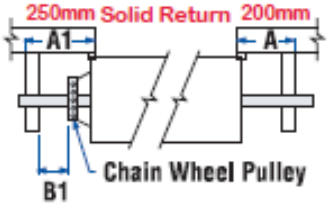
S2 Roll-A-Door Framing Instructions

For Series 2 Roller Doors Up To 5.00m High

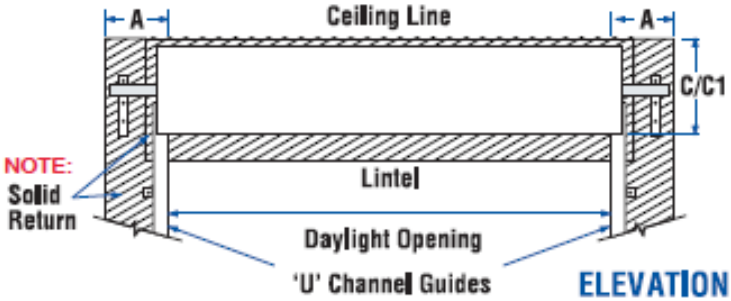
Note: With ongoing product developments, the manufacturer retains the right to change products & specifications without notification. If a specification is critical to the end use, please discuss with your Local Dealer first. Illustrations are not accurate representations of product, and are for illustrative purposes only, not to scale. All measurements should be made by your Local Dealer for clarification.



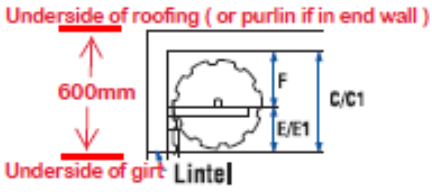
PLAN



CHAIN WHEEL DOORS



ELEVATION



END VIEW

REBATE DETAIL - STD GUIDES
100mm Past Opening
120mm Inside Building

DIMENSIONS

A1*	**Denotes sideroom/fixings required for installation of a Garador opener when mounted on the door bracket.**
B	**Denotes non geared end of curtain**
B1	**Denotes geared end of curtain**
C1 & E1	**Denotes restricted headroom installation requirements**
C & E	**Is recommended.**

All measurements are in millimetres and are minimum unless otherwise shown.

HEIGHT	A	A1	A1*	B	B1	C	C1	D	E	E1	F	OPERATION
UP TO 2400	135	135	235	35	N/A	540	475	555	245	180	295	Hand Operated
2401 – 2700	135	135	235	35	5	620	555	565	310	245	310	Direct Drive
2701 – 3000	180	205	235	35	5	620	555	565	310	245	310	Direct Drive
3001 – 3300	195	225	235	35	5	620	555	565	310	245	310	Planetary Gear
3301 – 4200	195	225	235	35	5	620	555	585	310	245	310	Planetary Gear
4201 – 5000	210	225	235	35	5	635	590	615	310	245	325	Planetary Gear

Note: Installations with only minimal clearances may incur additional costs. Consult your Dealer.

Fixing (shown shaded) must be solid timber, masonry or steel. All masonry must be solid bricks or core filled. Steel must be of a suitable thickness. If unsure consult with your engineer.

Note: Series-2 doors have a minimum 50mm curtain overlap on both sides. Wind-Locked doors will need between 55 – 68mm curtain overlap on both sides (depending on the substrate used). **Wind-Locked doors require a minimum of 165mm sideroom timber** to allow for fixing of the track. – Please refer to windlock certification drawing for full specification requirements.

0800 427 236
www.garador.co.nz

stylish smart& secure | SINCE 1962

Contact:

HEARTLAND ALUMINIUM

Quote No : -10269- Ver 2
Quote Date : 19/09/2023
Modified Date : 19/09/2023

Heartland Aluminium

23 McNally Street P O Box 351
Ashburton
7770
Phone : (03)3088368 E-mail : vistalite.ash@xtra.co.nz

Contact :
Mobile :
E-mail :

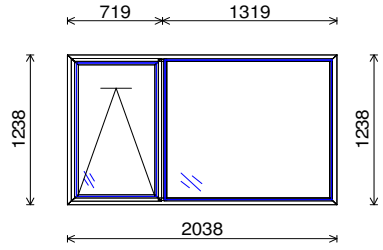
TRADE NEW HOME BUILD

Project Title : **Campbell, McDonald Rd, Lincoln**

Site Contact :
Deliver to :

Mobile :
Items : All No. of units = 6 Phone : Fax :

Item	Description	Quantity
1	**W1**	1

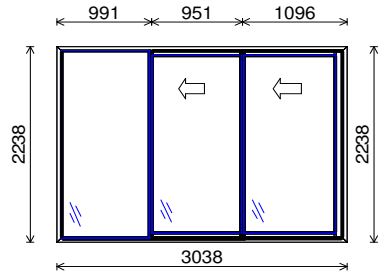


SUITE : Tasman 35™ **FLASHING :** 70mm Head Flashing - 999070/71
FRAME : Standard Frame **TRIM SIZE :** 1220mm x 2020mm
FRAME COLOUR : To be advised Group 1

WIND ZONE : High **FACING SIZE:** 1238mm x 2038mm
LINER : H3 Paint Quality Pine 19mm Thick Architraved Mitre Cut
GLASS : 04CLFL14BK04CLFL

WANZ COMPONENTS : 55mm Support Bar
WALL THICKNESS : 177 **UNIT WEIGHT :** 54.79 kg
SILL LINER : TRUE
HEIGHT FROM FLOOR : 1000

Item	Description	Quantity
2	**D1**	1

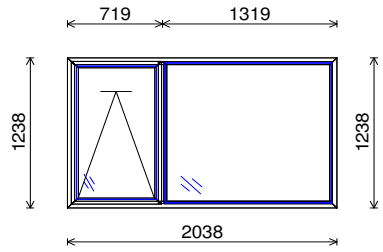


SUITE : Tasman 35™ **FLASHING :** 70mm Head Flashing - 999070/71
FRAME : Standard Frame **TRIM SIZE :** 2220mm x 3020mm
FRAME COLOUR : To be advised Group 1

WIND ZONE : High **FACING SIZE:** 2238mm x 3038mm
LINER : H3 Paint Quality Pine 19mm Thick Architraved Mitre Cut
GLASS : 04CLFLT14BK04CLFLT

WANZ COMPONENTS : 55mm Support Bar
WALL THICKNESS : 177 **UNIT WEIGHT :** 181.17 kg
SILL LINER : 999412
STK FRAME : PROJECTING
BEADED PANEL : TRUE
COVER_TRIM : SQUARE
TRACK FINISH : BLACK
HEIGHT FROM FLOOR : 0

3 **W2** **1**

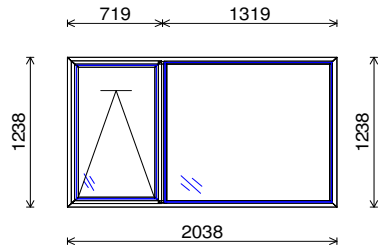


SUITE : Tasman 35™
FRAME : Standard Frame
FRAME COLOUR : To be advised Group 1
FLASHING : 70mm Head Flashing - 999070/71
TRIM SIZE : 1220mm x 2020mm

WIND ZONE : High
LINER : H3 Paint Quality Pine 19mm Thick Architraved Mitre Cut
GLASS : 04CLFL14BK04CLFL
FACING SIZE: 1238mm x 2038mm

WANZ COMPONENTS : 55mm Support Bar
WALL THICKNESS : 177
SILL LINER : TRUE
HEIGHT FROM FLOOR : 1000
UNIT WEIGHT : 54.79 kg

4 **W3** **1**

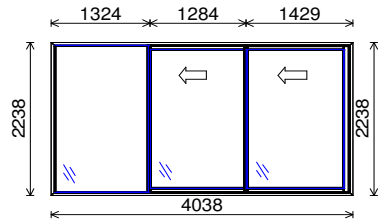


SUITE : Tasman 35™
FRAME : Standard Frame
FRAME COLOUR : To be advised Group 1
FLASHING : 70mm Head Flashing - 999070/71
TRIM SIZE : 1220mm x 2020mm

WIND ZONE : High
LINER : H3 Paint Quality Pine 19mm Thick Architraved Mitre Cut
GLASS : 04CLFL14BK04CLFL
FACING SIZE: 1238mm x 2038mm

WANZ COMPONENTS : 55mm Support Bar
WALL THICKNESS : 177
SILL LINER : TRUE
HEIGHT FROM FLOOR : 1000
UNIT WEIGHT : 54.79 kg

5 **D2** **1**



SUITE : Tasman 35™
FRAME : Standard Frame
FRAME COLOUR : To be advised Group 1
FLASHING : 70mm Head Flashing - 999070/71
TRIM SIZE : 2220mm x 4020mm

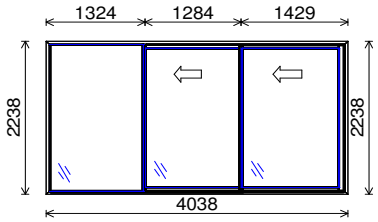
WIND ZONE : High
LINER : H3 Paint Quality Pine 19mm Thick Architraved Mitre Cut
GLASS : 04CLFLT14BK04CLFLT
FACING SIZE: 2238mm x 4038mm

WANZ COMPONENTS : 55mm Support Bar
WALL THICKNESS : 177
SILL LINER : 999412
STK FRAME : PROJECTING
BEADED PANEL : TRUE
COVER_TRIM : SQUARE
TRACK FINISH : BLACK
HEIGHT FROM FLOOR : 0
UNIT WEIGHT : 234.4 kg

HEARTLAND ALUMINIUM

Quote No : -10269- Ver 2
Quote Date : 19/09/2023
Modified Date : 19/09/2023

6 **D3** **1**



SUITE : Tasman 35™
FRAME : Standard Frame
FRAME COLOUR : To be advised Group 1

FLASHING : 70mm Head Flashing - 999070/71
TRIM SIZE : 2220mm x 4020mm

WIND ZONE : High
LINER : H3 Paint Quality Pine 19mm Thick Architraved Mitre Cut
GLASS : 04CLFLT14BK04CLFLT

FACING SIZE: 2238mm x 4038mm

WANZ COMPONENTS : 55mm Support Bar
WALL THICKNESS : 177
SILL LINER : 999412
STK FRAME : PROJECTING
BEADED PANEL : TRUE
COVER_TRIM : SQUARE
TRACK FINISH : BLACK
HEIGHT FROM FLOOR : 0

UNIT WEIGHT : 234.4 kg

Quote Comments:

Number of Units = **6**

This quotation is provided under the terms of the Construction Contracts Act 2002

I hereby accept this quote for aluminium joinery as detailed above. I agree that the joinery is supplied on the Terms and Conditions of Sale which accompany this quote and that these Terms and Conditions of Sale will form the basis of the contract for supply between you and us. I also agree to settle my account in full or by prior arrangement.

Signed : _____ Dated : _____ /_____ /_____

All Units are viewed from the outside.

This quotation is valid until 20 October 2023

25 McNally street, 7700 Ashburton ph 3088368 or 0800 Vistalite Email:vistalite.ash@xtra.co.nz

September 19, 2023

On behalf of Heartland Aluminium Ltd, we would like to thank you for the opportunity to price the Aluminium Joinery **for Q10269 James Howden - Campbell**

This quotation, including all terms and conditions below have been prepared from an interpretation of the drawings and specifications provided by dropbox/ email attachment - ***schedule supplied***

H1 energy efficiency calculation.
If this table is not included from your designer, efficiency will be calculated as glazing <30% of wall area under the schedule method and may not be correct. To ensure you meet compliance confirm with your designer all relevant information is supplied

Should the quantities as defined in our attachments be at variance with your interpretation of the aluminium joinery supply details, we reserve the right to adjust our submitted price and re submit to be aligned with your interpretation. Schedule attached is indicative only.

Understanding external joinery and glass products
External joinery and glass are not only a finished joinery product but their main function is part of the building envelope for weather. Therefore there are some industry differences to other joinery which main function may not be for building performance
Finished powder coated joinery meets or exceeds the building code for E2 external moisture.
However as a WGANZ recognized architectural powder coated product for the exterior, minor inclusions and blemishes may be present from processing, but are acceptable at certain viewing distances of 3mtrs.
External joinery uses Dulux colours and may differ from other brands/products even if the same name is used
Glass also may have minor defects as part of the processing and may be noticeable under certain light conditions especially in tint form, toughened or Low E. But again some tolerances are acceptable as a cladding product. Thermal frames with 1.1 Low E meets requirements of H1 thermal rating in homes and will reduce condensation compared to non thermally broken frames. Some condensation may still form due to damp or moist air, inadequate insulation or sealing of critical joins, moisture in timber or concrete, or change of temperature between rooms because of design, or heating systems
Contact us about more information on glass manufacturers and WGANZ industry terms

Please Note:
JOB SPECIFIC DETAILS

Entrance

- n/a

Wind zone

- calculated on high wind zone only

Frames and design used

- Vistalite® Tasman 35 residential frame (no thermal break)
- Standard slider/stacker units allowed

Glass details

- Clear double glazed glass (no Low E or argon fill)

Hardware

- Standard Vistalite® hardware in coloured to match powder coat finish
    - Aria locking to hinged doors
    - Aria Wedge less catches to windows
    - Endeavour latchset to slider doors

Reveals

- 19mm standard paint pre primed reveals for Architrave
- Bottom infill on all full height windows and doors

Flashings

- WANZ support bars allowed
- Head flashings allowed
- No direct fix flashing or any additional flashing allowed

Site Work/access

- No Site glazing has been allowed
- Inaccessible terrain, restrictions to glaze may incur extra charge or glazing at a time when access is suitable

Delivery

- Use of our trailer for pick-up allowed

General details

- This quotation is valid for a period of 28 days. Subject to supplier increases
- Safety glass allowed as required by NZ4223, part 3, 2017
- Vistalite® 5 year warranty.
- Damage caused after delivery by installers and other contractors can void any warranty. A visual site check of not less than 3 meters may be completed by us with builder/home owner once units are delivered on site
- Materials required for fabrication are ordered after all final site measurements are taken, and after all hardware/colour/ door/window styles are verified.
- Powder coating is to our supplier's standard coating specifications

Excluded from this price is the following:

- Installation of quoted items
- Allowance for resource or building consents if required
- Scaffolding/scissor lift where required for onsite glazing

The price for the above would be: $17,790.27 excluding GST
$ 2,668.54 GST
$20,458.81 including GST

A progress payment will be sent if some items are still withstanding due to delays for various reasons, or if there is remedial/glazing work to undertake. The progress payment shall reflect the amount withstanding. See below for T&C's, 5(f)

The following items can be added as required.

- To add restrictor stays additional $30.00 excl GST each window

All aluminium Joinery and glazing will be manufactured as per Vistalite® standard manufacturing details. Examples of this standard joinery can be viewed in our showroom.

1: Anodizing of aluminium profiles is an electro-chemical batch process. As such there may be a noticeable variation in colour on individual profiles. Variations in brightness, banding, streaking and other visual defects, may be observed, from close inspection or from certain viewing angles. These variations seldom impair the performance of the anodizing coating. For all finishes a viewing distance of not less than 3 meters is required when viewing external architectural applications.
2: Our price is subject to change after the agreed period due to market fluctuations of materials, labour and services.
3: Our price is based on the quantity of individual sizes as scheduled. Any variation to either quantity or sizes may have costs adjusted accordingly.
4: All goods are supplied as per our standard terms and conditions of sale. All units are Property of Murray Smith Aluminium (2014) Ltd until payment is received in full.
5: Payment to be in one month following the submission of our invoice. 5(a): Unpaid accounts will incur interest at 18% daily. 5(b) If unpaid after 2 months, the debt owing shall be passed on to Baycorp and may incur extra collection/legal costs payable by the client and/or directors/persons trading on behalf of the client at that time, or any 3rd party associated with the items in question 5(c) If unpaid, glass and all moving joinery items may be removed until payment is received, and as a worksite restrictions or trespassing notices will not apply for removal of items . 5(d) It is up to the client to cover/fill any units with removed items to provide sufficient weather proofing as to not damage internal linings. We shall bear no responsibility for weather damage if removed. 5(e) Producer statements will not be released until full payment and any outstanding costs are made. 5(f) Only an agreed amount for remedial or items outstanding may be left unpaid as determined by us in a fair assessment. If the client through no factual reason withholds an excessive amount as outstanding without previous notification and mutual agreement in writing then paragraph 4 through 5(f) will apply

All units are supply only, if unsure please ask for our advice on best installation methods & maintenance. Thereafter installation is by builder at their discretion, with maintenance to be up kept by home owners.

We hope the quote has been completed to your satisfaction and if you have any queries or questions regarding the quote please contact us on (03) 308 8368

We appreciate the opportunity to quote for the aluminium joinery for this project and invite you to our showroom at 25 McNally Street, Ashburton.

Warm regards

Heartland Aluminium

CONDITIONS OF SALE

These conditions of sale apply whenever Murray Smith Aluminium (2014) Ltd ("Seller") supplies any goods or services to any person ("Buyer"), unless expressly agreed otherwise in writing. By requesting the supply of goods or services from the Seller, the buyer acknowledges and agrees to these conditions of sale.

1 THE AGREEMENT

1.1 These Conditions of Sale, and the Seller's quotation or others sales confirmation issued by the Seller ("Quotation"), constitute the entire agreement between the parties for the supply of the goods and services referred to in thee Quotation and exclude (to the extent permitted by law) all other representations, promises, undertakings, terms, conditions and warranties (whether express or implied), (together, "the agreement").

1.2 Once the Quotation is accepted by the Buyer, there shall be a binding contract with the Seller which may be varied or cancelled only with the written agreement of the parties

2 SUPPLY

2.1 Goods and Services will be supplied on the basis, and to the location, set out in the Quotation (or as otherwise agreed in writing)

2.2 Any Supply date given is an estimate only. The seller is not liable for any delay (howsoever cause). The seller may supply the goods and services before and after any given date, including by instalments.

2.3 Unless otherwise agreed in writing, supply "At Seller's Premises" of the goods, or of any installment of the goods, shall be complete immediately the Seller notifies the Buyer that the Goods are complete and available for removal for the Seller's premises. If the Buyer fails within 5 working days of such notice to uplift the goods, the Seller may, at its sole discretion, store the goods or transport them to the installation premises charging all associated storage or transportation costs to the Buyer.

2.4 Supply "To Installation Premises" shall be complete upon the goods, or any instalment of the goods, being unloaded at those premises.

2.5 Supply "By Installation at installation premises" shall be complete upon the goods, or any instalment of the goods, having been installed in a proper and tradesman like manner.

3 SPECIFICATIONS, PRICE AND PAYMENT

3.1 Any quoted price is calculated using costs at date of Quotation, and is subject to an increased or additional applicable costs, taxes or duties arising between the date of Quotation and the date of supply.

3.2 Unless the seller has already measured the structure , the quantities and measurements in the Quotation are based on specifications supplied by the Buyer and if the Seller finds any inaccuracy in those specifications, or any unforeseen site conditions at the installation premises or consent conditions which result in increased cost to the Seller, the Seller or consent conditions may recalculate the price payable by the Buyer

3.3 Before Manufacture of the goods begins, the Buyer may request an alteration to the specifications provided that the alteration, will not (in the Seller's sole opinion) unreasonably interfere with the Seller's manufacturing programme and the seller may recalculate the Net quotation and the total price on the same basis as used with the original specifications

3.4 In the event of any disagreement regarding any recalculation of the Net Quotation or the Total Price, a certificate given by the general manager of the Seller shall, in any proceedings, arbitration, mediation or discussion, be conclusive evidence of the Total Price to be paid by the Buyer.

3.5 The total price, or where the Buyer is obliged to pay in installments, each installment of the total price, shall be paid by the buyer by the payment date or dates (as case may be) specified in the Quotation, and if the Total Price or any installment is late, then the Discount will not apply and the Total price due shall be the sum of the Net Quotation plus GST on the Net Quotation. Where any amount payable under this Agreement is not paid upon due date, the amount which is consequently owing shall immediately incur interest on a daily basis (at the same rate for which the Seller would be liable to its principal trading bank if it were to exceed its overdraft limit) which shall accrue before as well as after judgment.

3.6 The Buyer shall be liable to pay all expenses and legal costs of the seller (including those calculated as between solicitor and client) in recovering any outstanding payment and interest. All amounts owing by the Buyer to the seller shall be paid without any set off or deduction for any reason whatsoever.

3.7 The Terms of the Constriction Contracts Act 2002 shall apply to payments by installments.

4 TITLE AND RISK

4.1 Until all amounts owing to the Seller by the Buyer and any of the Buyer's related companies (as defined in the companies Act 1993) have been paid (in cash or cleared funds):

a. All property in the goods supplied shall remain with the Seller;
b. The Buyer (or its contractor) may install the goods only to a temporary and incomplete extent and so as to allow identification and removal without any damage to the installation premises.
c. The Buyer shall procure that the seller may enter the installation premises at any time and remove the goods. They Buyer indemnifies the Seller against all liabilities, expenses and costs (including solicitor-client) arising from such entry.

4.2 Immediately supply has occurred, risk of any loss, damage or deterioration of or to the Goods Supplied shall pass to the Buyer

5 DEFECTS

5.1 Where goods are subject to a separate manufacturer's warranty, the Seller will pass on the benefit of that warranty to the Buyer where the Seller is able to do so. Unless expressly agreed otherwise in writing, all other representations and warranties in relation to the goods or services, whether express or implied, are excluded to the maximum extent permitted by law.

5.2 If the Seller is liable for any defect in the goods or services, its liability is limited, at the Sellers option, to either repairing or replacing the defective goods, re-preforming the defective services; or refunding the price paid by the Seller for the defective goods or services.

5.3 Any and all claims in respect of goods or services supplied or these Conditions of Sale must be notified in writing to the Seller within 7 days of supply of the goods or services. Any claims not made within this timeframe will be invalid and the Seller will have no liability whatsoever in respect of such claims. The Seller shall be given reasonable access to investigate any claim, and may, at its discretion, remove the relevant goods to its premises.

5.4 The Seller shall not be liable for any defect arising from fair wear and tear, willful damage, negligence, extreme weather conditions, failure to follow the Seller's (or manufacture's) recommended maintenance programme or other instructions for use, failure to use Seller's (or manufacture's) recommended flashings and pre-cladding trim preparation system, misuse, or any alteration or repair of goods not authorised by Seller, nor for any defect arising form a drawing, design or specification supplied by the Buyer.

6 SECURITY AND INDEMNITY

6.1 The Buyer will do all things and provide all further assurances reasonably required by the Seller to enable the Seller to register a financing statement under the Personal Property Securities Register, in respect of the Purchase Money Security Interest granted by this clause. In default of doing so, the Buyer in consideration of the provision of or agreement to provide credit appoints the Seller and every office of Seller its attorney to do all things and sign all documents required to enable registration of a financing statement.

6.2 Where the buyer or the Guarantor (if any) is the owner of the land at the installation premises ("owner"), the owner agrees to mortgage all of the Owner's interest in the land comprising the installation premises to the Seller to secure all mounts payable under this Agreement and the Owner acknowledges and agrees that this Agreement creates a caveatable interest in that land in favor of the Seller.

6.3 The Guarantor (if any) guarantees the payment of all amounts due by the Buyer to the Seller under this Agreement. This liability constitutes a principal obligation which shall not be released or prejudiced by any granting of time, failure to take security, waiver or forbearance to sue by the Seller.

6.4 The Guarantor (if any) shall indemnify the Seller against all losses, damages and expenses suffered or incurred by the Seller arising out of the nonpayment of any amount by the Seller or any breach of its obligations in this Agreement.

7 GENERAL

7.1 The rights, powers and remedies provided in this Agreement are cumulative and do not prejudice or exclude any rights, powers and remedies provided by law.

7.2 If any provision, or any part of any provision, of this Agreement is, or becomes invalid or unenforceable, that invalidity or unenforceability shall not affect the other provisions, and part provisions (if any), of this Agreement, all of which shall remain in full force and effect to the extent permitted by law, subject to any modifications made necessary by the deletion of the invalid or unenforceable part of this Agreement.

7.3 All words defined in these conditions of sale shall bear the same meaning in the Quotation and vice versa.