



WAIMAKARIRI
DISTRICT COUNCIL

BC No: 180913

SITE DETAILS:

55 MANDEVILLE PARK DRIVE

MANDEVILLE NORTH

LEGAL:

LOT 27 DP 448155

**APPROVED BUILDING CONSENT DOCUMENTS AND PLANS
(FULL SET SUPPLIED)**

- ON SITE COPY -

- These plans and specifications must be kept on site during construction, and made available to the building officer on request. Failure to do so will mean an automatic failure of the building inspection and will necessitate re-booking the inspection at the applicant's expense.
- All boundary survey pegs must be located and flagged by the owner before work is commenced.

INSPECTIONS

for bookings or building enquiries

please phone the BUILDING UNIT on:

03 311 8906

or

Email inspection bookings to: bcbooking@wmk.govt.nz

- Please refer to your inspection schedule for details of inspections to be carried out.
- 2-3 working day's notice should be given and provision made to allow access.
- The Code Compliance Certificate will be issued once the:
 - Final inspection has been carried out and passed
 - Audit of WDC building consent file has been completed
 - Payment of any outstanding invoices is received

Dial Before You Dig

Safety near underground cables and services

MainPower is committed to providing a safe, secure and reliable electricity supply to all customers.

This fact sheet is designed to inform you about safety around electricity, particularly underground cables.

Working near electricity cables

Serious personal injury can result from damaging underground services during excavation and ground penetration. Supply disruption and repairs can be costly and extremely irritating to customers.

The positions where cables are buried are subject to reasonable tolerance however, the depth of cover may have changed since installation.

It is your responsibility to verify the position and depth of cables before excavation.

Steps to ensure safe digging

- Obtain up-to-date plans from the relevant local authorities.
- Use a cable locator, if possible, to mark-out the underground services before commencing work.
- Practice safe digging procedures.
- The Worksafe Guide for Safety with Underground Services sets out agreed work methods and preferred work practices for the location and excavation of underground services. Download the guide at - <http://www.business.govt.nz/worksafe/information-guidance/all-guidance-items/underground-services-guide-for-safety-with/underground.pdf>

Underground electricity cables

For copies of plans showing MainPower's electricity cables phone 03 311 8300, weekdays 8am - 5pm or email us at underground.records@mainpower.co.nz.

Please allow 2 working days to receive copies of plans. MainPower may hold some records of privately-owned cables connected to the MainPower network system; contact MainPower in the first instance.

Additional services MainPower can provide if you are planning your digging:

- Mark-out Services: MainPower can trace cables using an electronic locator.
- On-Site Supervision: For difficult work or locations, MainPower can provide on-site safety supervision.

Underground council services

All contractors are reminded of their legal responsibility to take all practicable steps to locate and protect existing services. In the road corridor, service plans and a Corridor Access Request (CAR) permit need to be obtained through the Beforeudig website (www.beforeudig.co.nz). The Beforeudig service helps contractors to determine the location of any underground services before excavating. For service plans on private property, and lateral locations for work on private property that will not extend into any part of the road reserve, contact the Waimakariri District Council's Customer Services team at office@wmk.govt.nz.

Contact MainPower

To report a fault:
0508 60 70 80

For electricity emergencies:
0508 60 70 80

For general enquiries:
www.mainpower.co.nz
info@mainpower.co.nz
03 311 8300 (8am to 5pm, Monday to Friday)

mainpower

Dial before you dig.

Always remember to locate underground cables and services before digging and avoid serious injury, supply disruption and costly repairs. Phone MainPower for cable location advice.

03 311 8300



Think for
Safety's Sake



www.mainpower.co.nz

DWELLING & OTHER WORKS - NOT COMMERCIAL

SECTION 1

Statutory Forms

- **Inspection List – By Council**
- **Building Consent Form (Form 5) – By Council**
- **Code Compliance Application (Form 6) – By Council**
- **Installation & PS3 Forms – By Council**
- **Application Form**
- **LBP Design Certificates**
- **Certificate of Title or Sales & Purchase Agreement**
- **PIM, Resource Consent – By Council**

PLEASE NOTE

- Although your Consent documentation states 48 hours notice is required, it is not always possible to carry out an inspection within this period.
- If an inspection of the building works is not carried out in accordance with the Inspection Schedule it could affect the issue of the Code Compliance Certificate.

To book inspections ring WDC on
03 311 8906

All inspections are subject to a separate charge.

All re-inspections will be charged and recorded separately even if other inspections are carried out on the same day.

Using engineers & other professionals

If an engineer has been engaged to carry out various site inspections you will need to provide copies of his/her site notices to us and a producer statement, a PS4 from the engineer confirming the building elements designed and inspected by the engineer were completed in accordance with the approved design.

Confirmation of installation of products

We require producer statements, warranties & installation certificates from various installers as a way of confirming products have been installed in accordance with the manufacturer's recommendations. These are commonly required for exterior claddings, wet area tanking, membrane roofing/decking and effluent fields. Energy certificates such as electrical and gas certificates need to be provided too. You will need to provide these to us prior to the issue of the Code Compliance Certificate.

Applying for a Code Compliance Certificate (CCC)

When you are satisfied your project is complete please book a final inspection and complete and sign *form 6*, application for Code Compliance Certificate which is enclosed with your building consent. You should have this form ready for when the building Inspector arrives on site to carry out the final inspection. Please note all outstanding monies must be paid prior to the issue of the CCC.

Grant or refuse a CCC

We are required to make a decision to grant or refuse a CCC if you do not formally apply for a CCC within two years of the granting of the building consent. The date your consent was granted is the date at the bottom of the building consent form. If you do not apply for a CCC or arrange an extension with us within the two year period we may carry out an inspection of the building work. An additional fee applies for this work.

Lapsing of your consent

Your building consent will lapse if building work has not commenced within 12 months after the date of issue of the building consent. The issue date is deemed to be the day you paid for the consent. In saying this we understand things don't always run smoothly so you can apply for a time extension which we may agree to. A fee applies for this.

Site Inspection Sheet

Application

Richard N D Hudson, WA Trustee Limited C/- Totalspan North Canterbury PO Box 58 Woodend 7641	No.	BC180913
	Issue date	23 August 2018
	Overseer	Michael Molloy

Project

Description	3304
	BC - Outbuildings, New Outbuilding/s, 01 Standard Building Consent(20 W Processing Days)
Intended Life	Indefinite (50+)
Intended Use	Outbuilding - garage
Estimated Value	\$21000.00
Location	55 Mandeville Park Dr MANDEVILLE NORTH
Legal Description	LOT 27 DP 448155 0.547000 Ha
Valuation No.	2175068109

This inspection list and all the approved plans relating to this building consent are to be kept on site and available to the building and/or plumbing and drainage inspector, or approved building certifier, on request.

Please give at least 48 hours notice for the next required inspection.

Work cannot proceed past each step until that step has been inspected and approved.

Please note! The approved plans and this inspection sheet are to be available on site, on request, at all times.

All inspections listed below are to be inspected by a WDC Building Inspector, an Engineer may also need to be engaged to inspect engineer requirements, this will be noted below.

BC180913
Foundation / Floor Slab -
Final - Inc. Soak pit - detail in A4 docs.



Form 5

Building consent BC180913

Section 51, Building Act 2004

The building

Street address of building: 55 Mandeville Park Dr MANDEVILLE NORTH

Legal description of land where building is located: LOT 27 DP 448155 0.547000 Ha

Valuation number: 2175068109

Building name:

Location of building within site/block number:

Level/unit number: 1

The owner

Name of owner: Richard N D Hudson and WA Trustee Limited

Contact person:

Mailing address: 55 Mandeville Park Drive RD 2 Kaiapoi 7692

Street address/registered office:

Phone number: Landline:

Mobile: 0274088787

Daytime:

After hours:

Facsimile number:

Email address: rndhudson1694@hotmail.com

Website:

First point of contact for communications with the council/building consent authority:
Totalspan North Canterbury

Building work

The following building work is authorised by this building consent:

GARAGE 55 MANDEVILLE PARK DRIVE MANDEVILLE NORTH LOT 27 DP 448155

Outbuildings

This building consent is issued under section 51 of the Building Act 2004. This building consent does not relieve the owner of the building (or proposed building) of any duty or responsibility under any other Act relating to or affecting the building (or proposed building).

This building consent also does not permit the construction, alteration, demolition, or removal of the building (or proposed building) if that construction, alteration, demolition, or removal would be in breach of any other Act.

This building consent is subject to the following condition:

The Building Act 2004, s90, states that agents authorised by the building consent authority (the Council) for the purposes of this section are entitled, at all times during normal working hours or while building work is being done, to inspect –

- (a) land on which building work is being or is proposed to be carried out; and
- (b) building work that has been or is being carried out on or off the building site; and
- (c) any building.

This building consent is issued with the following advice notes:

Please note that any material deviation from the approved documents will require a formal application for amendment. Amendments that are not of a material nature can be approved by a Building Officer or Building Inspector by way of the endorsement of the approved consent documentation.

The certifying drainlayer's registration number shall be provided to the Building Consent Authority prior to issue of the Code Compliance Certificate.

Comply with the endorsements on the plan.

The electrical certificate shall be provided to the building consent authority prior to issue of Code Compliance Certificate

The duplicate copy of the approved consent documents and inspection schedule must remain on site during construction.

Occupational Health and Safety and the Labour Department to be notified prior to any disturbance of asbestos or hazardous materials on site during demolition or construction.

A Building Consent lapses and is of no effect if the building work to which it relates does not commence within 12 months after the date of issue of the building consent or any further period that the Building Consent Authority may allow. (Time extensions to commence building work after 12 months must be submitted to the Building Consent Authority in writing stating the reason for the request, prior to the lapse date of the consent.

A Building Consent is not completed until it has been issued with a Code Compliance Certificate. The owner is required to complete a separate application for a Code Compliance Certificate as soon as practicable after the building work is completed. In any event no later than two (2) years after the granting of the Building Consent. Council is required to decide whether or not a Code Compliance Certificate can be issued. If your project will not be completed within two years you will need to apply for a time extension*. *fees apply

All boundary survey pegs must be located by discovery or redefinition before work is commenced.

Compliance schedule

A Compliance Schedule is not required for this building.

Attachments

Copies of the following documents are attached to this building consent:

Consented Plans

Consented Specifications

Inspection List

Form 6 Application for Code Compliance

A handwritten signature in blue ink, appearing to read 'Shirley Cresswell', with a long horizontal stroke extending to the right.

Shirley Cresswell
Building Unit Administrator

On behalf of: Waimakariri District Council
Date: 23 August 2018

Form 6

Application for code compliance certificate

Section 92, Building Act 2004

The building consent

Building consent number: BC180913

Issued by: Waimakariri District Council

Valuation number: 2175068109

The owner

Name of owner: Richard N D Hudson & WA Trustee Limited

Contact person:

Mailing address: 55 Mandeville Park Drive RD 2 Kaiapoi 7692

Street address/registered office:

Phone number: Landline:

Mobile: 0274088787

Daytime:

After hours:

Facsimile number:

Email address: rndhudson1694@hotmail.com

Website:

The following evidence of ownership is attached to this application: RCNotReq

Agent

Name of agent: Totalspan North Canterbury

Contact person: Benjamin Warren

Mailing address: PO Box 58 Woodend 7641

Street address/registered office:

Phone number: Landline:

Mobile: 0272332579

Daytime: 033100247

After hours:

Facsimile number: 033100248

Email address: northcanterbury@totalspan.co.nz

Website:

Relationship to owner:

Application

All building work to be carried out under the above building consent was completed on:

The personnel who carried out the building work are as follows:

I request that you issue a code compliance certificate for this work under section 95 of the Building Act 2004.

The code compliance certificate should be sent to:

Applicant: 55 Mandeville Park Drive RD 2 Kaiapoi 7692

Agent: PO Box 58 Woodend 7641

Signature of agent on behalf of and with the
authority of the owner

Name of person signing

Date:

Attachments

The following documents are attached to this application:

1 Certificates from the personnel who carried out the work

1 Certificates that relate to the energy work



WAIMAKARIRI
DISTRICT COUNCIL

215 High Street, Rangiora
Private Bag 1005, Rangiora 7440
Free Phone 0800 965 468
Email office@wmk.govt.nz
waimakariri.govt.nz

**BUILDING CONSENT AND/OR PIM APPLICATION
FOR DWELLINGS & OTHER WORK THAT DOES NOT FIT THE
CRITERIA FOR SPECIFIED MINOR WORKS FIXED FEE
NOT FOR COMMERCIAL PROJECTS**

Under The Building Act 2004, Sections 33, 45 & Schedule 1, Part 1,
Section 2, BAA13

BC No.

THE BUILDING

1. Site address:
(Street / Road / Township)
2. Legal description of the land where the building is located:
Lot: DP: Valuation Number:
3. Building Name (if applicable):
4. Location of building within site:
(Only applicable to multi-development sites)
5. Number of levels: 6. Unit/Level No.:
7. Floor area m² - Existing: New: Total:
8. Current lawfully established use:
(i.e. use on any previous consent for the existing building)
9. Year building first constructed:
(Only applicable to existing buildings, approximate date is acceptable, eg 1920's)

THE OWNER

10. Owner's name:
(Company or organisation name if applicable)
11. Contact person:
12. Mailing address:
13. Street address / Registered office:
14. Mobile: Landline: Email:
15. The following evidence of ownership is attached to this application:
 - ☐ Copy of Certificate of Title OR ☐ Council to provide (additional charge of \$15)
(Current within 1 month of being issued and must include a deposited plan [diagram])
 - ☐ Signed copy of Sale and Purchase Agreement
(If Certificate of Title is not issued)

THE AGENT

PLEASE NOTE - Authorisation is required from the owner to act as agent.

16. Agent's name:
(Company or Organisation name if applicable)
17. Contact person:
18. Mailing address:
19. Street address / Registered office:
20. Mobile: Landline: Email:

APPLICATION

21. I request that the following (please select one) be issued for the Building Work described in this Application:

- | | |
|--|--|
| ☐ Project Information Memorandum (PIM) only | ☐ Building Consent for PIM No: <input type="text"/> |
| ☐ Building Consent with PIM | ☐ Building Consent without PIM (Compliance Check applies) |
| ☐ Exemption from the need for B/C
(Refer Schedule 1, Part 1, Section 2, BAA13) | ☐ Amendment to Building Consent |

22. I wish to receive my approved documentation in the following format:

PLEASE NOTE - If USB or Hard Copy please confirm if you wish to pick it up from the council or have it posted/couriered (couriered will incur an additional cost).

- ☐ Electronically via Sharefile Transfer Portal ⁽¹⁾
- ☐ USB: ☐ (post) OR ☐ (pick-up) OR ☐ (courier)
- ☐ Hard copy: ☐ (post) OR ☐ (pick-up) OR ☐ (courier)

23. All consent related invoices/refunds to be billed and sent to:

- ☐ Owner ☐ Agent ☐ Or other (If other please complete below)

Company name:
(If applicable)

Contact person:

Mailing address:

Mobile: Landline: Email:

PLEASE NOTE - Any refunds are to the receipted name unless written authorisation has been received from the receipted person or company.

24. Please also provide:

- ☐ Additional On-site copy
- ☐ Weather tight storage box⁽²⁾

Totalspan to collect from Councils Rangiora office - Please advise when available.

(1) You must be set up and registered for this option.

(2) The council can supply a weather tight storage box for a cost (must be picked up from the Council).

PLEASE NOTE - One set of "On-site" hard copy consented documents must be available at all times for inspections.

If the applicant chooses to print their own "On-site" copy of documents it must be a full set in colour, to scale and legible.

If there are non-consented documents on-site this will result in a failed inspection.

PROJECT

25. Description of work (e.g. dwelling, alteration/addition). If an amendment, please provide a complete description of the nature of the amendment.

26. Specify the intended use of the building (e.g. residential/show home)

27. Will the building work result in a change of use of this building? ☐ Yes ☐ No

If yes provide details

28. Will hazardous substances be stored in the building? ☐ Yes ☐ No

29. Intended life of the building:

Indefinite but not less than 50 years ☐ Or specified as years

30. Is this a staged consent: ☐ Yes ☐ No

If staged, provide details
(e.g. Stage 1 of 3)

31. List Building Consents previously issued for this building (if any):
(i.e. is this project being constructed in stages? Is this consent for a relocated or transportable building?)

32. Estimated value (incl GST) \$
(i.e. the estimated aggregate of the values of all goods and services to be supplied for the building work and includes GST).

GEOTECHNICAL REPORT

If a geotechnical report has been included in this application, please confirm that it has been uploaded to the Canterbury Geotechnical database by providing its unique report reference number below.

Report number:

PROJECT INFORMATION MEMORANDUM

The following matters are involved in the project:

- ☐ Subdivision
- ☐ Alterations to land contours
- ☐ New or altered connections to public utilities
- ☐ New or altered locations and/or external dimensions of buildings
- ☐ New or altered access for vehicles
- ☐ Building work over or adjacent to any road or public place
- ☐ Disposal of stormwater and wastewater
- ☐ Building work over any existing drains or sewers or in close proximity to wells or water mains
- ☐ Other matters known to the applicant that may require authorisations from the territorial authority:

NOTES

Other notes or comments which you may wish to add, eg: Resource Consents

BUILDING CODE COMPLIANCE

The building work will comply with the building code as follows:

(If you are not sure what clauses are applicable, consult with your builder, designer or architect).

Clause (Tick relevant clause numbers of Building Code)	Means of compliance (Refer to the relevant compliance document(s) or detail of alternative solution in the plans and specifications; if not applicable, put n/a)	Waiver / modification required (State nature of waiver or modification of building code required; if not applicable, put n/a)
☐ B1 Structure		
☐ B2 Durability		
☐ C1 - C6 Protection from fire		
☐ D1 Access routes		
☐ D2 Mechanical installations for access		
☐ E1 Surface water		
☐ E2 External moisture		
☐ E3 Internal moisture		
☐ F1 Hazardous agents on site		
☐ F2 Hazardous building materials		
☐ F3 Hazardous substances and processes		
☐ F4 Safety from falling		
☐ F5 Construction and demolition hazards		
☐ F6 Visibility in escape routes		
☐ F7 Warning systems		
☐ F8 Signs		
☐ F9 Means of restricting access to residential pools		
☐ G1 Personal hygiene		
☐ G2 Laundering		
☐ G3 Food preparation and prevention of contamination		
☐ G4 Ventilation		
☐ G5 Interior environment		
☐ G6 Airborne and impact sound		
☐ G7 Natural light		
☐ G8 Artificial light		
☒ G9 Electricity	AS1	
☐ G10 Piped services		
☐ G11 Gas as an energy source		
☐ G12 Water supplies		
☐ G13 Foul water		
☐ G14 Industrial liquid waste		
☐ G15 Solid waste		
☐ H1 Energy efficiency		

COMPLIANCE SCHEDULE

The specified systems for the building are as follows (specified systems are defined in regulations):

The following specified systems are being altered, added to, or removed in the course of the building work:

There are no specified systems in the building ☐

RESTRICTED BUILDING WORK

Does the building work include any restricted building work? ☐ Yes ☐ No

If Yes, provide the following details of all Licensed Building Practitioners who will be involved in carrying out or supervising the restricted building work (if these details are unknown at the time of the application, they must be supplied before the work begins).

LICENCE CLASS	NAME	LICENSED BUILDING PRACTITIONER NUMBER (or registration number if treated as being licensed under section 291 of the Building Act 2004)
FOUNDATIONS		
CARPENTRY		
EXTERIOR PLASTERER		
BRICKLAYER		
BLOCKLAYER		
ROOFER		

KEY PERSONNEL

BUILDER

Name:		Reg. No.:	
Address:			
Phone No.:		Fax No.:	
Email:			

DESIGNER(S)

Name:		Reg. No.:	
Address:			
Phone No.:		Fax No.:	
Email:			

CERTIFYING DRAINLAYER

Name:		Reg. No.:	
Address:			
Phone No.:		Fax No.:	
Email:			

CERTIFYING PLUMBER

Name:		Reg. No.:	
Address:			
Phone No.:		Fax No.:	
Email:			

CERTIFYING GASFITTER

Name:		Reg. No.:	
Address:			
Phone No.:		Fax No.:	
Email:			

REGISTERED ELECTRICIAN

Name:		Reg. No.:	
Address:			
Phone No.:		Fax No.:	
Email:			

STRUCTURAL ENGINEER

Name:		Reg. No.:	
Address:			
Phone No.:		Fax No.:	
Email:			

OWNER / AGENT AUTHORISATION

PLEASE NOTE - By entering your name in the box below you are giving your authority for the application to proceed.

Name: Date:

I am the ☐ Owner ☐ Agent

Note: If acting on behalf, by entering your name above you hereby declare that you are authorised to act as Agent for the Owner.

NB: Ensure Agent Authorisation section is completed - see below.

AGENT AUTHORISATION (TO BE AUTHORISED BY OWNER)

PLEASE NOTE - By entering your name in the box below you are giving your authority for this application to proceed.

I authorise to act as Agent on my behalf for this Building Consent application under Sections 33 and 45 of the Building Act 2004.

With respect to this Building Consent application, I authorise to act as Agent on my behalf for the application for Code Compliance Certificate under Section 92 of the Building Act 2004.

Name (Owner): Date:

TERMS OF TRADE

I/We understand that:

Building Consents shall be paid for when the consent is collected or if the consent is not collected within three months after the date of consent being granted, the work done to date portion i.e. admin and processing costs of the account will be due and payable. The balance of the invoice will be payable when the consent is collected.

All other accounts shall be paid by the 20th day of the month following the month in which the invoice is issued.

I/We agree to pay according to these terms for any goods or services you supply to us. Failure to meet these Terms of Trade may result in any credit arrangement being withdrawn with any balance becoming payable within seven days. Should failure to meet the terms of trade result in debt recovery and/or legal proceedings, any costs whatsoever incurred in the collection of the debt including debt collector's fees and commissions and legal costs, charges and expenses on a solicitor and own client basis will be added to the account and will be payable by me/us.

05 July 2018

Waimakariri District Council
Private Bag 1005
Ranigora 7440

To Whom It May Concern

RE: TOTALSPAN BUILDING PROJECT IL1

I, *Nigel Hudson*, of 55 Mandeville Park Drive, Mandeville, acknowledge and agree that my slab will have a finished floor level of 100mm. This level is taken from the highest point of the cleared building site. It has been explained to me what the Council recommendation is.

Signed: *R.N.D. Hudson* X

DOCUMENTATION CHECKLIST

Applicants must mark all items provided with ☒ or leave blank if not applicable.

PIM

This section must be completed if you are applying for a PIM.

DO NOT complete this section if a PIM has already been issued.

The following documents are attached to this application:

- ☐ Site plan, Floor plans, Elevations for proposed building
- ☐ Certificate of Title, or Sales and Purchase Agreement if C/T is not issued. Current C/T required (current within one month of application)
- ☐ One copy of all information required (all plans to be dimensioned, scaled and accurate. Plans preferred size A3)
- ☐ Application fee (as per Council Fees and Charges Schedule)

BUILDING CONSENT

(DO NOT complete this section if the Application is for a Project Information Memorandum only)

The following documents are attached to this application:

- ☐ 1 copy - building plans (site plans, floor plans, elevation plans. All plans to be dimensioned, scaled and accurate preferred size A3)
- ☐ 1 copy of each - specifications, producer statements, truss details (refer below)
- ☐ 1 copy - Certificate of Title or Sale and Purchase Agreement if C/T is not issued. Current C/T required (current within one month of application)
- ☐ Project Information Memorandum Development Contribution Notice (if applicable)
- ☐ Certificate attached to Project Information Memorandum (Resource Management Act)
- ☐ Certificate of design work from licensed building practitioner
- ☐ Restricted building work - see page 5
- ☐ Key personnel - see page 6
- ☐ See page 5 for a schedule confirming the building work will comply with the Building Code

BC180913

**OFFICE
USE ONLY**

These have
been provided:

APPLICATION FORM (One copy)

- ☐ Fully complete all sections
- ☐ Means of Compliance with NZBC - designer to complete
- ☐ Provide the correct legal description (Council can help with this)
- ☐ Provide one copy of the current Certificate of Title, or Sales and Purchase Agreement - not more than one month old
- ☐ Give name and contact numbers of contact person (if not the owner)
- ☐ State the project location (street address or location details as near as possible if no address)
- ☐ Sign and date the form
- ☐ Agent Authorisation (section completed where applicable)
- ☐ Certificate/s of design work (LBP)

DESIGN BASIS (To be completed by the designer)

Please list the following basis for the building design:

- ☐ Wind zone
- ☐ Earthquake zone
- ☐ Snow zone/altitude
- ☐ Corrosion zone (if applicable)
- ☐ Building is specifically engineer-designed
- ☐ Complies with NZS 3604:2011
- ☐ Both specific design and NZS 3604:2011

DESIGN DOCUMENTS (One copy)

- ☐ Weather tightness risk matrix
- ☐ Truss design layout and Producer Statement
- ☐ Bracing calculations / plan
- ☐ H1 Energy efficiency calculations

SITE PLAN (One copy)

- ☐ Overview of site showing legal boundaries as per current Title
- ☐ Showing proposed and existing structures (including swimming pools)
- ☐ Distances to boundaries
- ☐ Proposed and existing site levels
- ☐ North point
- ☐ Utility infrastructure (sewer, water pipelines, septic tanks etc) where applicable
- ☐ Water races, drains, topographic features

DRAINAGE LAYOUT (One copy to scale usually 1:100 or 1:50)

- ☐ Foul water - showing waste pipes, sizes, grades, venting
- ☐ Foul water to discharge point
- ☐ Storm water - pipe sizes, grades, downpipe locations
- ☐ Storm water drain to discharge point

FOUNDATION LAYOUT (One copy to scale usually 1:100 or 1:50)

- ☐ Full foundation layout plan
- ☐ For timber floors, show all pile layout, pile types and bracing location
- ☐ Slab thickenings, shrinkage control joints and reinforcing rebates

☐
☐
☐
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☐
☐

BC180913

**OFFICE
USE ONLY**

These have
been provided:

FLOOR PLANS (One copy to scale usually 1:100 or 1:50)

- ☐ Layout of all floors fully dimensioned. For alterations and/or additions provide both new and existing floor plans
- ☐ Doors and window positions and sizes
- ☐ Layout of amenity areas (laundry etc)
- ☐ Main structural beams that are not shown elsewhere
- ☐ Lintel sizes
- ☐ HWC location
- ☐ Roof space access
- ☐ Gas cylinder location
- ☐ Room names
- ☐ Location of smoke alarms
- ☐ Location of heating unit (if applicable)

☐

EXTERIOR ELEVATIONS (One copy to scale usually 1:100 or 1:50)

- ☐ Elevations of all external walls showing claddings
- ☐ Doors and windows showing opening sections
- ☐ Show location of solar panels
- ☐ Accurate ground levels existing and proposed
- ☐ Subfloor ventilation for timber floors
- ☐ Show roof bracing on elevations if not shown elsewhere

☐

CROSS SECTION AND CONSTRUCTION DETAILS (One copy to scale usually 1:50 or 1:20 for sections and 1:10 for details - minimum scale)

- ☐ Roof lines, overhangs, floor levels, ground levels
- ☐ Major vertical dimensions
- ☐ Foundation, wall and roof structure materials
- ☐ Upper level decks or balconies over lower level room must be fully detailed including the stormwater disposal and overflow precautions
- ☐ Stairs, handrails and balustrade showing pitch and head clearances
- ☐ Structural connections, posts to footings, beams to posts, trusses or beams to walls
- ☐ Component fixing information is to be provided for all structural and framing components
- ☐ Foundation and footing details and reinforcing. Show height from finished floor to ground level
- ☐ Pile details for timber floors
- ☐ Floor bracing details
- ☐ Timber grade and treatment
- ☐ Damp proof membranes, building papers and insulation systems/materials
- ☐ Flashing details and documents
- ☐ Roof penetrations
- ☐ Shower floor details and wall to shower base junction detail
- ☐ Sealing to wet area fixtures
- ☐ Water splash prevention
- ☐ All other building components that are not otherwise detailed or are unusual in any way

☐

SPECIFICATION (One copy)

The specification must be for the project. We will not accept standard specifications unless they relate directly to the building and they cover the project accurately and fully. Multichoice specifications will not be accepted. A brief accurate specification is usually best.

- ☐ Provide a written specification to cover all of the trades involved in the project. All materials used in the project are fully specified including fixings of all materials and components
- ☐ The specification can be written on the drawings as long as all materials are fully covered

☐

BC180913

IMPORTANT THINGS TO INCLUDE IN YOUR APPLICATION (One copy - where relevant)

- ☐ The chartered professional engineer's Producer Statement
- ☐ The engineer's monitoring schedule if the engineer chooses to do site monitoring
- ☐ All structural calculations
- ☐ Structural details showing connections and details of the components
- ☐ Solar technical details and plumbing schematic
- ☐ Log fire and flue installation instructions.
- ☐ If log fire secondhand, engineer's certification required
- ☐ Current potable water test (current within 18 months)
- ☐ Effluent disposal design & ECan's copy of the submitted application form or approval
- ☐ Wastewater system designs when required to be done by a chartered professional engineer such as in a hazard zone

**OFFICE
USE ONLY**
These have
been provided:

☐

GEOTECHNICAL REPORT

- ☐ Unique report reference number provided, if applicable

☐

OFFICE USE ONLY

Further information required? ☐ Yes ☐ No

Date of acceptance: Officer:

OFFICE USE ONLY

Fee paid on application: \$ Date: Officer:

Date payment processed: Receipt Officer:

IMPORTANT INFORMATION

All the relevant information on this form is required to be provided under the Building Act 2004 and/or Resource Management Act 1991 for the Waimakariri District Council to assess your application. Under these Acts this information has to be made available to members of the public if requested. The information contained in this application may be made available to other units of the Council. You have the right to access the personal information held about you by the Council which can be readily retrieved. You can also request that the Council correct any personal information it holds about you.

APPLICATION INFORMATION

- (a) Project Information Memorandum (PIM):
A PIM will be issued within 20 working days provided all the required information is supplied with the application.
Processing time is stopped whenever further information is required and starts again when the correct information is received.
It is not mandatory to apply for a PIM. Applicants can choose not to apply for a PIM when they consider that the information would not be relevant for their building project.
A fee is required to accompany your PIM application (as per Council's fees and Charges Schedule).
- (b) Compliance Check:
Where a PIM is not sought, a Compliance Check will be undertaken to ensure your proposal complies with the District Plan.
- (c) Building Consent (BC):
A Building Consent will be processed within a maximum allowable time of 20 working days provided all the information required has been supplied. Processing time is stopped whenever further information is required and starts again when the correct information is received.
Once the Building Consent has been granted, you will receive notification, which will include an invoice for the fees payable. Once the fees are paid in full, your Building Consent will be issued. Work must not start until the Building Consent is issued, and any Resource Consent requirements have been resolved.
A Building Consent lapses and is of no effect if the building work to which it relates does not commence within 12 months after the date of issue of the Building Consent or any further period that the Building Consent Authority may allow.
- (d) Combined Project Information Memorandum & Building Consent Applications:
Applications for a combined PIM/BC will only be accepted when sufficient information is provided to permit the Building Consent to be processed.
If insufficient information is provided, then further information will be requested, or your application may be returned to you.
- (e) If the applicant does not own the land, they must provide written approval from the owner to submit this application.

LEVIES PAYABLE

Under the Building Act 2004 s53, s55 s402 Council are authorised to collect levies for the MBIE (Building Levy Order 2005) and BRANZ (Building Research Levy Act 1969). Levies are only payable on building works where the construction value exceeds a prescribed amount.

Building Act 2004 – <http://www.legislation.govt.nz/act/public/2004/0072/latest/whole.html>

Building Levy Order 2005 – <http://www.legislation.govt.nz/regulation/public/2005/0033/latest/whole.html#DLM313989>

Building Research Levy Act 1969 - <http://www.legislation.govt.nz/act/public/1969/0023/latest/whole.html>

INSPECTIONS

During the process of construction, inspections will be necessary to confirm all work complies with your approved Building Consent documentation. Please phone the Council Building Unit on 03 311 8906 at least 48 hours in advance of requiring an inspection to ensure that this can be arranged.

The inspections required will be set out in the Building Consent documentation issued by the Council. Failure to have a prescribed inspection carried out may put the issue of the Code Compliance Certificate at risk.

All inspections including re-inspections are subjected to a separate charge, even if carried out on the same day.

RESOURCE CONSENT

Your application will be assessed by the Planning Unit of the Council to determine whether your project complies with the relevant District Plan requirements.

If your application does not comply with District Plan requirements you will need to either amend your proposal to comply or apply for a Resource Consent. A Certificate will be attached to your Project Information Memorandum to notify that a Resource Consent is required prior to building work commencing. It is recommended that you phone the Planning Unit on 0800 965 468 to discuss the process.

CODE COMPLIANCE CERTIFICATE

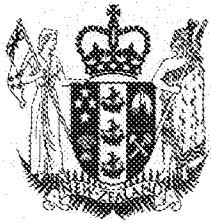
A Building Consent is not completed until it has been issued with a Code Compliance Certificate. The owner is required to complete a separate application for a Code Compliance Certificate as soon as practicable after the building work is completed. In any event no later than two (2) years after the granting of the Building Consent, Council is required to decide whether or not a Code Compliance Certificate can be issued. If your project will not be completed within two years you will need to apply for a time extension*.

*Fees apply

AGENCY

The owner may authorise an agent to submit an application on their behalf.

The Agent will be the first point of contact for all communications with the Council/Building Consent Authority regarding this application under Sections 33 and 45 and if authorised, the application for a Code Compliance Certificate under Section 92 of the Building Act 2004. They will receive all correspondence and must be authorised by the Owner - see page 8. All amendments require new authorisation.



COMPUTER FREEHOLD REGISTER UNDER LAND TRANSFER ACT 1952



R. W. Muir
Registrar-General
of Land

Search Copy

Identifier **567228**
Land Registration District **Canterbury**
Date Issued 07 March 2012

Prior References

538842

Estate Fee Simple
Area 5470 square metres more or less
Legal Description Lot 27 Deposited Plan 448155

Proprietors

Richard Nigel Durant Hudson and WA Trustee Limited

Interests

Subject to a right to drain water (in gross) over part marked J on DP 448155 in favour of Waimakariri District Council created by Easement Instrument 9000272.2 - 7.3.2012 at 10:51 am

The easements created by Easement Instrument 9000272.2 are subject to Section 243 (a) Resource Management Act 1991

Land Covenant in Easement Instrument 9000272.3 - 7.3.2012 at 10:51 am

9000272.4 Consent Notice pursuant to Section 221 Resource Management Act 1991 - 7.3.2012 at 10:51 am

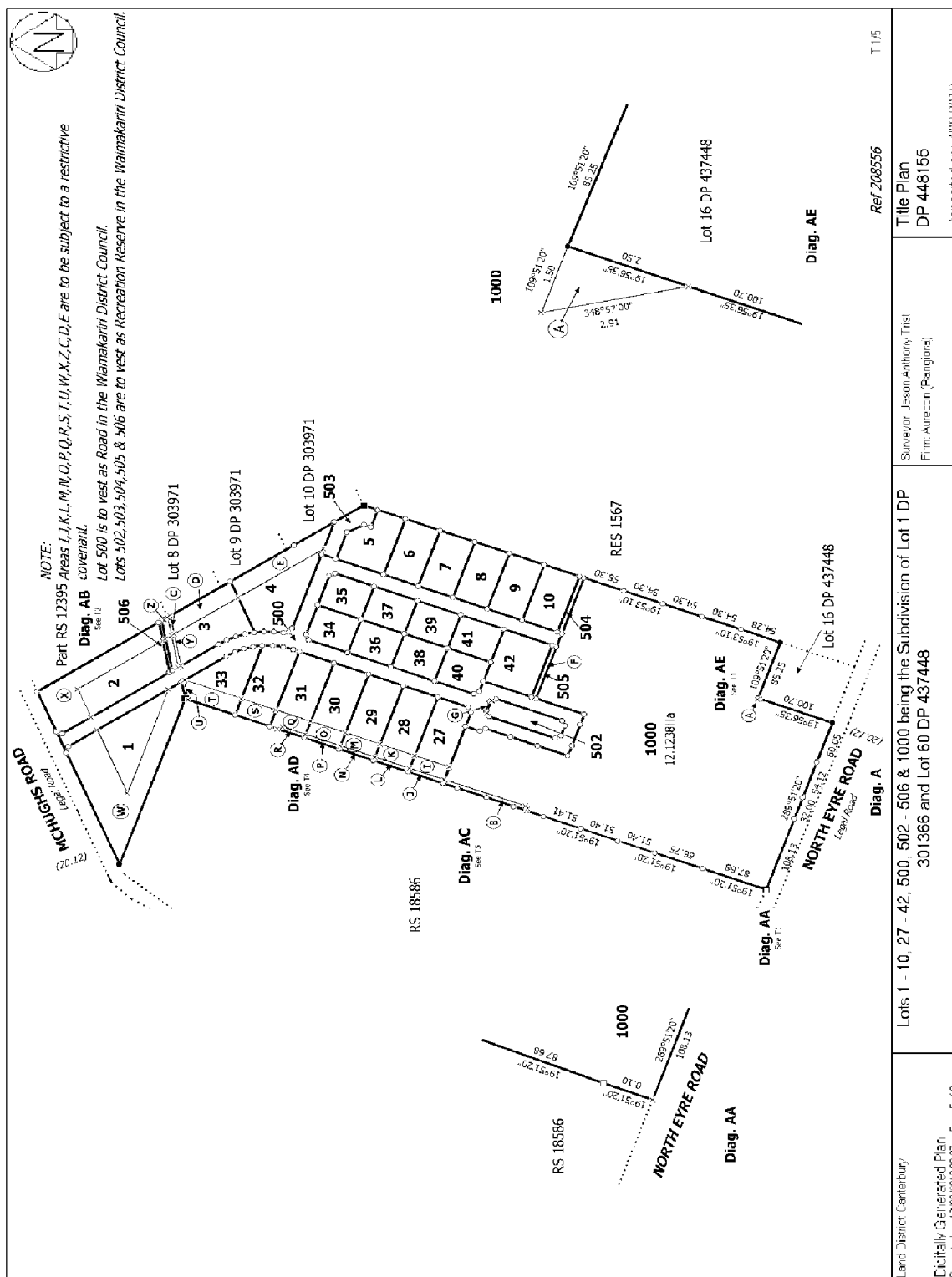
9000272.5 Consent Notice pursuant to Section 221 Resource Management Act 1991 - 7.3.2012 at 10:51 am

9000272.8 Consent Notice pursuant to Section 221 Resource Management Act 1991 - 7.3.2012 at 10:51 am

9000272.9 Consent Notice pursuant to Section 221 Resource Management Act 1991 - 7.3.2012 at 10:51 am

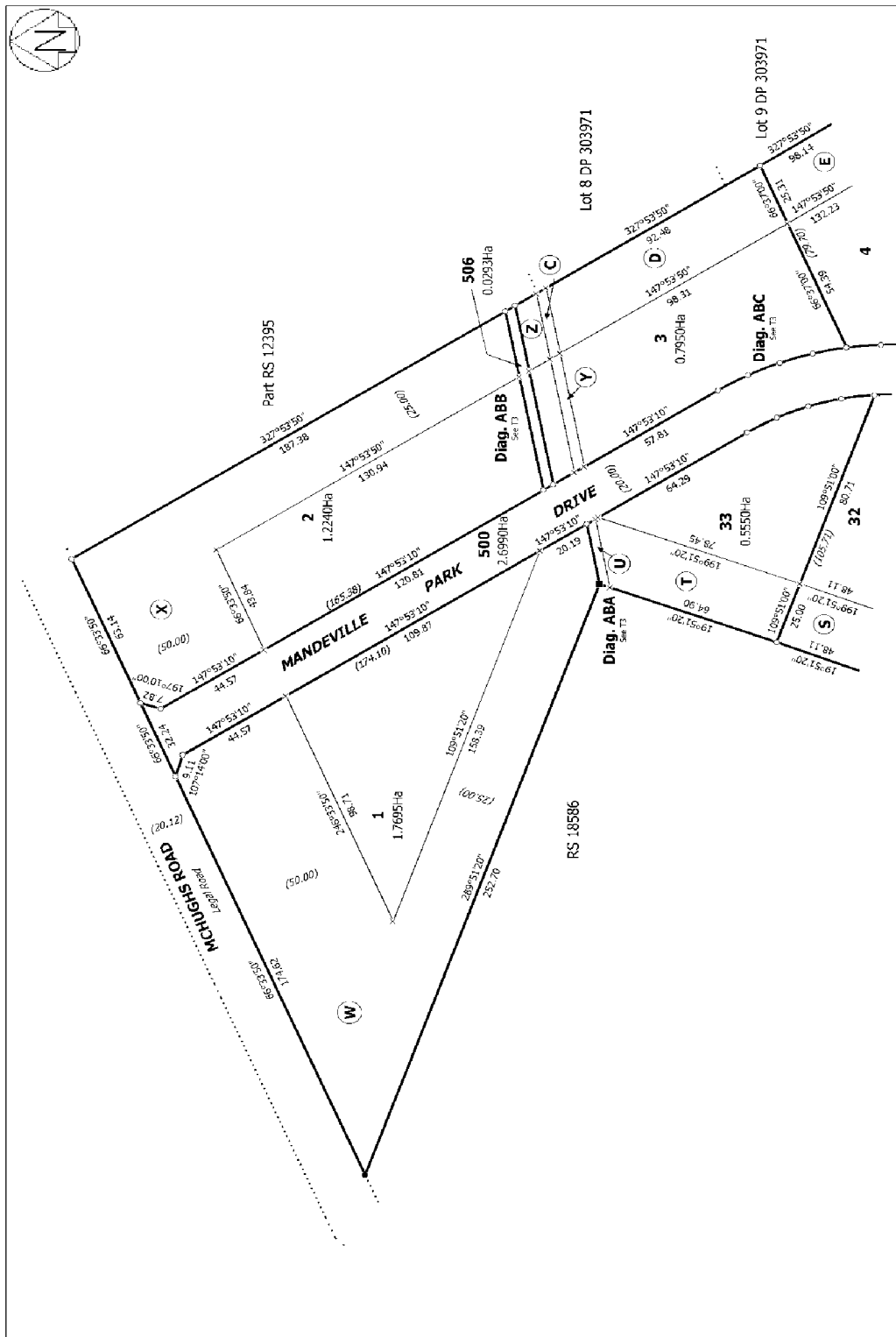
9000272.10 Consent Notice pursuant to Section 221 Resource Management Act 1991 - 7.3.2012 at 10:51 am

567228



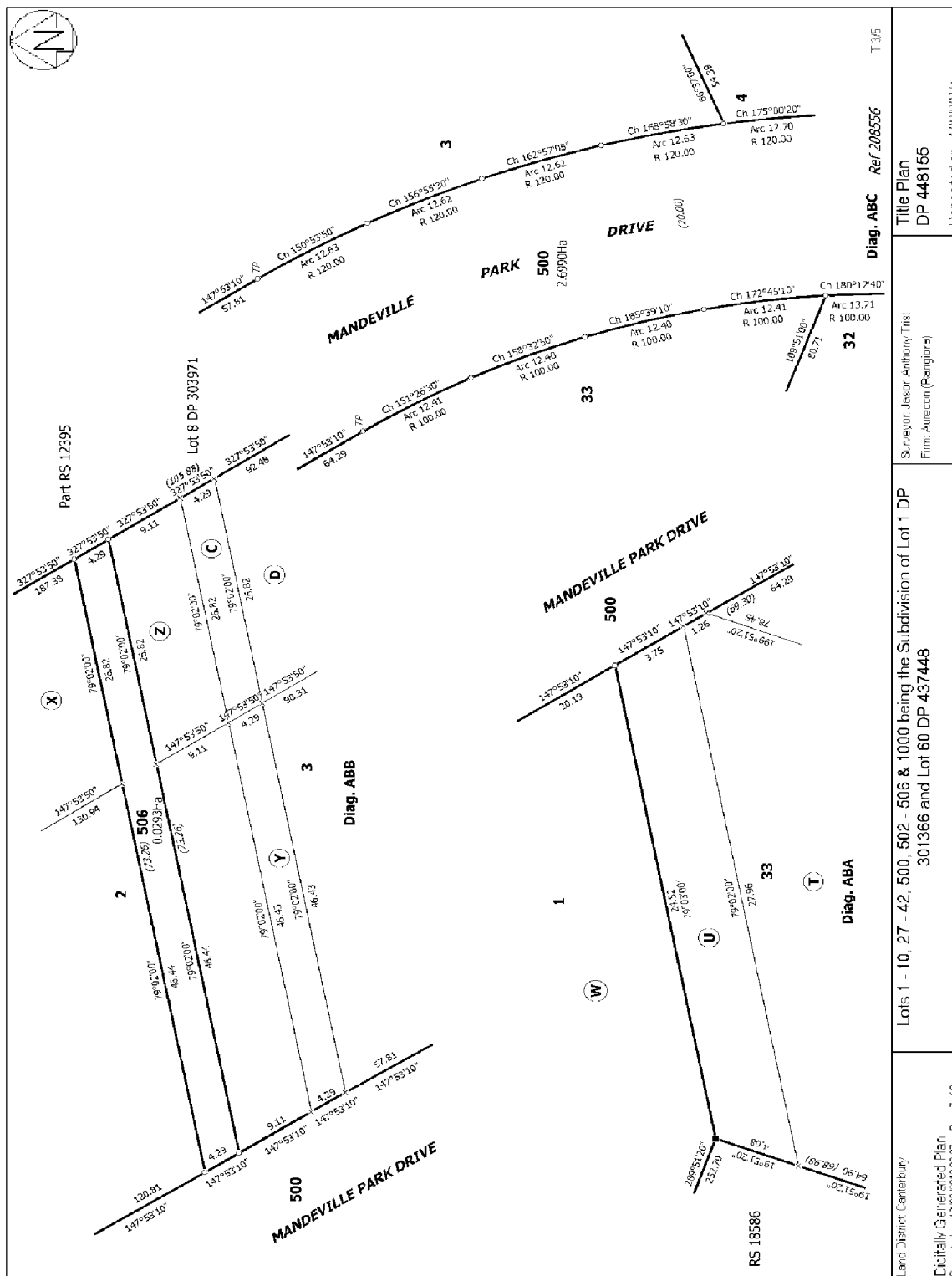
Identifier

567228



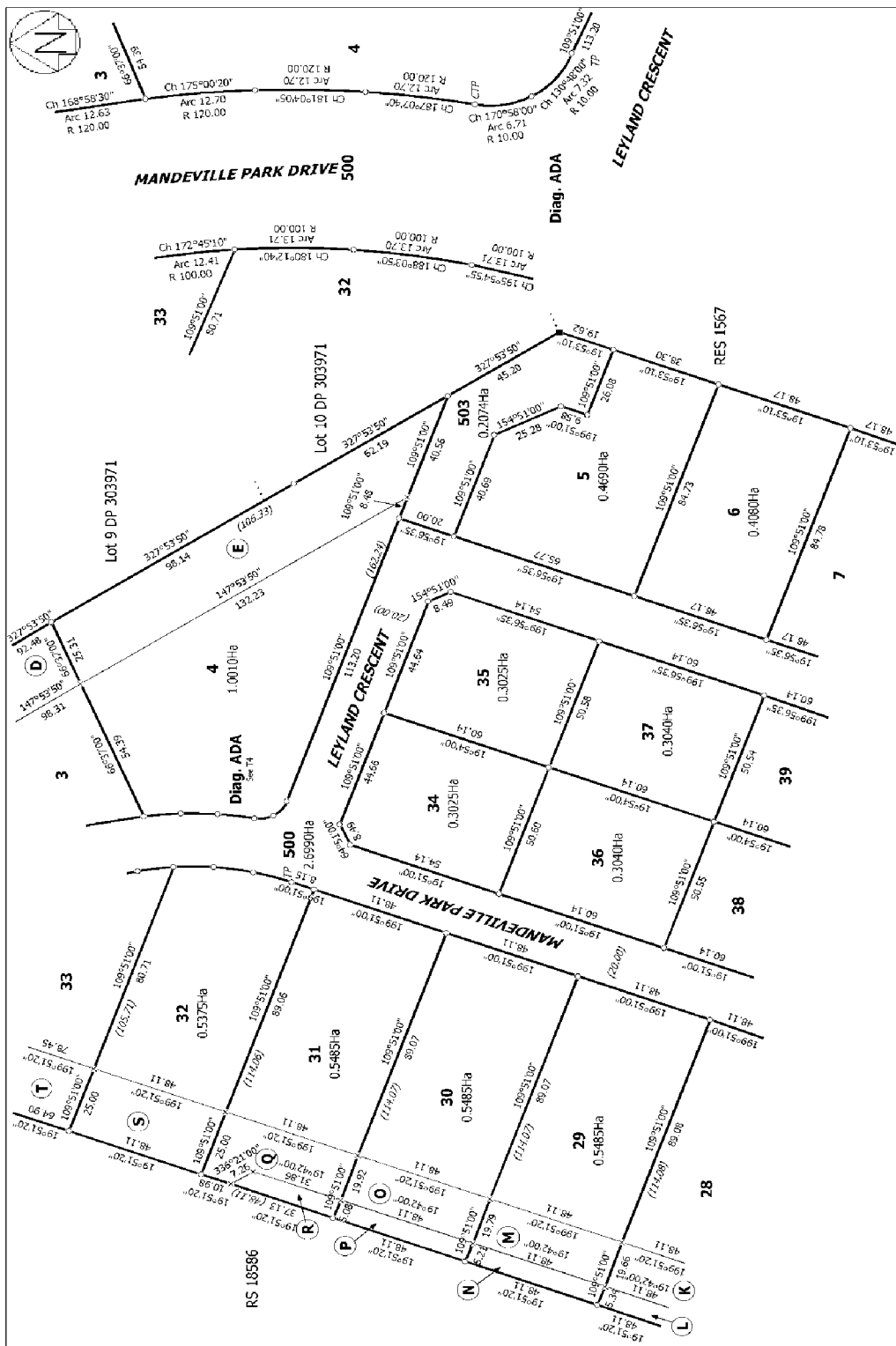
Ref 208556 T 2/5	Title Plan DP 448155 Deposited on: 7/03/2012	Surveyor: Jason Whitty Trust Firm: Aurecon (Pangloss)	Lots 1 - 10, 27 - 42, 500, 502 - 506 & 1000 being the Subdivision of Lot 1 DP 301366 and Lot 60 DP 437448	Land District: Canterbury Digitally Generated Plan Generated on: 12/03/2012 08:37am Page 6 of 9
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567228



Identifier

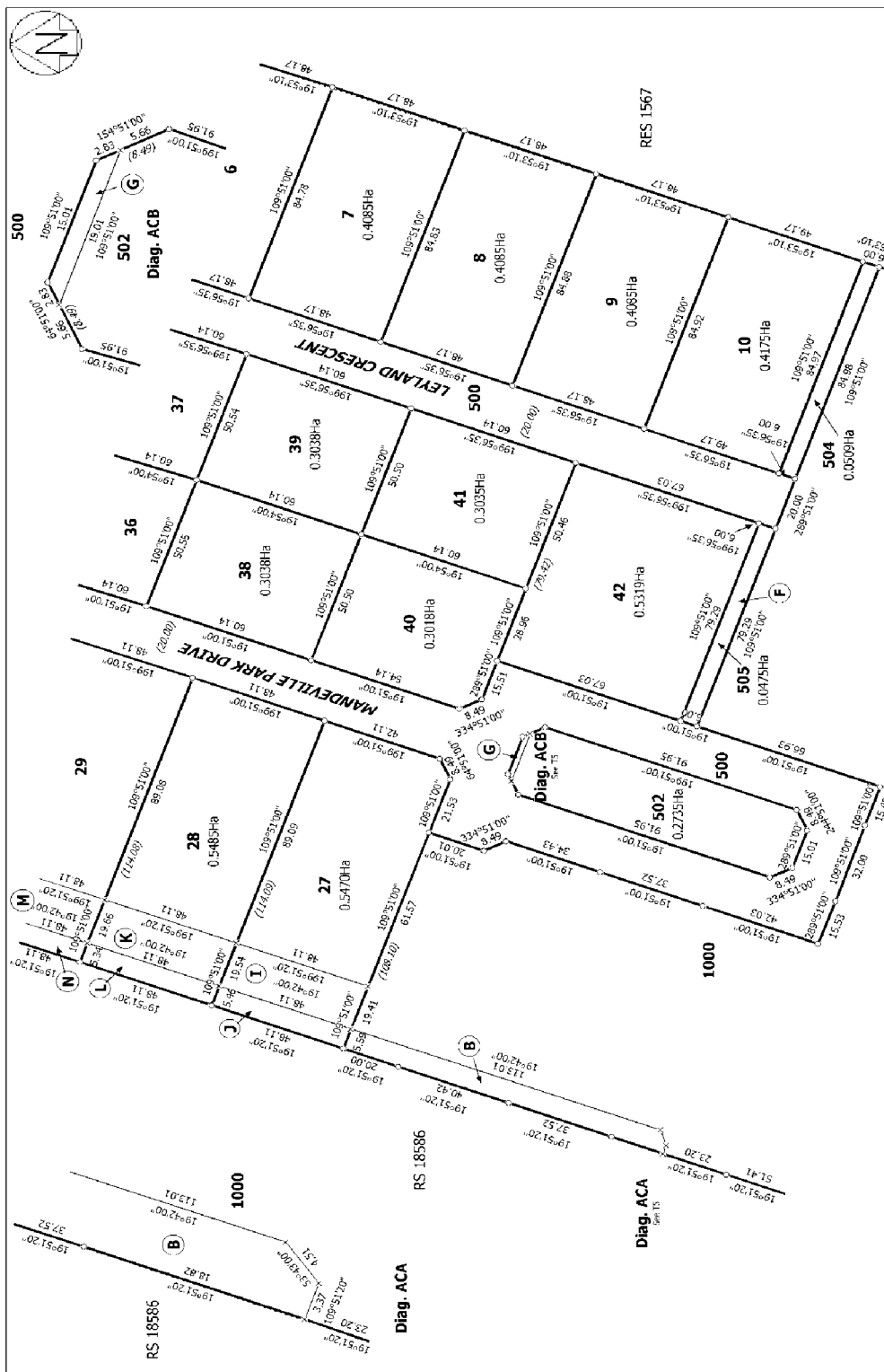
567228



Ref: 208556 T: 45	Title Plan DP 448155 Deposited on: 7/03/2012	Surveyor: Jason Whitty Trust Firm: Aurecon (Pangloss)	Land District: Canterbury
		Lots 1 - 10, 27 - 42, 500, 502 - 506 & 1000 being the Subdivision of Lot 1 DP 301366 and Lot 60 DP 437448	Digitally Generated Plan Generated on: 12/03/2012 08:37am Page 8 of 9

Identifier

567228



Land District: Canterbury	Diag. AC	Ref: 208556	T 55
Digitally Generated Plan Generated on: 12/03/2012 08:37am Page 9 of 9	Lots 1 - 10, 27 - 42, 500, 502 - 506 & 1000 being the Subdivision of Lot 1 DP 301366 and Lot 60 DP 437448	Title Plan DP 448155	Surveyor: Jason Whorby Trust Firm: Aurecon (Pangloss)
Deposited on: 7/03/2012			

SECTION 2

~~Geotech, Engineer~~ ~~Reports & Conditions~~ ~~PS1 & 2~~

- ~~- Calculations~~
- A4 Details



[NB: B2 aspects to be covered
by Totalspan's Manufacturers
Durability Statement, page 3]

Building Code Clause(s)..... **B1**

PRODUCER STATEMENT – PS1 – DESIGN

(Guidance notes on the use of this form are printed on page 2)

ISSUED BY: **Transparency Consulting Ltd**
(Design Firm)

TO: **Nigel Hudson**
(Owner/Developer)

TO BE SUPPLIED TO: **Waimakariri District Council**
(Building Consent Authority)

IN RESPECT OF: **12m Span Portal Building and under (IL = 1, DL = 50yrs, Sg = 0.90kPa, Vdes Θ = 37.31m/s)**
(Description of Building Work)

AT: **55 Mandeville Park Drive, Swannanoa, 7692, New Zealand**
(Address)

LOT: DP: SO:

We have been engaged by the owner/developer referred to above to provide **Structural Design**
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, AS/NZS 1170**
NZS 3101, AS/NZS 4600
(verification method / acceptable solution) OR

☐ Alternative solution as per the attached schedule

The proposed building work covered by this producer statement is described on the drawings titled **Portal Building**
and numbered **1-2, 4-5, 7-15**;
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 **225kPa Geotechnical Ultimate Bearing Capacity**
non-liquefiable soil

(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, **Andrew James Horton** am: ☒ CPEng **181283** #
(Name of Design Professional)

☐ Reg Arch#

I am a Member of: ☒ IPENZ ☐ NZIA and hold the following qualifications: **BE (Hons)**
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 **Andrew James Horton** ON BEHALF OF **Transparency Consulting Ltd**
(Design Firm)

Date: **20/July/2018** (signature)

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, IPENZ AND NZIA

SECTION 3

Truss Details & Bracing Details

(Include Fixings of Gib & Ecoply)

- Design IT Calcs**
- Hyspan etc.**

SECTION 4

H1 Calculations

Risk Matrix

SECTION 5

Specifications

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** 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

SECTION 6

Technical Information

(Manufacturer's Information)

- ~~Septic Tank & Effluent Design incl. fencing~~
- ~~ECan Approval Documents~~
- ~~Gas Fire~~
- ~~Heating Unit~~
- ~~Solar Panels~~
- ~~Central Heating Systems~~
- A4 Details/Acceptable Solution Extract
- ~~Well/Water Test~~

Site Report



Latitude:	-43.3875849532523	Critical Direction:	West Wind
Longitude:	172.523728609085	Md:	1.00
Elevation:	41.00	TC:	2.0
Importance Level:	1	Mz, cat:	0.91
Wind Region:	A7	Ms:	1.00
Average Height:	3.49	Mt:	1.00
ULTIMATE VR:	41 m/s	WIND SPEED (Vsit, β):	37.31 m/s
ULTIMATE ARI:	_100YEARS	WIND PRESSURE (qsit, β):	0.8352 kPa



WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
 Regulations 1992, Clause 3
 BC180913 22/08/2018 michaelmo

Legend	
	T.C.1
	T.C.1.5
	T.C.2
	T.C.2.5
	T.C.3
	T.C.4

Customer Name:

Nigel Hudson

Site Address:

55 Mandeville Park Drive Swannanoa 7692 New Zealand

Project Reference:

1478745

Sediment Control Management Plan

Date: 31/08/2018

Client: Hudson Project

Address: 55 Mandeville Park Drive, Swannanoa

This erosion and sediment control plan has been prepared in accordance with Environment Canterbury's Builders Pocket Guide (BPG) and Erosion and Sediment Control Guidelines (2007). For more information and guidance on good practice requirements please refer the Builders Pocket Guide website (www.bpg.co.nz).

We propose to manage erosion on the site in the following ways:

- The site is only excavated for the foot print of our building; the rest of the site will remain undisturbed.
- The drive is used for access to and from the site.
- Our buildings are relatively quick to build so the site is kept tidy and rubbish free at all times.
- Our company has instructed our concrete supplier to clean all trucks on site within a bunded area.
- Our contract manager will also assess the site for sediment control before works begin to ensure appropriate measures are in place.

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Plans and specifications APPROVED in accordance
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BC180913 22/08/2018 michaelmo

Totalspan Stormwater Management Plan

DATE: 31/07/2018

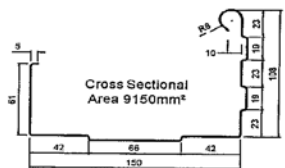
CLIENT NAME: Hudson Project

ADDRESS: 55 Mandeville Park Drive, Swannanoa

ROOF AREA OF TS BUILDING: 101 m²

DOWNPIPE SIZES: 2 x 65 mm

GUTTER PROFILE:



Gutter Profile

PLAN:

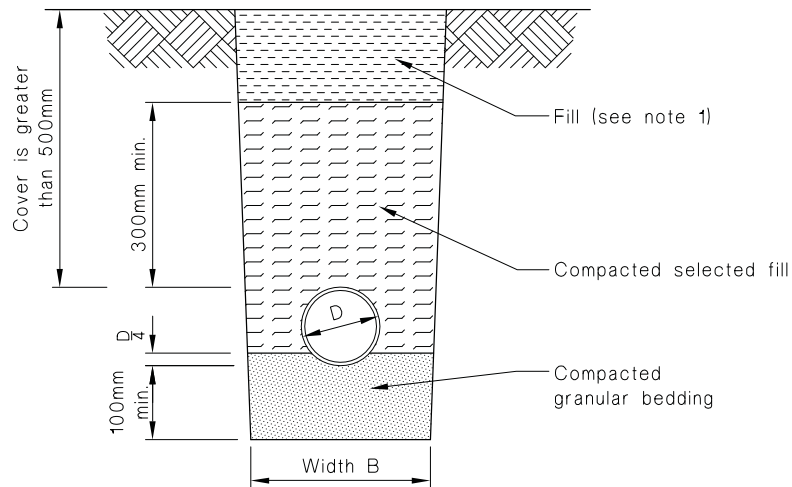
The stormwater management plan is to connect the 2 x 65mm downpipes into a 100 mm uPVC stormwater pipe and go at 1:100 fall into a new soakpit, as per the site plan.

Thank you.

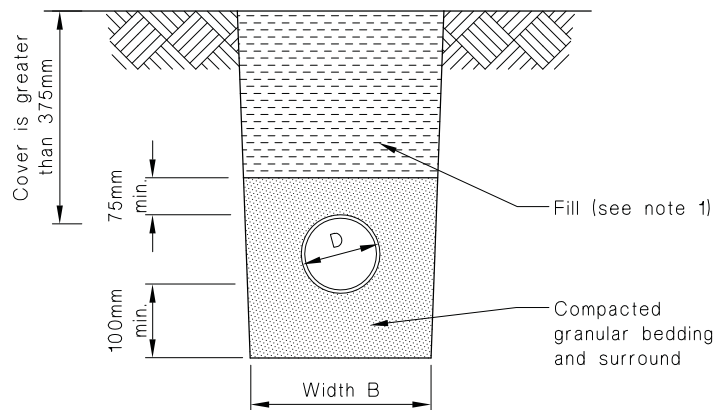
Benjamin Warren.

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Regulations 1992, Clause 3
BC180913 22/08/2018 michaelmo

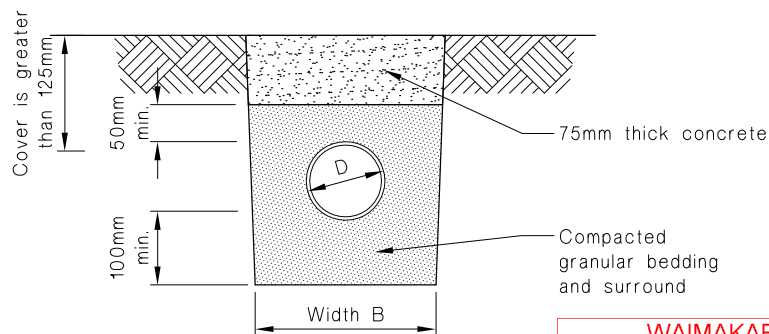
Figure 13: Bedding and Backfilling
Paragraphs 3.9.2, 3.9.4 and 3.9.5



(a) Cover greater than 500 mm
Bedding type 'B' of NZS 4452



(b) Cover greater than 375 mm
Bedding type 'D' of NZS 4452



(c) Cover greater than 125 mm

NOTE:

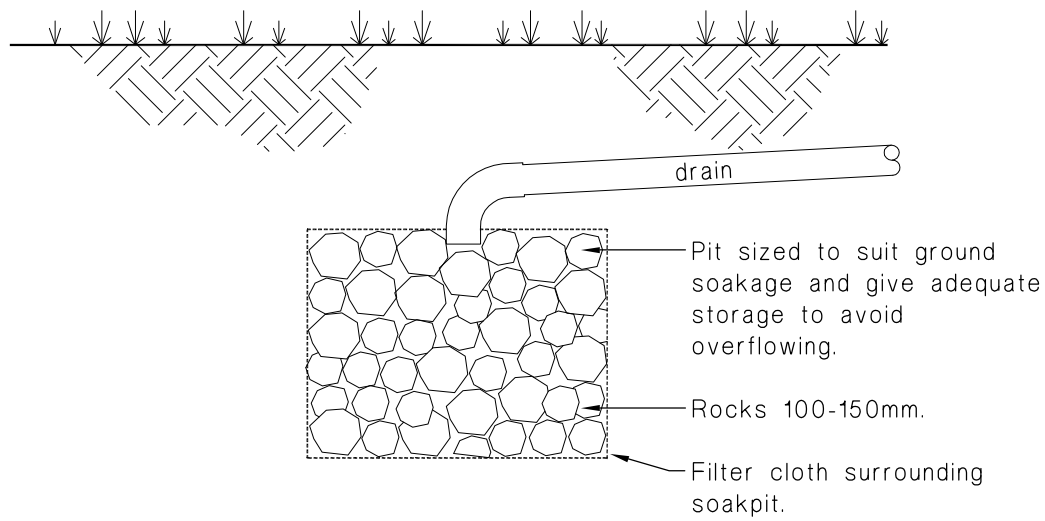
1. Fill shall be:

-Ordinary fill where drains are located below gardens and open country.

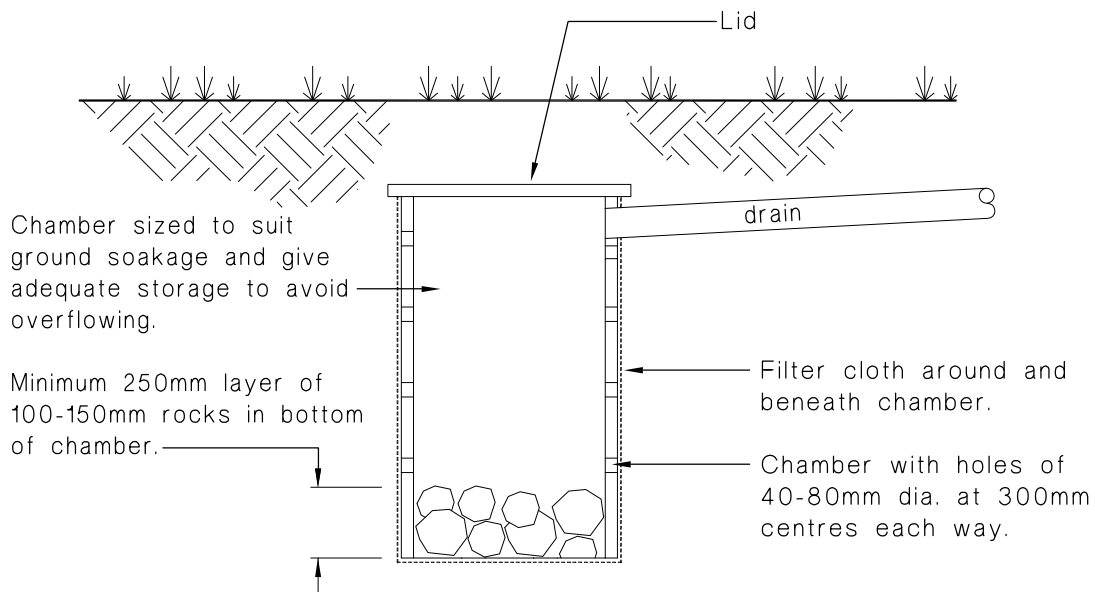
-Compacted selected fill where the drains are located below residential driveways and similar areas subjected to light traffic.

WAIMAKARIRI DISTRICT COUNCIL
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BC180913 22/08/2018 michaelmo

Figure 13: Soak Pit for Surface Water Disposal
Paragraph 9.0.4



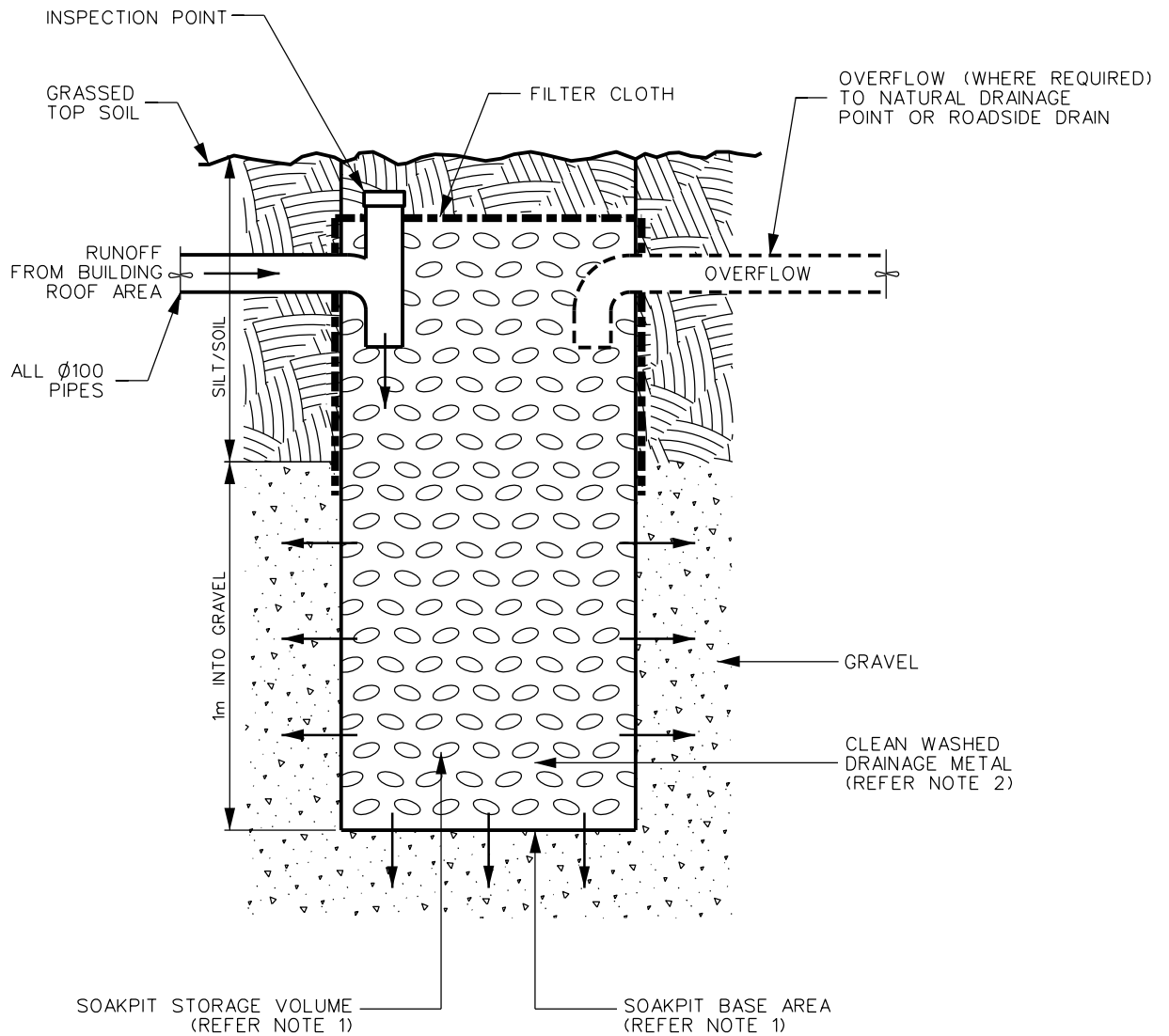
(a) Rock soak pit



(b) Chamber soak pit

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Regulations 1992, Clause 3
BC180913 22/08/2018 michaelmo



112m2 roof area

NOTES:

1. SOAK PIT SIZING - PROVIDE 1m² OF BASE AREA PER 100m² OF ROOF AREA AND 2m³ OF STORAGE VOLUME PER 100m² OF ROOF AREA (ALLOW 0.38 FACTOR FOR VOID SPACE) OR ALTERNATIVELY PROVIDE FULL DESIGN CALCULATIONS IN ACCORDANCE WITH VERIFICATION METHOD EI/VMI SECTION 9.
2. CLEAN WASHED DRAINAGE METAL - TO BE EITHER TAILINGS 20mm-40mm, ROUNDS 40mm-65mm, BOULDERS 65mm-120mm, ROCKS 100mm-150mm OR SIMILAR.

DRAFT

PERMAGLAS XL

INDUSTRIAL GRADE FIBREGLASS

New Zealand's leading manufacturer of industrial fibreglass sheeting introduces the latest in surface coat technology and backs it with a 20 year warranty.



WAIMAKARIRI DISTRICT COUNCIL
Plans and specifications APPROVED in accordance
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Regulations 1992, Clause 3
BC180913 22/08/2018 michaelmo



AMPELite

makes light work!

- Improved light transmission over a longer period of time.
- Improved durability as surface erosion is reduced.
- Improved resistance to yellowing and discolouration.
- 20 year warranty protection, for water penetration.
10 year warranty on light transmission.



PERMAGLAS XL

INDUSTRIAL GRADE FIBREGLASS

Ampelite, New Zealand's leading manufacturer of Industrial fibreglass sheeting, has utilised an advanced new surface protection film recently developed in the UK to manufacture Perma-Glas XL. This new film offers a considerable increase in light transmission levels and durability performance over standard fibreglass sheeting. At Ampelite New Zealand state of the art manufacturing facility, the very best of raw materials and the latest resin technology are used to manufacture Perma-Glas XL. As Perma-Glas XL emerges from Ampelite's 40 metre curing ovens, stringent quality control procedures are enforced to ensure Perma-Glas XL will meet the consistently high level of quality and performance. Perma-Glas XL offers a 20 year water penetration and 10 year light transmission warranty making Perma-Glas a durable, cost effective alternative.

Suitable for the following profiles

Perma-Glas XL is available to suit the commonly manufactured profiles in New Zealand and is manufactured to comply with AS/NZ54356.3:1994, part 2. Perma-Glas XL is suitable for curved roof applications. Curved roof radius to suite 1800g/m² corrugated and 5 Rib minimum radius 3.8 metres. 2400 g/m² corrugated and 5 Rib minimum radius 4.0 metres.

Specification

The Translucent Sheeting shall be Ampelite Perma-Glas XL industrial quality sheeting, manufactured by Ampelite New Zealand Ltd, to comply with AS/NZ54256.3:19947, part 2. The gauge/weight of the sheet shall be _____mm/gsm and shall be manufactured to conform with the nominated profile and colour. The sheeting shall be installed in accordance with Ampelite's fixing instruction or comply with the design loading requirements of NZ4703-1992 and NZ36041-1990.

Installation

1. Pre-drill oversize holes to allow for expansion and contraction of sheet.
2. Use appropriate fixing assembly including a 32mm Weatherlock seal to ensure a firm, watertight sheet.
3. Apply a protective foam or fibreglass strip between mesh and fibreglass sheet at each purlin.

Spanning Capacity

Series	1800/1.1mm	2400/1.4mm	3000/1.7mm
Corrugated	1000	1200	1300
6 Rib	1000	1200	1300
5 Rib	1200	1500	1700
Trimline	1200	1500	1700
SS900/Topsan	1600	1800	2000
LT7	1400	1700	1800
BB900	1400	1700	1900
DD400/BB400	1200	1400	1600

Available from



4. For endlaps, apply a self adhesive closed cell foam strip directly over the purlin between the overlapping sheets.
5. Store sheets in a dry and fire safe area. Do not store heavy materials on sheets as they may fracture.
6. Pan fixing is recommended for cladding. Fixing shall occur in every pan at ends and every other at intermediate.

Ampelite sheeting matching clip-fixed deck profiles should be side lapped with overlaps on both sides. Sheet should be installed the same as positive fixed profiled roofing.

IMPORTANT: Ampelite sheeting should be installed by pre-drilling over size holes to allow for contraction. The basic calculation shall be 0.75mm per lineal metre, plus the shank diameter of the fastener.

EXAMPLE: 10 mtr sheet - 10 x 0.75 + 4mm (fastener) = 11.5mm per drilled hole.

NOTE: All installation should comply with the design loading requirements of NZ4203-1992 and NZ3604-1990.

Physical Properties

Tensile strength	80MPA (min requirements 55 MPA)
Impact strength	8 Joules
Shear strength	90 MPA
Modules of elasticity	5500 MPA
Compressive strength	135 MPA
Flexural strength	150 MPA
Specific gravity	1.45
Thermal expansion	3.0 x 10 ⁻⁵ cm/C
Thermal conductivity	0158 watt/mC
Water adsorption	.2% in 24 hrs/26C
Service temperature	Range 20C to 95C

Typical transmission levels (for series 1800/1.1mm)

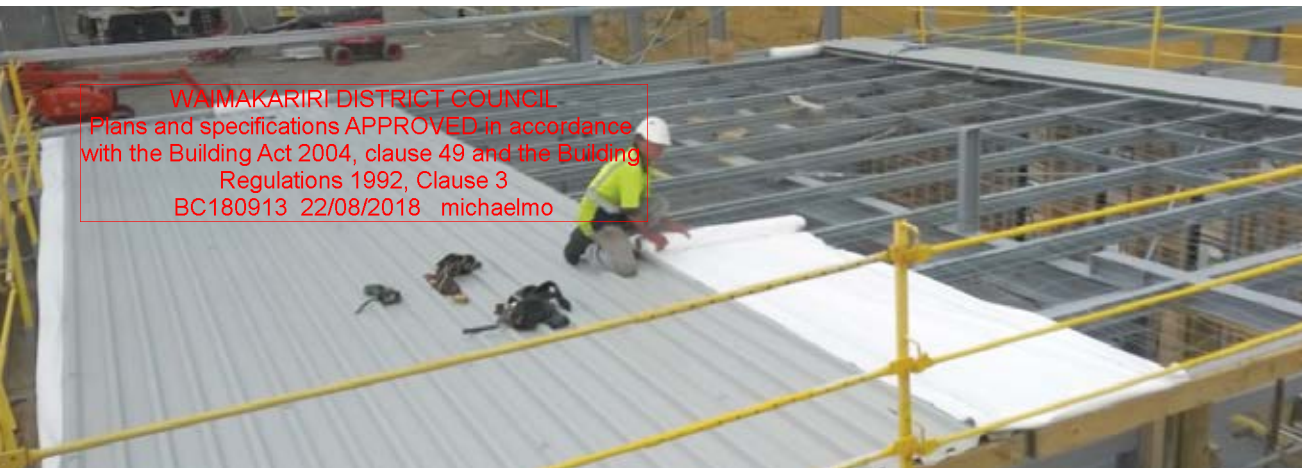
Sheet Colour	Light Transmission
Clear	84%
Mist	78%
Opal	70%
Coolite	45%
Green	74%
Blue	60%
Grey	35%



79 Captain Springs Rd, Onehunga, Auckland
Freephone: 0800 AMPELITE (0800 267 354)



COVERTEK 403 Plus



WAIMAKARIRI DISTRICT COUNCIL
Plans and specifications APPROVED in accordance
with the Building Act 2004, clause 49 and the Building
Regulations 1992, Clause 3
BC180913 22/08/2018 michaelmo

SYNTHETIC ROOF & WALL UNDERLAY

For Timber and Steel framed buildings

Covertex 403 Plus is a fire retardant, absorbent and breathable synthetic roof and wall underlay, constructed using a microporous water resistant film sandwiched between two layers of shrink resistant spun-bonded polyolefin. Designed as a means of managing condensation, water vapour transfer and water ingress in roof and wall applications.

ADVANTAGES

Roof

- » Suitable with masonry tile roof cladding; and
- » With metal tile and profiled metal roof cladding
- » Can be used as a roof underlay on roofs of 10 degrees pitch or greater. Requires support.
- » Will provide temporary weather protection during construction (roofs 7 days) same day coverage recommended
- » May be installed in adverse conditions.
- » May be run to any length, including under dark coloured roofs
- » Has a 150mm lap line printed on each edge

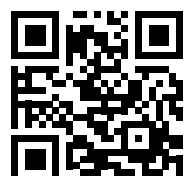
Wall

- » Can be used as a wall underlay on timber and steel framed buildings with absorbent wall and non-absorbent wall cladding direct fixed to framing.
- » Can be used as a wall underlay on timber and steel framed buildings with absorbent and non-absorbent wall cladding installed over an 18mm minimum drained cavity.
- » Is suitable for use in all Wind Zones of NZS 3604 up to, and including, Very High, when used as standalone flexible underlay, and Extra High when used as a flexible underlay over a rigid wall underlay
- » Will provide temporary weather protection during construction. (Walls max 42 days)
- » Can be used as a non-rigid backing material for Stucco Plaster*
- » May be used as a slip layer over rigid backing for Stucco*

General

- » Is fire retardant*
- » Unaffected by LOSP treated timber.
- » Recyclable with no VOC's,
- » Tear resistant, light weight and strong
- » Suitable as an air barrier in unlined walls

* Refer technical specifications



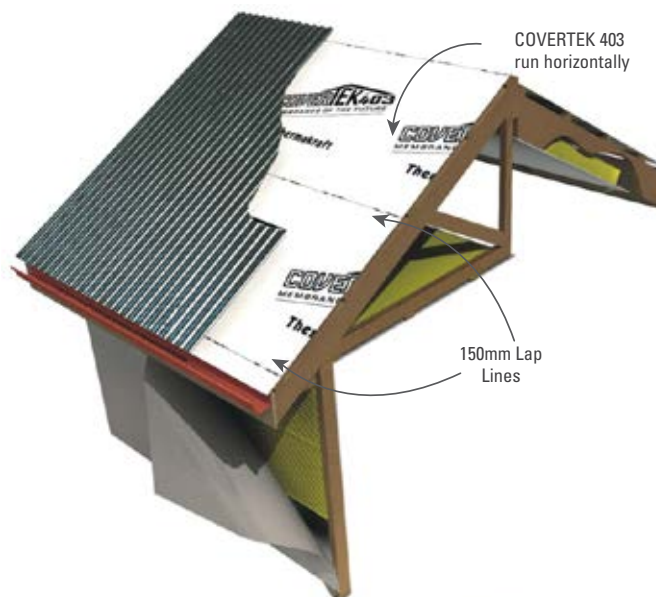
For additional details and latest specifications www.thermakraft.co.nz or scan QR code.

Thermakraft Roof Underlay

INSTALLATION PROCEDURES

DOMESTIC: LONG-RUN METAL ROOFING / VERTICAL OR HORIZONTAL INSTALLATION METHOD

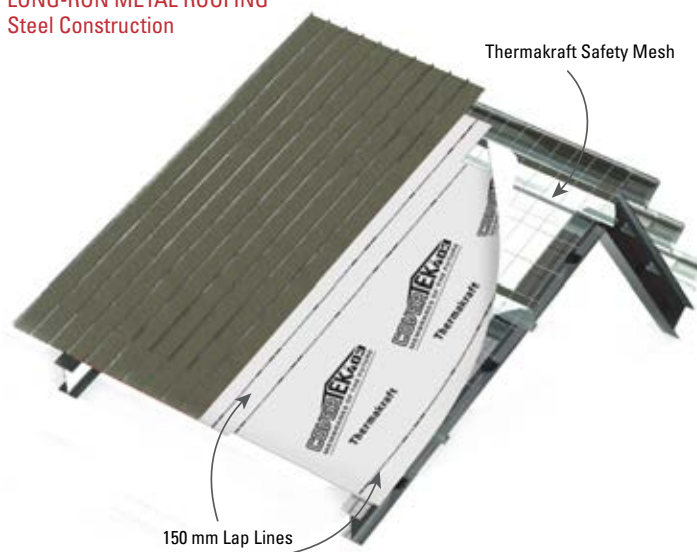
1. Covertek 403 Plus can be direct fix or cavity fix and must be installed in a manner that prevents ponding of water.
2. Covertek 403 Plus must be fully supported by Thermakraft Safety Mesh 300mm x 150mm, hexagonal netting 50mm or 75mm. Or suitable strapping, Thermastrap recommended under aluminum roofing.
3. For roof pitches below 10 degrees, Covertek 405 or 407 recommended
4. Must be laid firmly (tight) without creases. All laps either vertical or horizontal must be a minimum of 150mm lap.
5. Fix using stainless steel 8-12mm staples or 20mm flat head clouts, or appropriate proprietary fastenings



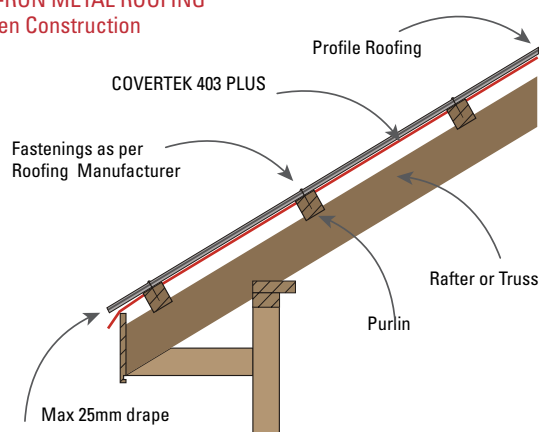
COMMERCIAL: LONG-RUN METAL ROOFING >10°

1. Covertek 403 Plus shall be installed in a manner that prevents ponding of water by full support using Thermakraft Safety Mesh 300mm x 150mm, or hexagonal netting 50mm or 75mm. Or suitable strapping, Thermastrap recommended under aluminium roofing.
2. May be installed either vertically (same direction as cladding) or horizontally shiplapped.
3. All laps either horizontally or vertically must be at a minimum of 150mm.
4. To be lapped into gutter 20mm and extended up to and over ridge.
5. May be unwound to the full length from the gutter to the ridge. However, when ridge ventilation is required must be terminated at the ridge purlin to allow a free passage of air.
6. Flue penetrations must have a minimum distance of 50mm from the underlay (refer to NZ Metal Roof and Wall Cladding Code of Practice 4.3.8)
7. Must be free of tears and punctures, fit tightly and be lap taped around all penetrations (except flue penetrations), to provide drainage for any condensation, or surface water from leaks.
NOTE: Penetrations where polybutylene water pipes have been installed. Refer Pipe Manufacturers for instructions on sealing penetrations.
8. Can be installed above the battens or purlins for profiled metal roof claddings and otherwise in accordance with NZBC E2/AS1.

LONG-RUN METAL ROOFING Steel Construction



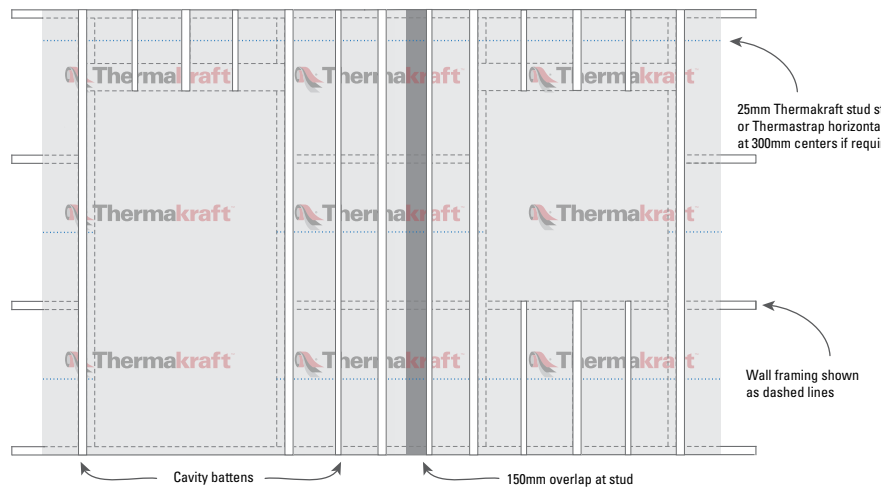
LONG-RUN METAL ROOFING Wooden Construction



Thermakraft Wall Underlay

INSTALLATION PROCEDURES

1. Fix Underlay with printed side facing the exterior
2. Fix to all exterior walls from below bearers to the top plate. Pull the underlay tight and fix securely to the frame with fasteners such as galvanized Little Grippers, 6mm-8mm staples or 20mm large head galvanized clouts at 300mm centres horizontally and vertically. Additional fasteners should be used around each opening to be cut out.
3. Thermakraft underlays are available in two widths 2740mm and 1370mm. The 2740mm is generally wide enough to come from below the bottom plate to the top plate.
4. When fixing underlay to Steel framing the same procedures applies, use adhesive spray or tape or flat head screws to fasten to the framing or thermal break, the exterior cladding fastenings will act as the permanent fixings.
5. Cover all windows and door openings with underlay.
6. It is recommended that the wall underlay is not cut and prepared for window installation until the arrival of the windows.
7. A minimum of 150mm lap is required at joins, all vertical laps must be made over studs. Horizontal laps to be laid ship lap style allowing water to be shed to the outer face of the membrane
8. When windows and doors are ready for installation, the underlay covering the openings should cut at 45 degree and folded into the opening and securely fastened Thermakraft Aluband Window Sealing System is recommended as the window flashing system.
9. NB. In accordance with NZBC Acceptable Solution E2/AS1 Paragraph 9.1.8.5, wall wrap must be prevented from bulging into the drained cavity. Where stud spacing is greater than 450mm Thermakraft stud strap run horizontal at 300 centres is an acceptable means of prevention.
10. Once installed Thermakraft underlays may be left exposed to the weather (refer table below for Maximum time) Thermakraft underlays will provide temporary weather protection during construction allowing work to continue. Internal linings and insulation must not be installed until the exterior cladding is completed
11. Fastenings behind Brick Veneer Cladding must have an equivalent service life to that of Brick Veneer (50 years). Refer to NZBC 3604 Table 4.1, and 4.3.
12. Make good any forced tears with Thermakraft White GP tape. Any large areas which require repair may be covered with a second layer of underlay, a lap of 150mm is required.



EXPOSURE TIME

Product	Watergate Plus 295	SteelWrap 290	Thermakraft 220	Thermakraft 213/215	Covertex 403 Plus	Covertex 407/405
Max Days exposure	60	42	42	Wall application 28 Roof application 7	Wall Application: 42 Roof application: 7	Wall Application: 14 Roof application: 7

HANDLING AND STORAGE

- » Due to the width of the sheets care should be taken when installing in windy conditions due to the large sail effect.
- » Store in clean dry conditions, not in direct sunlight.
- » Ensure rolls are not damaged
- » There are no environmental issues associated with the use of Thermakraft underlays .

Covertex 403 Plus - Technical Specification

Fire Retardant | Breathable | Absorbent | Non Woven | Underlay

Wall: Thermakraft Covertex 403 Plus can be used as a wall 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 absorbent and non-absorbent wall claddings directly fixed to timber and steel framing; and,
- » With absorbent and non-absorbent wall claddings installed over an 18mm minimum drained cavity;
- » With masonry veneer in accordance NZBC Acceptable Solution E2/AS1 for timber framed buildings, or to a specific design for steel framed buildings; and,
- » Situated in NZS3604 Wind Zones up to, and including 'Very High' when used as standalone flexible underlay, and
- » Extra High when used as a flexible underlay over a rigid wall underlay.
- » Can be used as a non-rigid backing material for Stucco Plaster in accordance with the requirements of NZBC Acceptable Solution E2/AS1 Paragraph 9.3.5.1. The Underlay must be supported with 75mm galvanized mesh, or Thermakraft Stud Strap Hand Held or wire at 150mm centres run across cavity battens to limit deflection to a maximum of 5mm.
- » May also be used as a slip layer over rigid backing for Stucco Plaster in accordance with the requirements of NZBC E2/AS1 Paragraph 9.3.3.1(b).
- » Refer BRANZ Appraisal No 918 (2016) for full details

Roof: Thermakraft Covertex 403 Plus 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 (ROOF ONLY)
- » Can be used as a Roof underlay on roofs of 10 degrees pitch or greater. Requires support
- » Refer BRANZ Appraisal No 917 (2016) for full details

Flammability Index

Thermakraft Covertex 403 Plus Wall Underlay has an AS 1530 Part 2 Flammability Index of not greater than 5 and therefore meet the requirements of NZBC Acceptable Solutions C/AS2 to C/AS6, Paragraph 4.17.8 b), for the surface finish requirements of suspended flexible fabric used as an underlay to exterior cladding that is exposed to view in occupied spaces. It may therefore be used with no restrictions in all buildings.

Limitations

- » Is suitable as an air barrier in unlined wall spaces.

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 42 days (wall), 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) wall and 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
Air Resistance	≥ 0.1 MN.s/m ³	403 Plus can be used as an air barrier

Roll Dimensions

WIDTH (MM)	LENGTH (M)	M ²
1350	18.6	25
1350	37.0	50
1350	55	75



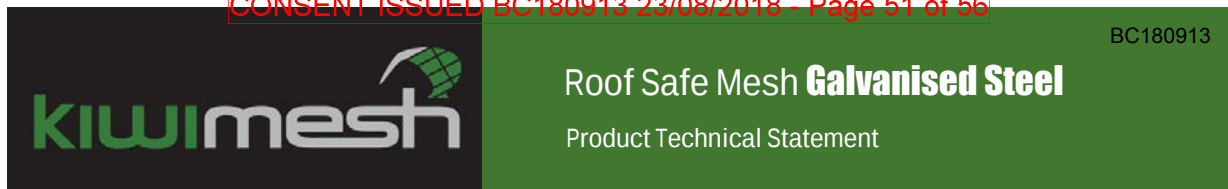
For additional details and latest specifications www.thermakraft.co.nz



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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

The recommendations contained in Thermakraft's literature are based on good building practice, but are not an exhaustive statement of all relevant information and are subject to any conditions contained in the Warranty. All product dimensions and performance claims are subject to any variation caused by normal manufacturing process and tolerances. Furthermore, as the successful performance of the relevant system depends on numerous factors outside the control of Thermakraft (for example quality of workmanship and design), Thermakraft shall not be liable for the recommendations in that literature and the performance of the Product, including its suitability for any purpose or ability to satisfy the relevant provisions of the Building Code, regulations and standards. Literature subject to change without notification. Latest documentation can be found on the website.



SUMMARY OF FEATURES

- A welded galvanised steel wire mesh used as a support for roofing underlays and insulation. It also provides a safety net against falls during initial roof installation and for ongoing maintenance work.
- Suitable for both timber and steel structures.
- Complies with Safety Mesh Standard AS/NZS 4389: 2015.

TECHNICAL INFORMATION

WAIMAKARIRI DISTRICT COUNCIL
Plans and specifications APPROVED in accordance
with the Building Act 2004, clause 49 and the Building
Regulations 1992, Clause 3
BC180913 22/08/2018 michaelmo

Product Description

Kiwimesh Roof Safe Mesh consists of a welded, mild steel wire mesh with longitudinal wires spaced at 150mm centres and cross wires spaced at 300mm centres.

It is comprised of a 2.0mm diameter galvanised wire with a tensile strength exceeding 450mpa. T

Applications

- Provides fall-through protection during roof installation and ongoing maintenance.
- Suitable for use on timber and steel framing.

Technical Data

Complies with Safety Mesh Standard AS/NZS 4389: 2015:

Limitations

Not to be used for access or as a working platform.

Handling & Storage

Rolls must be stored on end, under cover and protected from moisture. Do not double stack or use to support other materials. Rolls must not be stored on concrete floors for long periods.

Size Range Available



Roof Safe Mesh - PVC Coated Product Technical Statement

Fixing instructions

Before installation check with the local code of practice for safe work on roofs.

Transverse wires shall be on top of the longitudinal wires.

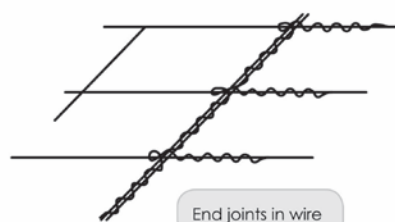
All longitudinal wires are passed around anchor points with the tail of each wire being twisted four times around the main portion of the same wire.

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 two transverse wires.

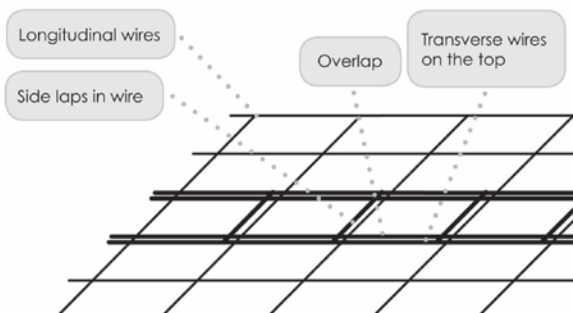
Side laps (i) For purlin spacing/span less than 1200mm, the runs of mesh shall be side-lapped by a minimum of one mesh spacing (150mm). (ii) For purlin spacing/span between 1200-2200mm, the runs of mesh shall be side-lapped by a minimum of one mesh spacing (150mm). Side laps shall be secured with ring fasteners fabricated from minimum 1.90mm diameter wire, or equivalent, fitted at maximum 900mm centres between each purlin on one side of the lap. (iii) For purlin spacing/span greater than 2200mm, the runs of mesh shall be side-lapped by a minimum of two mesh spacing (300mm). Side laps shall be secured with ring fasteners fabricated from minimum 1.90mm diameter wire, or equivalent, fitted at maximum 600mm centres between purlin/span on both sides of the lap.

Tautness. Mesh shall be pulled taut to ensure only natural sag between each purlin or roof member.

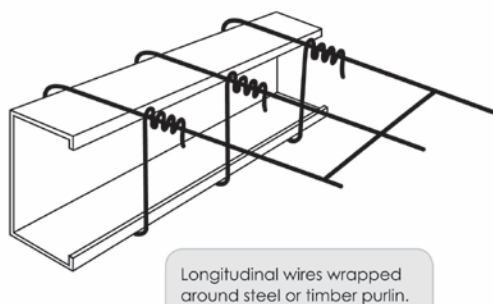
End joints



End joints in wire

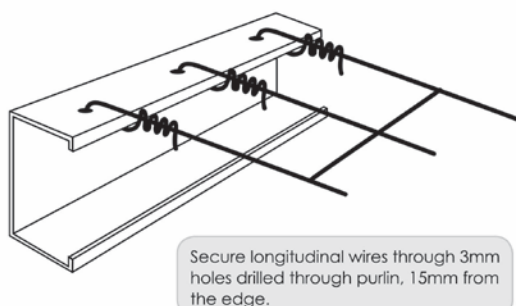


Steel and timber purlins



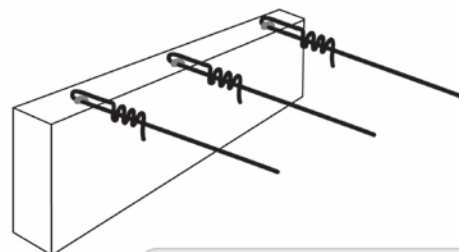
Longitudinal wires wrapped around steel or timber purlin.

Steel purlins



Secure longitudinal wires through 3mm holes drilled through purlin, 15mm from the edge.

Timber purlins

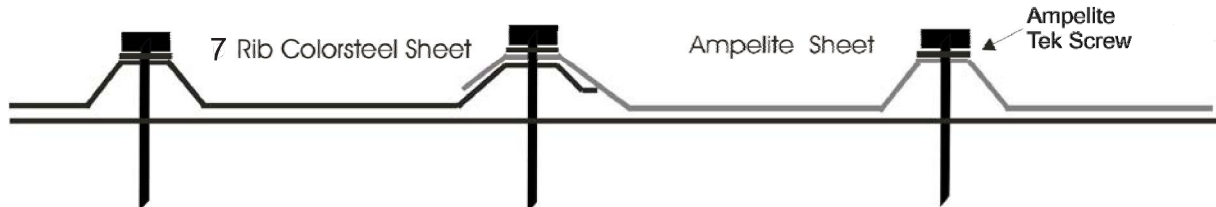


Secure longitudinal wire in position with 40mm long x 3.15mm diameter staples.



These are the 7 rib Ampelite fixing instructions

Both outside ribs of Ampelite are to be fixed **over** the 7 rib roofing profile. This will eliminate any potential water egress as the Ampelite expands and contracts with variation of temperature on the roof surface.

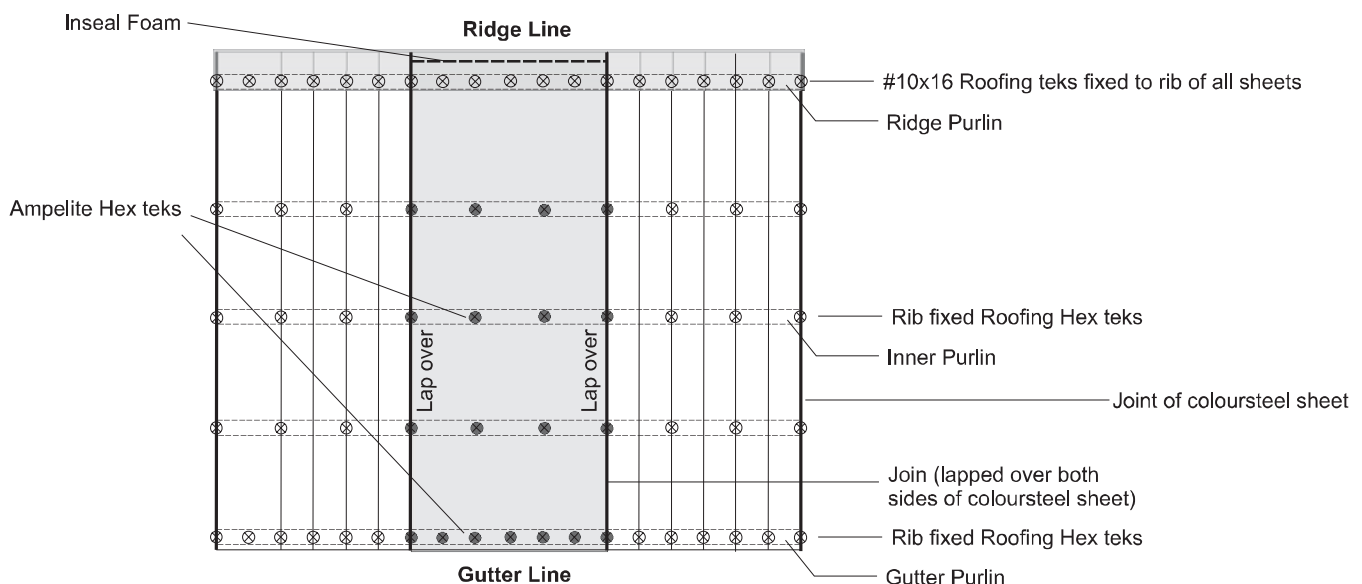


The Ampelite sheet must be fixed as per manufacturers specifications.
The Warranty requires that:

1. An appropriate seal and washer are used for fixing. These are #12x45 Ampelite Tek
- 2: The holes are pre drilled to allow for expansion and contraction of the sheet. The recommended calculation to ensure the correct hole size used is - 0.75mm per lineal metre, plus the shank size of the fastener.
This should be:
 $7.84 \text{ (sheet length)} \times 0.75 = 5.88 + 4.5\text{mm (shank size of Ampelite tek)} = 10.38\text{mm}$
10.5mm holes to be drilled for a 15m span building
3. Sheeting shall be installed in accordance with Ampelite fixing instructions and with AS/NZS 1562.3 : 1996 Design and installation of sheet roof and wall cladding, Part 3 : Plastic."

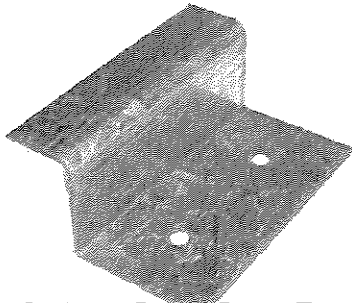
Please follow the below fixing pattern as it is very important to the stability of the roof and how it will perform under high winds and snow conditions. If there are more rows of purlins than below use the same fixing pattern.

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Series 1 Roller Door with Track Support

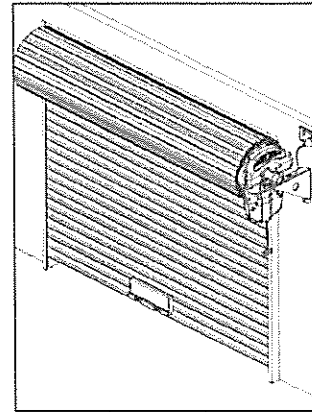
Instructions and this 'kit' to be left on site for Roller Door Installer



With each Series 1 Roller Door, Track Supports are required to be fitted. These are to be fitted to the jamb with two #12x20 teks (supplied)

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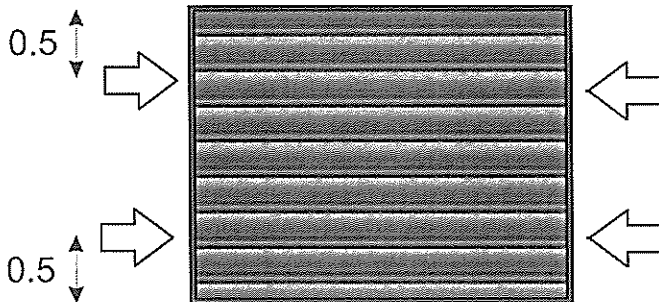
step 1



Series 1 Roller Doors that are **up to and including 2.7 metres in height** require **4 Track Supports**

Series 1 Roller Doors that are **over 2.7 metres in height** require **6 Track Supports**

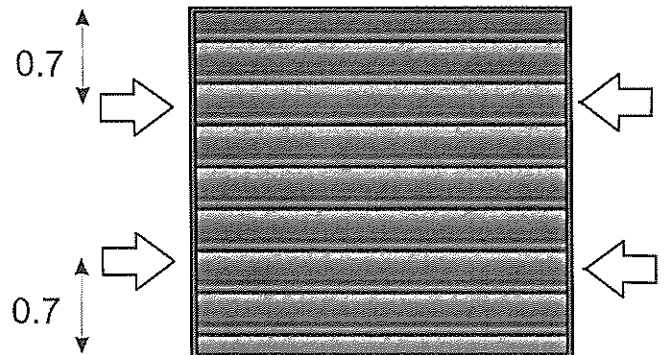
step 2



Up to and including 2.1 metres in height:

The Track Supports should be placed 0.5 metres from the top and bottom of the track

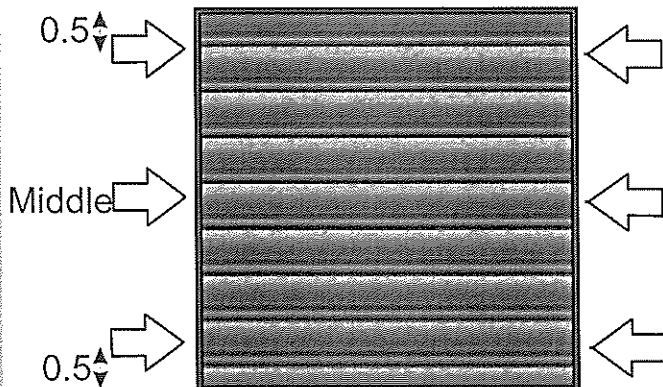
step 3



Over 2.1 metres and up to and including 2.7 metres in height:

The Track Supports should be placed 0.7 metres from the top and bottom of the track

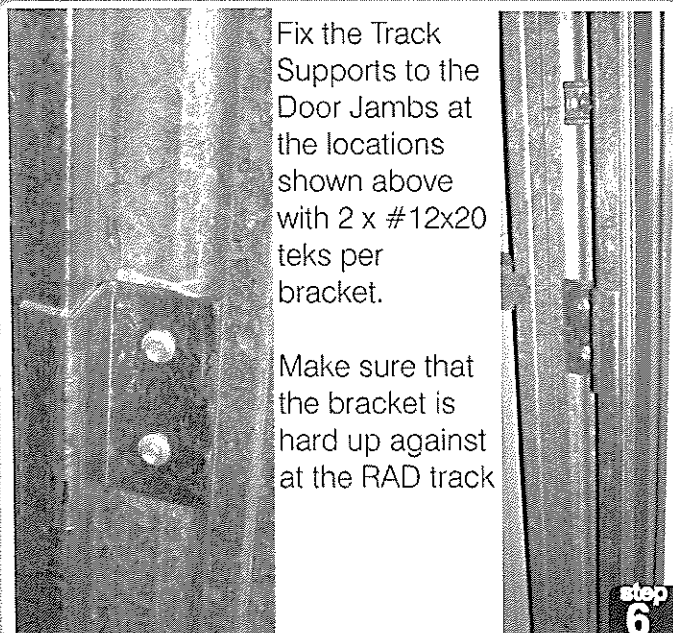
step 4



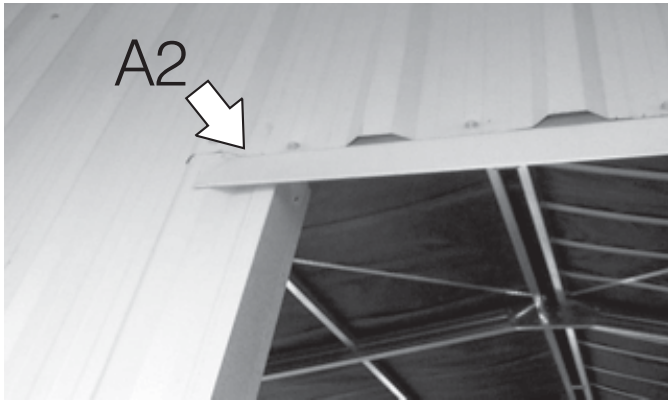
Over 2.7 metres in height:

The Track Supports should be placed 0.5 metres from the top and bottom of the track, and one in the middle of the track.

step 5



step 6



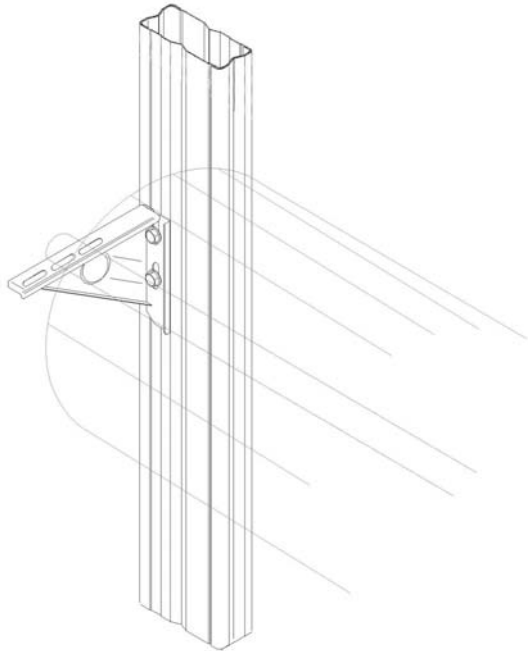
This photo shows the front entry roller door, A2 flashing are in place and cladding above door fixed in place.

step 1



Roller door track fixed to roller door jamb, with flashing returning into roller door track. Flashing fixed with rivets to door jamb & onto cladding.

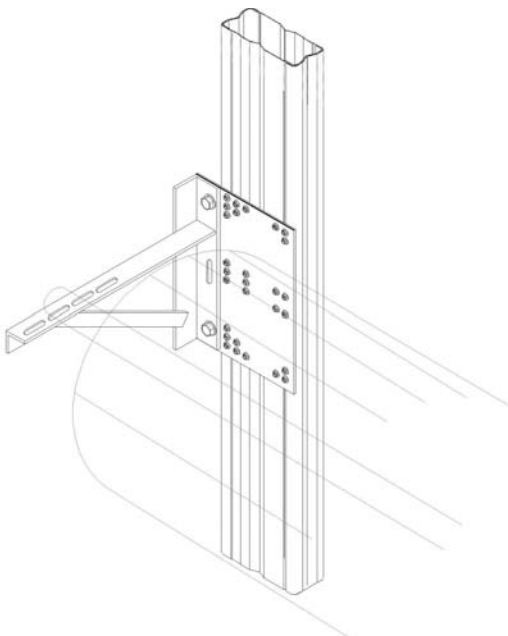
step 2



Side entry Series 1 roller door with bracket fixed to door jambs. Allowing for the recommended 150mm side room (Garadoor)

Jambs may be single C section or boxed C section depending on your specific building.

step 3



Side entry Series 2 or 3 roller door with bracket fixed to RAD Plate which is attached to the door jambs. Allowing for the recommended 210mm side room (Garadoor)

Jambs may be single C section or boxed C section depending on your specific building.

The RAD Plate is to fixed flush to the inside face of the jamb with 28x #10x16 hex tek screws.

step 4



STEEL BUILDINGS

WHO CAN? TOTALSPAN!

TOTALSPAN GUARANTEE

Subject to the exclusions described below, Totalspan guarantees all structural framing for 25 years, and all other materials and workmanship for 5 years as being free from defects.



Totalspan guarantee does not cover:

1. Subject to clause 2, buildings that are constructed within 500 metres of the coastline or other hostile environment, unless the maintenance programme that is designed for the building and its environment is followed;
2. All open buildings that are constructed within 500 metres of the coastline or other hostile environment;
3. Any manufactured item supplied by Totalspan which is covered by a manufacturer's warranty, and any defect in a building caused by a defect in a manufactured item. Manufactured items include, but are not limited to, roller doors, appliances, floor fixings, fixtures, automatic door openers and equipment;
4. Any consequential loss suffered by the customer including but not limited to payment of rent, the cost of alternative accommodation and travelling expenses;
5. Defects arising as a result of an act or omission on the part of the customer or any third parties, or failure to maintain the building as per the maintenance instructions included with the sales contract;
6. Buildings that have not been used for the purpose, or in the environment communicated to Totalspan at the time of purchase, where the use to which the building has been put, or the environment in which it has been constructed, is a use or an environment for which the building is not suitable and has caused the defect giving rise to the claim;
7. Defects arising as a result of an act of God.

Claims under guarantee:

- All claims under this guarantee must be made in writing within 30 days of the date on which the customer first became aware of the defect giving rise to the claim;
- All claims must be made within the 25 years or 5 years, as the case may be, of the date of issue of Totalspan's final invoice;
- Totalspan will not be required to satisfy any claim unless and until the customer has paid the purchase price of the building in full.

Customer name:

Site address:

Date of invoice: Building type: Size:

Business name: Trading as:

Totalspan's representative (print name):

Totalspan's representative signature:

