

ASHBURTON DISTRICT COUNCIL

5 Baring Square West, Ashburton, New Zealand
e-mail info@adc.govt.nz Website www.ashburtondc.govt.nz

(BAM 002-A)

Amended Building Consent Application

(Version No: 1.0.1 – 1 July 2007)

(Only complete items that are applicable to your project)

FOR OFFICE USE ONLY

Project No:

Date Received:

APPLICATION

I request that you issue an amendment to a Building Consent already issued for the building work described in this application.

Original Building Consent Number:

BC 08 42/07

THE BUILDING

Street Address (or Rapid No if applicable):

89 Donford St

Building Name (if applicable):

Legal Description: Lot: 607 DP: /

Valuation Roll Number:

Number of Levels:

1

Level/Unit No:

89

Total Floor Area: (all floors included)

Existing: m² Add: m²

Current lawfully established use:

Approx year building first constructed:

THE PROJECT

Description of amended work:

Change in garage to versatile garage

Estimated Value of Amended Work (inc GST): (In addition to, or reduction from, what was stated with the original application):

\$ 12,000



Addition



Reduction



No Change

Associated Resource Consents:

(Please provide project reference numbers)

LVC 07-0086

THE OWNER

Owner's Name:

Andrew Coulter / Paul Voeckel

Contact Person:

(if owner is not an individual)

Mailing/Billing Address:

90 Williams Rd Ashburton

Street Address/Registered Office:

11 11

E-mail Address:

Phone Day:

Phone A'Hours:

Fax:

Cellphone: 027281577

THE AGENT

Note - The Agent will be the first point of contact for communications with the Council/Building Consent Authority regarding this application/building work and will receive all correspondence including all invoices.

Agent's Name:

Contact Person:

(if Agent is not an individual)

Mailing/Billing Address:

Street Address/Registered Office:

E-mail Address:

Phone Day:

Phone A'Hours:

Fax:

Cellphone:

REQUIRED ATTACHMENTS

Evidence of ownership attached to this application:



Certificate of Title



Sale and Purchase Agreement

REQUIRED ATTACHMENTS (continued)

☒	Original consented plans that are to be amended
☒	Project Information Memorandum
☒	2 copies of amended plans, including all construction details, with amendments highlighted or clouded
☐	Application Amendment Fee Application fee \$ (if applicable)

KEY PERSONNEL

Name of Builder: <i>Paul Vuerich</i>		Registration Number:
Mailing Address:		
E-mail Address:	Phone Day:	<i>0272081577</i>
Name of Craftsman Plumber: <i>Kan body</i>		Registration Number:
Mailing Address:		
E-mail Address:	Phone Day:	<i>0274797379</i>
Name of Registered Drainlayer:		Registration Number:
Mailing Address: <i>Warwick Hffne1</i>		
E-mail Address:	Phone Day:	
Name of Craftsman Gasfitter:		Registration Number:
Mailing Address:		
E-mail Address:	Phone Day:	
Name of Designer:		Registration Number:
Mailing Address: <i>Versatile</i>		
E-mail Address:	Phone Day:	
Name of Engineer:		Registration Number:
Mailing Address:		
E-mail Address:	Phone Day:	

OTHER

Has the engineer provided a Producer Statement – Design?	☒ Yes	☐ No
Has the engineer been engaged to carry out site inspections on the job?	☐ Yes	☒ No
<i>(If yes, these must be specified on the Producer Statement)</i>		

NOTES BY APPLICANT (Other notes or comments which you as the applicant may wish to add)

<i>Change of lavage type</i>

SIGNATURE

Signed by or for and on behalf of the Owner: <i>A.F.H.</i>	
☒ Owner	☐ Agent Date: <i>02/10/07</i>
Note: If acting "for and on behalf", please read the following declaration before signing: "I hereby declare that I am authorised to act as Agent of the Owner".	
☐ We require our plans and/or specifications to remain confidential	
Date Paid	Receipt Number Invoice Number
Date Paid	Receipt Number Invoice Number

NOTES

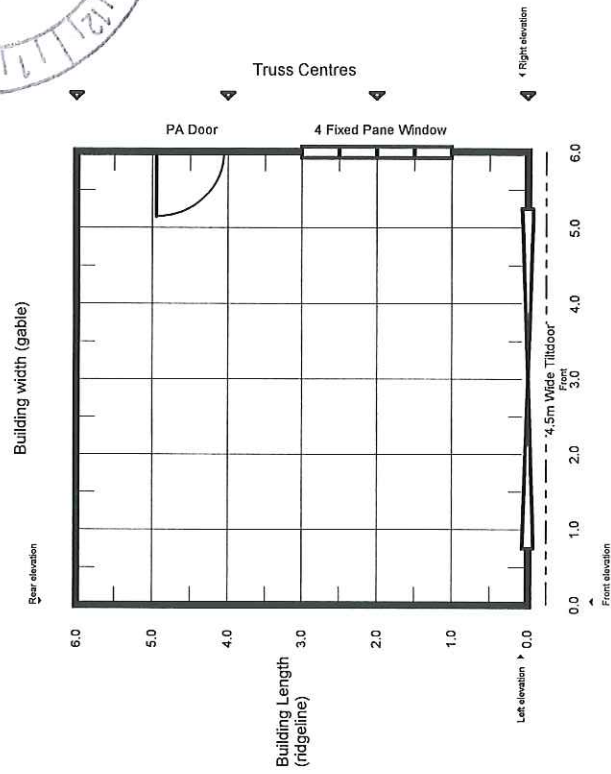
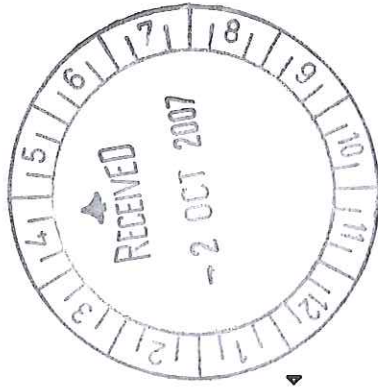
1. This does not apply to building consents that already have a Code Compliance Certificate issued.
2. This application is for minor amendments to issued building consents. It is not intended to be used where the scope of work is extended.
3. Processing fees (plus any additional Building or Building Research Levies) are to be paid before any work covered by the amendment may proceed.

Versatile Buildings 1000 Series Floor Plan
Customer: Mr. Paul Vucetich Mr. Andrew Coulter
Site Address: Rakaia, ,
Reference: cbi-807
Contact: Graeme, Ashburton, (03) 308 3569

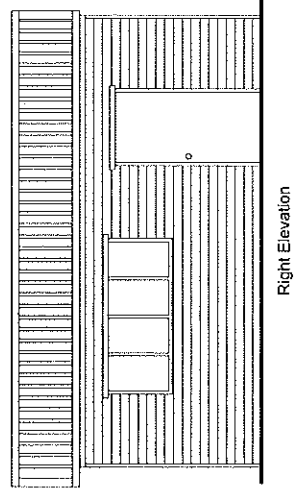
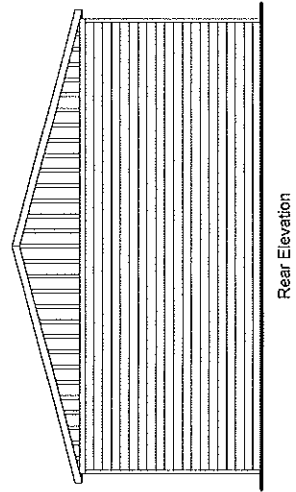
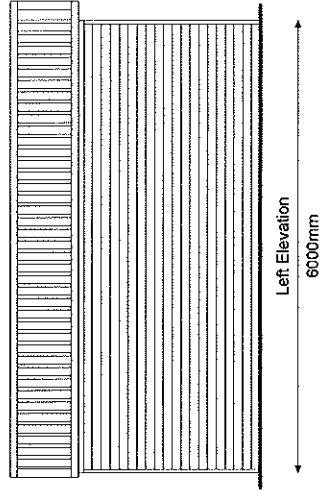
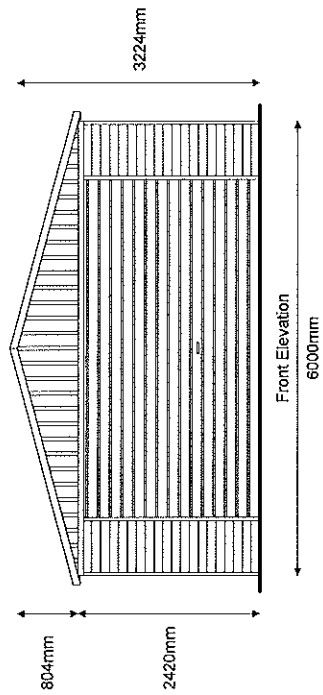
AMENDED PLAN
APPROVED

Signed RAA

Date 2-10-07



Versatile Buildings 1000 Series Elevations
Customer: Mr. Paul Vucetich Mr. Andrew Coulter
Site Address: Rakaia, ,
Reference: cbl-807
Contact: Graeme, Ashburton, (03) 308 3569



Versatile Buildings 1000 Series Specifications
Customer: Mr. Paul Vucefich Mr. Andrew Coulter
Site Address: Rakaia, ,
Reference: cbi-807
Contact: Graeme, Ashburton, (03) 308 3569

Model: Versatile 1000 Series
Size & Stud Height: 6.0m long x 6.0m wide, with 2.4m stud height
Floor Type: Concrete floor
Roof Details: 15 degree pitch. Thickness: 0.35mm
Trusses: 90mm x 35mm kiln dried, stress graded timber as per floor plan
Wall Framing: H1.2 treated 90mm x 35mm kiln dried, stress graded timber
Wind Zone: high wind zone
Cladding Type: Versacled 'weatherboard' profile
Gable Cladding: Board & Batten profile
Gable Soffit: Front Only
Downpipes Location: Front of building

Notes:

GENERAL: Construction to comply with Mitek Producer Statement, VB 2000 and in all other respects NZS 3604:1999 and the NZ Building Code.

FOUNDATIONS: Concrete floor shall be 17.5Mpa, 100mm thick. Footing as detailed

WALL FRAMING: All timber shall be machine stress graded, gauged and treated to TPA Specification H1.2 or C.F. MGP 10 framing. Studs shall be 90 x 35mm at 1000mm c/s and housed into 90 x 35mm plates. Lay Supercoarse DPC under all plates. Refer Producer Statement VB 2000, Sheet4 for timber grade options and specification. Fix hardware in accordance with Producer Statement VB 2000, Sheets 4 and 5.

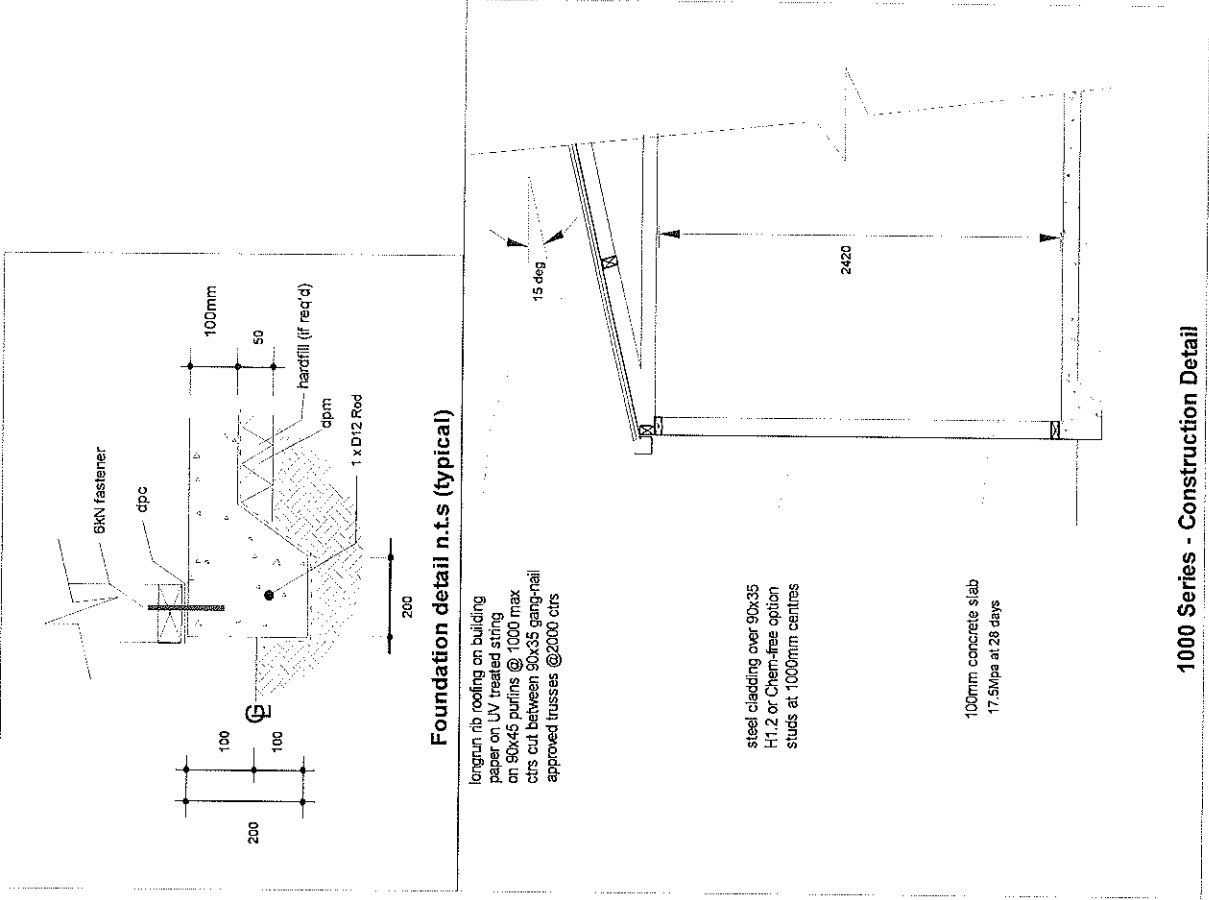
ROOF FRAMING: Purlins shall be 90 x 45mm on edge at 1000mm c/s fixed to Gangnail 15 degree roof trusses at 2000mm c/s. Fix purlins and ridge braces as detailed in Producer Statement VB 2000, Sheet 13. See Gangnail truss details and specification on Sheets 14 and 15.

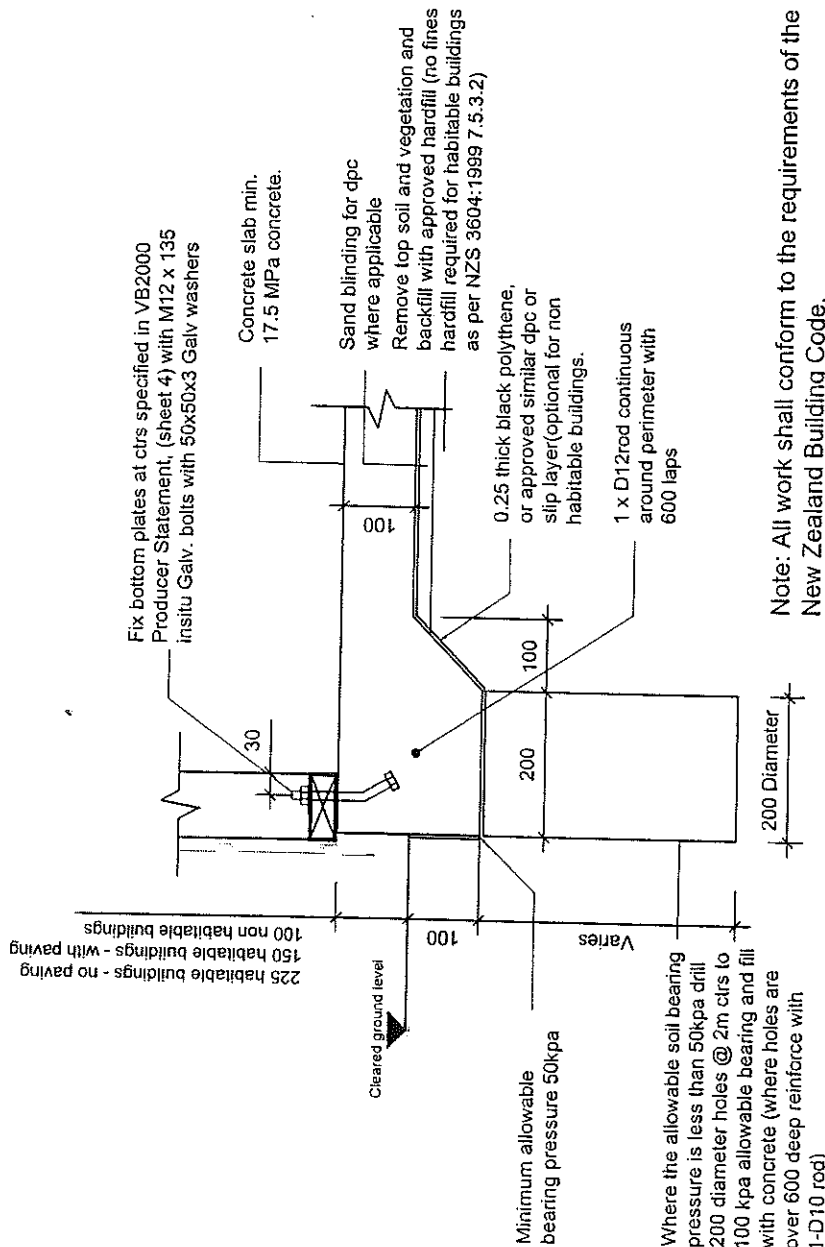
SIDE ENTRY OPENING LINTELS: LVL beam sizes and spans are specified in VB 2000, sheet 4. Fixing details are shown on Sheet 9 of VB 2000.

ROOFING: Shall be Versatile 6 rib longrun metal roofing fixed with 75mm spiral shank weatherseal roof nails, over bituminous type building paper supported by ultra-violet fast lashing.

WALL CLADDING: Fix with galvanized clouts as specified in VB 2000 sheet 6.

ROOF BRACING: For all buildings fix Lumberlok roof plane strap bracing in accordance with VB 2000 Producer Statement





Note: All work shall conform to the requirements of the New Zealand Building Code.
Refer also to Versatile Buildings Standard drawing relevant to the Building to be erected.

I certify that buildings erected in accordance with this drawing will comply with the New Zealand Building Code

F R Smith
BE(civil) CPEng MIPENZ MACENZ MIEAust.

FREDERICK R SMITH
Consulting Structural Engineer
Ph 03 348 1521 Fx 03 348 1571
PO Box 11-350 Christchurch

VERSATILE

PROJECT TITLE

Foundation Details

DRAWING TITLE

Foundation & Footing Detail

Note: Construction to comply with NZS 3604 (1999) and the New Zealand Building Code 1992

SCALE: 1:10
REVISION: Ver 1.0
DATE: Nov 04
FILE:
SHEET: 1
OF: 1
found - VB

Allowable Ground Bearing Pressure Guide

The soil below the underside of the foundation may be assumed to have an allowance bearing pressure of not less than 100 kPa when no organic topsoil, soft peat, soft clay that contains stones, or fill material that has not been placed in accordance with NZS 4431 is found or if adjacent similar type buildings supported on footings similar to those to be constructed show no signs of settlement or cracking

Concrete Slab Reinforcement

Concrete slabs may be unreinforced provided the maximum size of a slab between construction and/or shrinkage joints does not exceed 3 x 3.9m.

Polypropylene fibre reinforced concrete slabs shall have a minimum dosage rate of 0.7kg/m³, and maximum slab size shall be 4 x 6m.

Slabs reinforced with 665 mesh set 30 below the surface of the concrete and placed at 75 from edges of slabs with 200 side laps may be poured in slabs up to 6 x 12m without construction or shrinkage joints.

VB2000

CONTENTS

SECTION 1	SPECIFICATION DETAILS
SECTION 2	FOUNDATION DETAILS
SECTION 3	WALL FRAMING DETAILS
SECTION 4	ROOF FRAMING DETAILS
SECTION 5	HARDWARE FIXING DETAILS
SECTION 6	WALL & ROOF BRACING DETAILS

CLIENT

Mr. Paul Vucetich Mr. Andrew Coulter

Rakaia

□



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VB2000

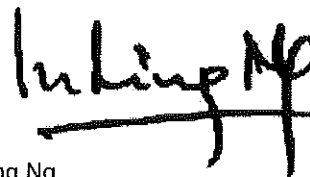
PRODUCERS STATEMENT DESIGN

The building design VB2000 has been compiled using sound and widely accepted engineering principles and in accordance with NZS4203:1992 and NZS 3603:1993 as verification methods and acceptable solutions of the approved documents issued by the Building Industry Authority to satisfy the requirements of clause B1: Structure of the Building Regulations 1992.

As independent design professionals covered by a current policy of Professional Indemnity Insurance to a minimum value of \$2,000,000. I BELIEVE ON REASONABLE GROUNDS that subject to:

1. The verification of all design assumptions detailed in the drawings and: -
2. All proprietary products meeting the performance specification requirements.

The proposed building is to be constructed in accordance with the drawings, specifications and other attached documents, which comply with all relevant provisions of the Building Code



In Ling Ng
B.E. (Hons) MIPENZ (Structural)
CPEng, IntPE
Member ID 146585
for MiTek New Zealand Ltd.
20 Kotzikas Place
Christchurch
New Zealand

1st November 2006



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To satisfy the requirements of Clause B2: 'Durability' of the New Zealand Building Code, the metal cladding material needs to meet a 50-year durability life. To achieve that, the following provisions must apply:

Range of Product and Use.

Specification:	AS1397:2001
Coating type:	Zinc/Aluminium & painted
Steel thickness range:	0.35mm - 0.95mm BMT
Steel grade range:	G300 - G550
Application:	Standard Versatile Walls on Class IV Building category as per NZS4203:1992
Fasteners:	Heavy Zinc or Zinc-tin coated clouts to comply with AS3566.2-2002 Classes 3 & 4. Aluminium rivets for all steel components. IFI114:1986

Requirements, Limitations and Exclusions.

- Applicable to buildings in Sea-Spray zone and exposure zones 1,2,3 & 4 in accordance with Clause 4, Durability, NZS 3604:1999 which is an acceptable solution under clause B2 of the NZBC
- Fixing and installation of the cladding must be done exactly in accordance with Versatile Buildings 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.

Exposure zones 1,2,3 & 4. (All areas other than sea spray zones - see below)

- Rain washing only required on exposed sections, sheltered or protected areas such as under spouting, top cladding boards and tops of doors require washing every 3 months.

Sea spray zones (Within 500m from the sea or 100m from sheltered harbours or inlets) and areas of Geothermal activity.

- Rain washing only required on exposed areas. Sheltered and protected areas such as under spouting, top cladding boards and tops of doors require washing down every month and when corrosive salts are present.

MANUFACTURERS STATEMENT DURABILITY

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 manufacturer's recommendations are to be followed for surface preparation and paint type to be used.

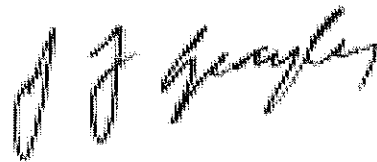
• Evident Corrosion

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.

References.

1. NZS 3604:1999, clause 4, Durability.
2. Versatile Buildings Assembly Instructions.
3. New Zealand Building Code 1992



Jeffrey Geayley
for Versatile Buildings Ltd
112 Waterloo Road, Christchurch
New Zealand
Dated: 1st November 2006



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EXPLANATION

The following designs cover the structural aspects (excluding floor details) of the construction of Versatile Buildings Ltd standard range of garages for both the 600 and 1000 Series. The sequence of design information is broken down into the following categories:

- Wall Framing.
- Truss Design.
- All Structural Fixings.
- Building Stability Design for both roof and walls.

All other aspects of the Structure are constructed in accordance with the standard Versatile Buildings Ltd details for garages.

Copyright: These drawings must not be used without express prior permission from MiTek NZ Ltd. and Versatile Buildings Ltd.

BRANZ Note: Copies of Bracing Test Report for wall cladding, Test number STR346, available for inspection from Versatile Buildings Ltd., 112 Waterloo Road, Christchurch.

Building Classification: Buildings designed for Class 5 Category as defined in NZS4203:1992 Table 2.3.1

Patent: 'FlexiBrace' subject to Patent No: 504428 MiTek N.Z. Ltd.

Steel 'Stud Saver' subject to registered Patent No's 330803 & 314494



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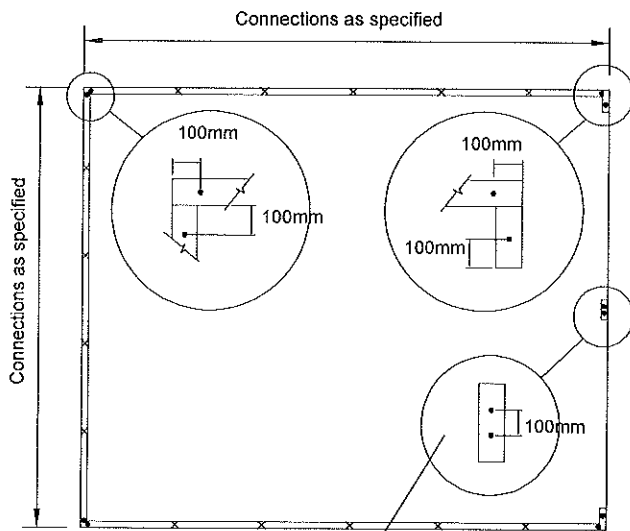


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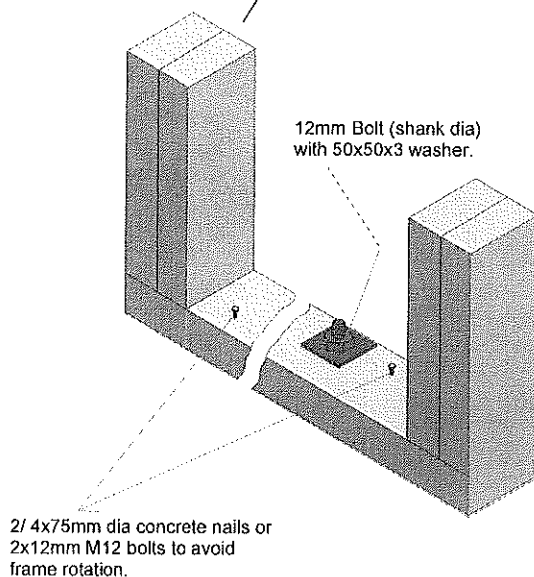
VB2000

FOUNDATION DETAILS

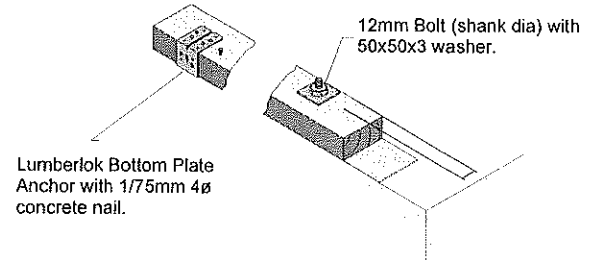
2.4m WALL HEIGHT BOTTOM PLATE FIXING LOCATIONS



NOTE: Connections must be applied to all corners and door openings shown and then spaced, as per layout above, between these points



BOTTOM PLATE CONNECTION TYPE



NOTE: For fastener spacing @ 900 ctrs, truss spans building width can be increased by 25%

Wind Load	Max Building	Fixing Spacing
high	9600 12000	1200 900

VB2000

DESIGN INFORMATION

Design Scope

The VB2000 design series covers the structural requirements for the Purlin fixing, Truss fixing, Truss design, Truss bracing, Wall & Roof Bracing, Lintels, Verandah / decks & Garaports. All other structural requirements are as per NZS3604: 1999

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.

Design References

NZS3603:2005
NZS3604:1999
NZS4203:1992
NZS3602:2003
TP1.85

Truss Joints

GANG-NAIL plates are to be pressed into both sides at each joint by a licensed GANG-NAIL fabricator

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.

Design Loads

Dead loads for Light Roof
0.15kPa (includes weight of trusses, purlins, associated framing and zincalume roof).

Live loads
1.0kN concentrated load, 0.25kPa uniform load on roof section & 2.0kPa uniform load for decks.

Wind loads
Buildings designed for UP TO VERY HIGH wind conditions as per the attached selection charts and as defined by NZS3604:1999.

Seismic loads
Siesmic Zones A, B or C.

Snow loads
Buildings designed for up to 1.00kPa Snow load as shown on the attached selection chart.

Refer to MiTek New Zealand Limited for any design modifications required for increase in snow loads or wind loads above those stated on the drawings.
Buildings designed for class IV category as NZS4203:1992 Table 2.3.1



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WALL FRAME DETAIL

Wall Frame Sizes

Wind Load	Wall Height (mm)	Stud Ctrs (mm)	Size & Grade
high	2400	1000	90X35 MGP10

Timber Grade & Design

- Top plates, bottom plates & studs are to be constructed in 90 x 35 minimum grade to be MGP10 or MSG10 or better in all situations as described in the table shown above.
- All other timber not specified can be non standard grade.
- All purlins and stiffening added to the lintels to be minimum 90x45 MSG8 grade.

Timber Treatment

- Treated Timber is to be used in the construction of the buildings as defined by the frame and truss requirements in NZS3602:2003. All treated timber is to meet the required standards.
- Minimum H1.2 timber treatment is to be used in all frames & including areas of the building where it is to be enclosed with GIB board lining, i.e. sleepouts etc.
- Treatment of Verandah & Deck construction refer to Verandah and Deck details in this document (if included)
- Trusses including Gable Ends can be untreated.



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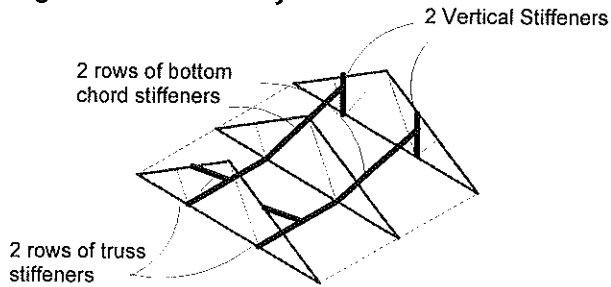
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SPAN, LOAD AND TRUSS DETAILS

Truss Stiffener Position

Diagram indicative only



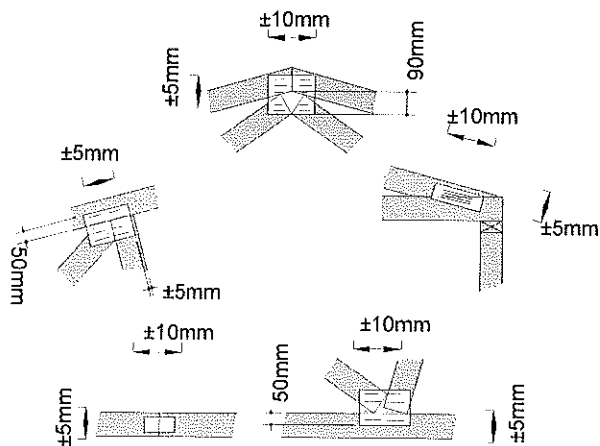
Load Chart

Live Load =	0.25 kPa (Distr) 1.0 kN (Conc)
Dead Load =	0.15 kPa (Top Chord) 0.20 kPa (Bottom Chord) on 900 & 1200 crs with ceiling
Wind Load Cpi =	0.50 max
Cpe =	0.80 max
Purlin Spacing =	1000 max

Span Chart

Truss Centers	Wind Load	Snow Load (kPa)
2000	high	0.6.5

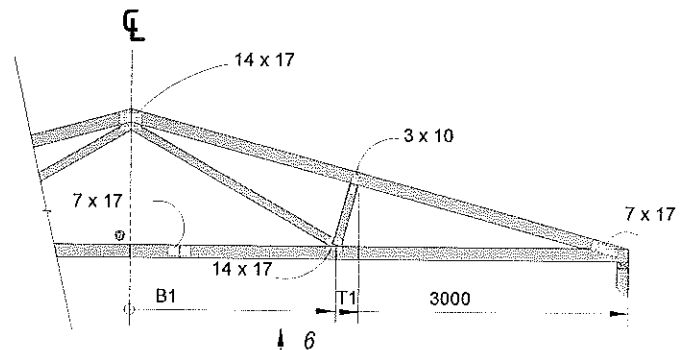
Construction Tolerances



NOTE:

Plates are to be fully pressed home on both sides of joints.
The plate axis must be located in the specified or indicated direction.
Typical positioning tolerances for plates

6,000 Span



NOTE:

1. Truss Top Chord pitch range is 15°, 20°, 25°, 30°
2. ● Indicates location of Bottom chord brace (truss stiffener)
3. ↑ 6 Indicates the truss camber (typical)
4. All truss plates are Gang-Nail® GN10 type
5. All top & bottom chords are to be MGP10 90x35 Radiata pine
6. All webs are to be a min. MSG8 - 70x35 Radiata pine



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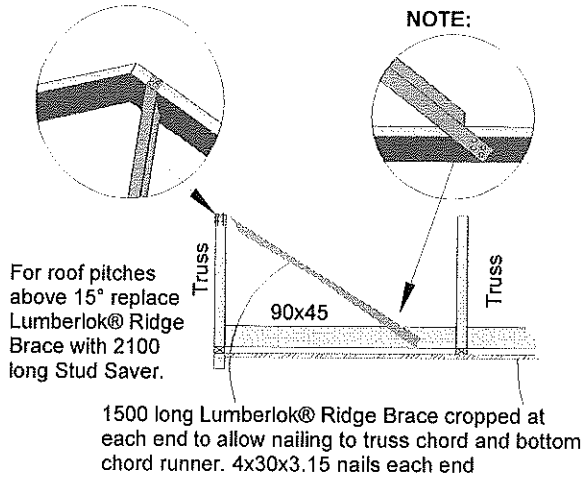


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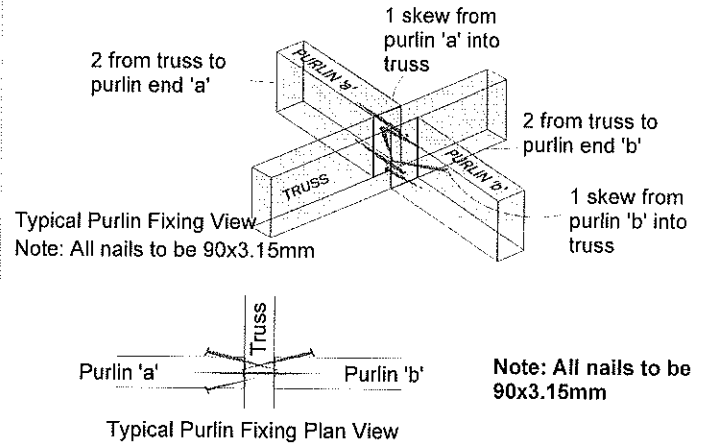
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TRUSS DETAILS

Ridge Brace



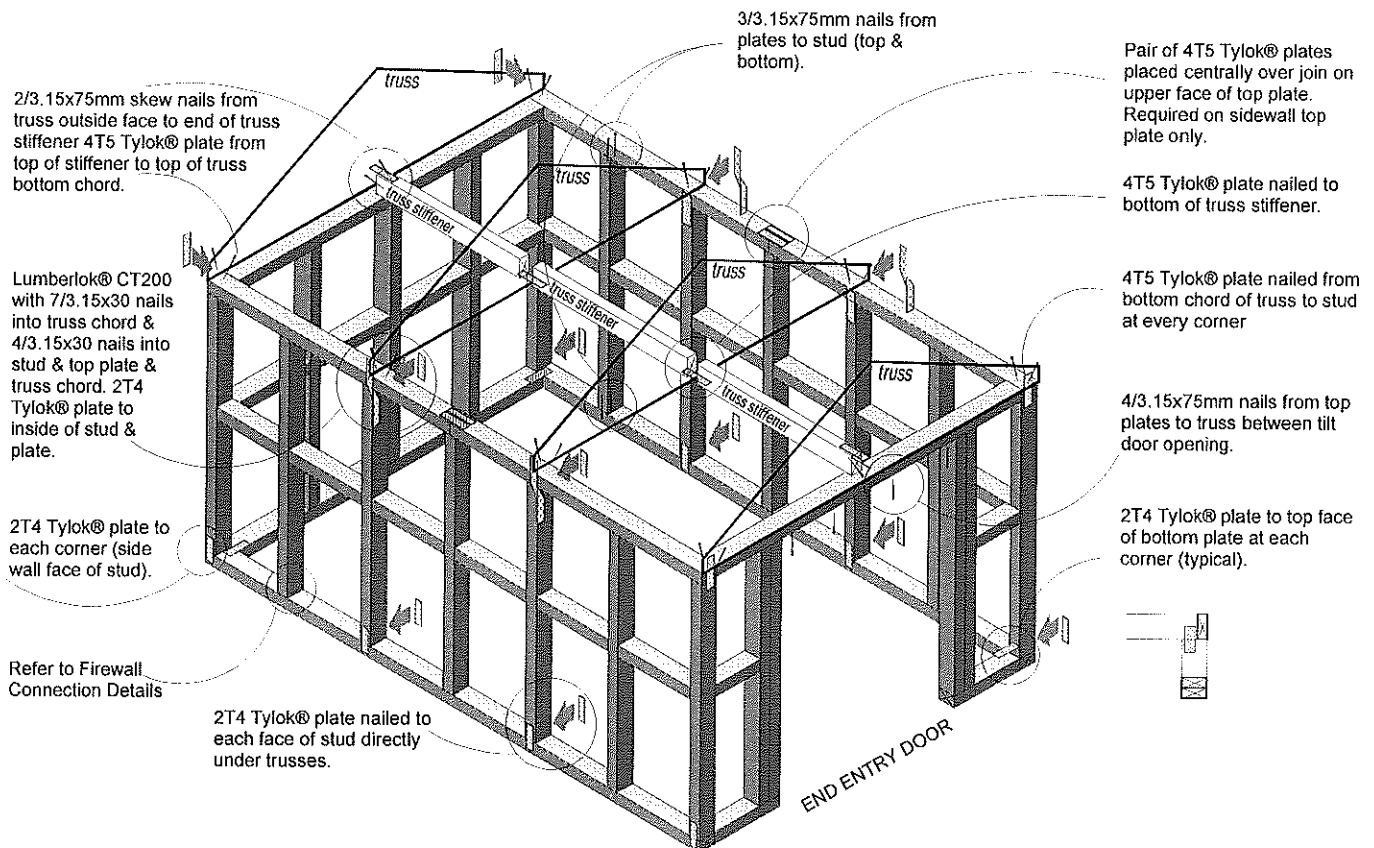
Purlin Fixing Detail



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HARDWARE FIXING DETAILS

Hardware Fixing Locations



NOTE: Hardware fixings apply to both 600 & 1000 series buildings.



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EXPLANATION

The Building Stability Design of the standard range of garages is broken down into two separate areas, and are as follows: -

Roof Bracing

Using a diaphragm approach, the roof is braced using a series of Strip Brace and / or Multibrace patterns in the plane of the truss top chords to transfer the wall and roof wind demand to the top plates. The loads at the top plate level are then transferred to the foundation through the wall bracing system.

The layouts of Strip Brace and Multibrace patterns are determined by the size and shape of the building plus the relevant wind zones appropriate for that design. These layouts are determined on the VB2000 Series drawings on the following pages.

Wall Bracing

Using a Bracing Units approach the tables shown on the following pages give the loading demand of the respective buildings dimensions and wind loads. The use of wall cladding and / or Secondary Bracing systems provides the method of achieving the required bracing demand. These cladding and secondary bracing units are detailed on the following pages also.

Within allowable side wall and end wall length ratio there is an ability to brace buildings on all three sides only when large door openings make installation of braces impossible. The bracing demand in these situations is laid out in the tables on the following pages.

The VB2000 Series covers stand alone buildings up to but no greater than a width and or length of 12m. In cases where portion walls are available, buildings can be over the 12m overall dimension provided the rules on the following page are followed and installed as per the diagram shown on the following page.

All Angle Brace, Strip Brace, Multibrace & Flexi-Brace options can be located anywhere along the braced wall provided they fit the required dimensions.



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BRACING DEMAND RULES

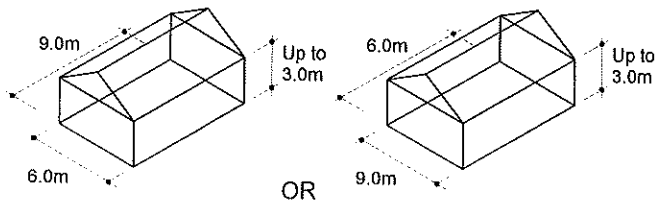
1. BUILDING DIMENSIONS

The maximum building dimensions must not exceed 12m in width and or length.

2. SIDE/END WALL RATIOS DEFINITION

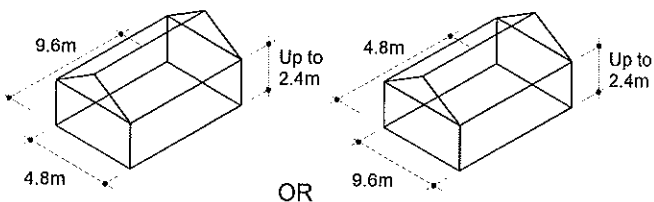
a. 1 to 1.5 Ratio applies only when 3 walls of bracing are available (See rule 4a) on L,M,H & V/High Wind Loads up to 3.0m high.

e.g.



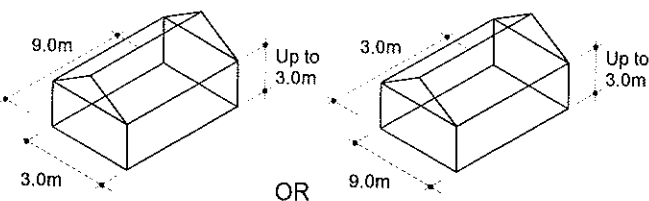
b. 1 to 2 Ratio applies only when 3 walls of bracing is available (See rule 3a) on L, M,H & V/High Wind Loads up to 2.4m high.

e.g.



c. 1 to 3 Ratio applies only when 4 walls of bracing is available (See rule 3b) on L, M,H & V/High Wind Loads up to 3.0m high.

e.g.



3. WALL BRACING DEMAND OPTIONS

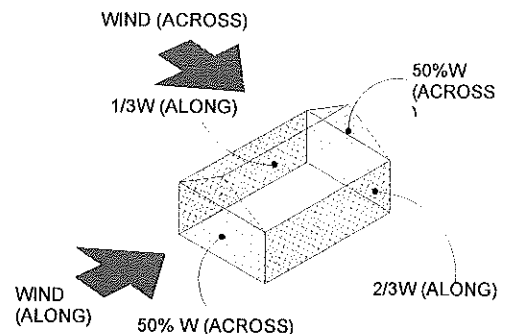
4a. Where 3 walls only are available, establish the demand for ALONG & ACROSS for the specific tables on the following pages. Apply the full bracing unit required to the respective walls and brace accordingly.

4b. Where four walls can be used for bracing, establish the demand on the following pages) by using the tables called "Both end walls available" and "Both side walls available."

NOTE

The shortest two walls must have bracing equally distributed between them.

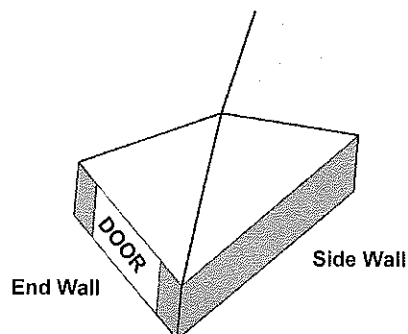
If that is achieved the Total Bracing Units in the longer walls maybe distributed on a 2/3 to 1/3 split, e.g. A total of 150 Bu's can be distributed in one of the longer walls and the remaining BU's distributed to the other longer wall. (See below)



VB2000

ROOF BRACING

BRACING 6.0m Width, 6.0m Length, high Wind Zone



ROOF BRACING NOTES

Indicates a single row of Lumberlok Strip Brace tensioned up and laid over the top of the purlins, fix each end with 3 x 30 x 3.15 nails (typical) Fix at crossings with 2/30x3.15 nails.

VB2000

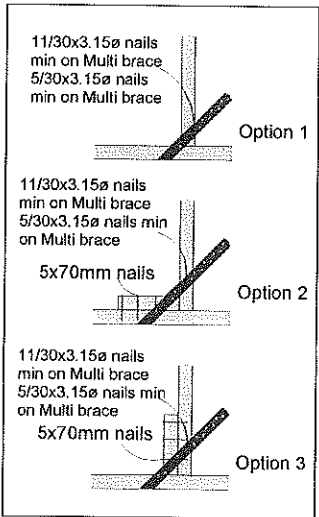
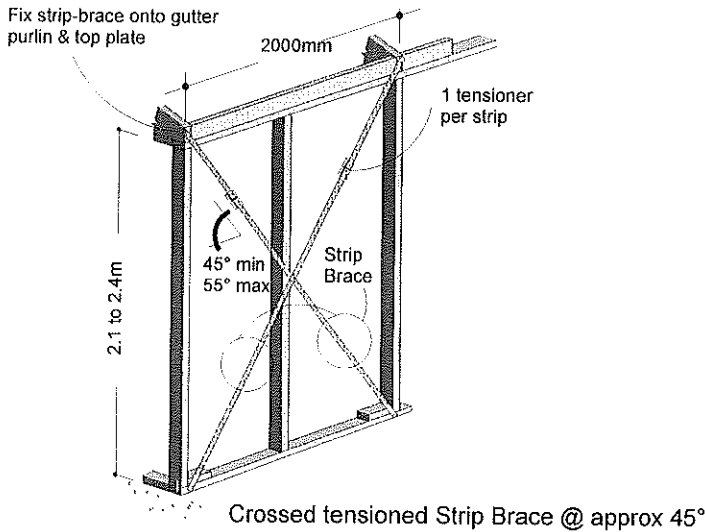
WALL BRACING

BRACING ELEMENT

VT1

Wind Total BU's

70

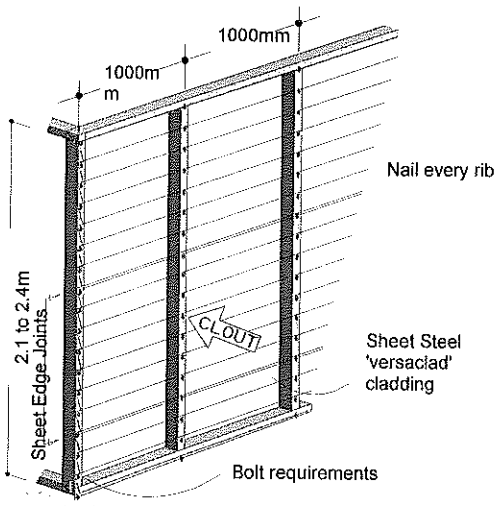


BRACING ELEMENT

VV1

Wind Bracing units per 1.0m wall:

50



MiTek New Zealand Ltd.

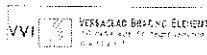
HOME OF GANG-NAIL® BUILDING SYSTEMS



VERSATILE®
BUILDINGS

LEGEND

refer to: Producer Statement, VB2000,
for bracing element & fixing details.



1000 SERIES BRACING V2.0

All secondary bracing ratings must only be used in conjunction with Supercad or Versaclad on external walls. On internal walls lined one side with plaster board, customwood or similar the values can be used on their own to achieve required bracing units

Client : Vucetich
Order No:
Size : 6000 x 6000mm
Windzone: High
Roof Pitch: 15 Deg

STEP 1: BRACING DEMAND FOR WIND DIRECTION.
ALONG = (RIDGE LINE)

WALL WIDTH	LOW	MED	HIGH	V.HIGH
3000	35	46	66	
4000	47	62	88	
5000	59	77	110	
6000	70	92	132	
7000	82	107	154	
8000	94	122	176	
9000	105	138	198	

WRITE IN BOX A: 132
WRITE FIGURE HERE & WRITE FIGURE HERE: 132
CIRCLE SELECTED

STEP 4: BRACING DEMAND FOR WIND DIRECTION.
ACROSS = (GABLE END)

WALL WIDTH	LOW	MED	HIGH	V.HIGH
3000	49	65	95	
4000	65	86	126	
5000	81	108	158	
6000	97	130	189	
7000	113	151	221	
8000	130	173	252	
9000	146	194	284	
10000	162	216	315	
11000	178	238	347	
12000	194	259	378	

WRITE IN BOX C: 189
WRITE FIGURE HERE: 0
CIRCLE SELECTED

STEP 2a: CLADDING: PRIMARY BRACING

CLAD CODE	RATING	QUANTITY	TOTAL
VV1	50	6	300

CLADDING ACHIEVED: 300

BOX: A TOTAL BU'S REQ'D: 132

STEP 2b: HARDWARE: SECONDARY BRACING

BRACING CODE	RATING	QUANTITY	TOTAL
VA1	70	0	0
VT1	70	0	0
VF1	125	0	0
VF2	150	0	0
VF3	50	0	0
VF4	70	0	0

HARDWARE ACHIEVED: 0

TOTAL BU'S ACHIEVED: 300

STEP 2c: CLADDING: PRIMARY BRACING

CLAD CODE	RATING	QUANTITY	TOTAL
VV1	50	3	150

CLADDING ACHIEVED: 150

BOX: B TOTAL BU'S REQ'D: 132

STEP 2d: HARDWARE: SECONDARY BRACING

BRACING CODE	RATING	QUANTITY	TOTAL
VA1	70	0	0
VT1	70	0	0
VF1	125	0	0
VF2	150	0	0
VF3	50	0	0
VF4	70	0	0

HARDWARE ACHIEVED: 0

TOTAL BU'S ACHIEVED: 150

STEP 3a: CLADDING: PRIMARY BRACING

CLAD CODE	RATING	QUANTITY	TOTAL
VV1	50	6	300

CLADDING ACHIEVED: 300

BOX: C TOTAL BU'S REQ'D: 189

STEP 3b: HARDWARE: SECONDARY BRACING

BRACING CODE	RATING	QUANTITY	TOTAL
VA1	70	0	0
VT1	70	0	0
VF1	125	0	0
VF2	150	0	0
VF3	50	0	0
VF4	70	0	0

HARDWARE ACHIEVED: 0

TOTAL BU'S ACHIEVED: 300

STEP 3c: CLADDING: PRIMARY BRACING

CLAD CODE	RATING	QUANTITY	TOTAL
VV1	50	0	0

CLADDING ACHIEVED: 0

BOX: D TOTAL BU'S REQ'D: 0

STEP 3d: HARDWARE: SECONDARY BRACING

BRACING CODE	RATING	QUANTITY	TOTAL
VA1	70	0	0
VT1	70	0	0
VF1	125	0	0
VF2	150	0	0
VF3	50	0	0
VF4	70	0	0

HARDWARE ACHIEVED: 0

TOTAL BU'S ACHIEVED: 0