# S









# FAR NORTH DISTRICT COUNCIL T.D. Reg: 15/5

Building Code Clause(s).

| The state of the s |             |                |
|--|-------------|----------------|
| PRODUCER   | STATEMENT - | - PS1 - DESIGN |

| (Guidance notes on the use of this form are printed on page 2)   |
|--|
| ISSUED BY: T. Drup Steen Consulting Engineer (Design Firm)   |
| TO: Mr Michael O'Halloran:   |
| TO BE SUPPLIED TO: Far North District Council (Building Consent Authority)   |
| IN RESPECT OF: Pro posed (and partly constructed) residential Garage (Description of Building Work) study, top plates lateral  |
| IN RESPECT OF: Pro Aosed (and Aartly Constructed) residential Garage (Description of Building Work) study top plates lateral at: No 3 State Highway 12, Openoni Loads, footings (Address) LOT DP 171461 (Listells by others)   |
|  |
| We have been engaged by the owner/developer referred to above to provide   |
| Clause(s)  |
| The design carried out by us has been prepared in accordance with:   |
| Compliance Documents issued by the Ministry of Business, Innovation & Employment. NZS 1170, NZS 3603 (verification method / acceptable solution)   |
| The proposed building work covered by this producer statement is described on the drawings titled O'Halloran   |
| The proposed building work covered by this producer statement is described on the drawings titled  |
| 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:  (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:    Council Inspections   Council Inspections |
| I, This Drugsteen am: UCPEng 61652 #  (Name of Design Professional)  |
| □Reg Arch#   |
| PE CPT THPF MN/1E  |
| I am a Member of : IPENZ INZIA and hold the following qualifications: BE, CPEng, Int. PE, MNZLE The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000*.   |
|  |
| SIGNED BY This Drupsteen ON BEHALF OF T. Drupsteen Consulting Engineer   |
| SIGNED BY This Drupsteen ON BEHALF OF TDrupsteen Consulting Engineer (Design Firm)  Date 07 05 2015 (signature) This Statement accrues to the  |
| 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 and damages payable arising from this statement and all other statements provided to the Building Design Firm only. The total maximum and the building payable arising from this statement and all other statements provided to the Building Design Firm only. The total maximum and the building payable arising from this statement and all other statements provided to the Building Design Firm only. The total maximum and the building payable arising from this statement and all other statements provided to the Building Design Firm only. The total maximum and the building payable arising from this statement and all other statements provided to the Building Design Firm only.  |

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

Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of

THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, IPENZ AND NZIA

T. DRUPSTEEN Consulting Engineer B.E. CPEng, IntPE, M.I.P.E.N.Z. 3264 SH 12, RD 3 Kaikohe 0473 Ph 64 9 401 4737 Fax 64 9 401 4738 Email: drupsteenthijs65@gmail.com

\$200,000\*.

T. DRUPSTEEN Consulting Engineer B.E. CPEng, IntPE, M.I.P.E.N.Z. 3264 SH 12, RD 3 Kaikohe 0473 Ph 6494014737 Fax 6494014738 Email: drupsteenthijs65@gmail.com

## FAR NORTH DISTRICT COUNCIL Approved Documents

T. Gengratien

O' Halloran Garage Struct Cales.

Busic Input Dafa.

Windage

Roofawall; Earthquake

Assumed Ground Ultimate strength

Soil design skin frection with crete

Roof G

Wind uplift

The form of the fo

Trustes Designed By NZS 3604 Very High

Vu= 50 m/sec gu= 1.5 kpa. light timber concrete much less than wind.

zookpa Klimate "

clay > 11

(no ceiling or insulation)

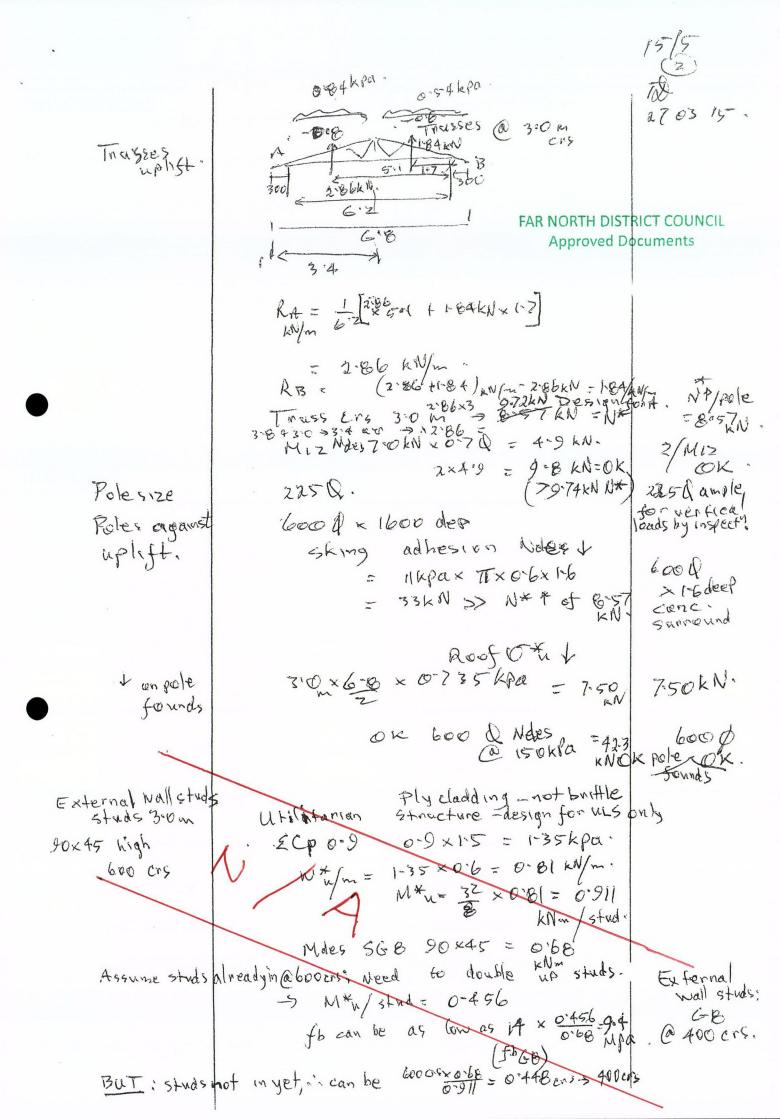
Q 0.24 kpa.

1.26+1.50 =0.735

Lc=1.1 kpa.

Avot Av Cpe = -0.8-0.6 = -0.7 ... OA = 0.7x1.50.203 = 0.78 kpa.

Mitek NZ Ltd. 29 Sept 2010 Kaipara Trusses Signed: J. Hansen



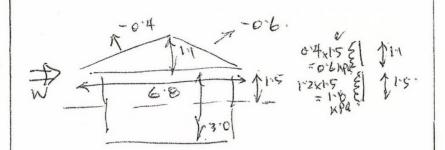
Internal wall studes

2Cp 0-6 -> e.g kpa Ifor6 crl>Wires Mxu/stad = 3:02 x 0154=0.608 kNm .

GB 90X45 (a) 600 crs.

< Mdes/968 FAR NORTH DISTRICT COUNCIL Approved Documents

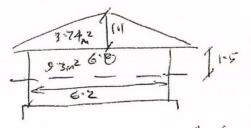
Lateral loads Across



1-1 x 0.6+1.8x1-5 = 3-36 kN/m 3-4m max loaded dimension to a pole > 11.4 kN M\*u/ pole = ( 154) x3 = 5.7x3=17 d KNm Mdes/pole fb 23 × 1.05 € = 24.2 kNm -OK.

transverset Pmax/Asle poles OK FOY TRANSVEYSE

Long itudinal.



Total Long W= 12 x 15 (3.74+9.30) = 23.5 KN. Total 4 poles in Row ea side wall 23.5 = 2-94 kN.

actual = 1.6m - OK.

under fransverse A = 1.17 P = 1.17 x 5.70 with a company of the comp H = V4.25 PL = V4.25 × 17.1 = 034

Longet force/ top , ( than there 1.6m > obma EVENZ Surround OK

for both

Embed ment.



#### **MiTek New Zealand Limited**

Correspondence from : AUCKLAND

40 Neales Road, East Tamaki 2013 PO Box 58-014, Botany 2163 Phone: 09 274 7109

Fax: 09 274 7100

CHRISTCHURCH 14 Pilkington Way, Wigram 8042 PO Box 8387, Riccarton 8440 Phone: 03 348 8691 Fax: 03 348 0314

www.miteknz.co.nz

Printed: 11:25:52 03 Aug 2015

#### MiTek 20/20 Engineering 4.6.6.265

### PRODUCER STATEMENT for MiTek 20/20° TRUSS DESIGN - Version 4.6

ISSUED BY:

MiTek New Zealand Limited

TO:

**Hans Mitt** 

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IN RESPECT OF:

MiTek® Truss Designs

producer statement covers the MiTek 20/20® truss design and the structural performance of the GANG-NAIL® connector plate for the job reference 24246 and may be used by a Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

The MITek 20/20° truss design program has been developed by MITek New Zealand Limited for the design of MiTek \* timber roof, floor and attic trusses in New Zealand. The truss designs computed by MiTek 20/20\* are prepared using sound and widely accepted engineering principles, and in accordance with compliance documents of the New Zealand Building Code and Verification Method B1/VM1; and internationally accepted standard ANSI/TPI 1 - 2002 as an alternative solution to satisfy the requirements of Clause B1 of the New Zealand Building Code.

#### and subject to: On behalf of MiTek New Zealand Limited,

- All proprietary products meeting their performance specification requirements
- The provision of adequate roof bracing and overall building stability ii)
- iii) Correct selection and placement of GANG-NAIL connector plates
- iv) Correct input of Truss Design Data as shown in the Truss Design Statement for this job
- The design being undertaken by the accredited fabricator under the terms of the software licence V)

Lelieve on reasonable grounds that the trusses, if constructed in accordance with the MITek 20/20° truss sign and shop drawings, will comply with the relevant provisions of the New Zealand Building Code.

MITek New Zealand Limited holds a current policy of Professional Indemnity Insurance no less than \$500,000.

On behalf of MiTek New Zealand Limited,

Date: Monday, 3 August 2015

In Ling Ng, BE (Hons), CPEng, IntPE, MIPENZ (ID: 146585) TECHNICAL SERVICES MANAGER, MITEK New Zealand Limited

Truss Design Statement : Page 1

24246

Description: Building Consent No.: MTet 20/20 Engineering 4.5 R.28

Opononi Northland

Printed: 11:25-52 03 Aug 2015

#### TRUSS DESIGN STATEMENT

This statement is issued by MITek New Zealand Limited to the client listed above and may be used by the Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

MITek 20/20° TRUSS DESIGN DATA

The MITek 20/20° computer design for this job is based on the following design parameters entered into the program. The Fabricator shall ensure that these job details are current and relevant to the project for the design of the MITek \* trusses.

1

Job Details

Roof Truss Timber Group: Roof

Master Inventory

Material: Dead Load: Galv Iron .5mm 0.210 kPa 800 mm centres

Restraints: Qur = 0.250 kPa Live Load: Qc = 1.100 kN

Importance Level:

Pitch: Celling

None 0.050 kPa Material: Dead Load:

Restraints: Live Load:

3000 mm centres Qc = 1.400 kN

15.000 deg

Design Working Life: 50 years

Nominal Overhang:

Wind Area:

Pressure Coeff:

Very High (46.0 m/s ) Cpe = varies; Cpi = -0.30, 0.20

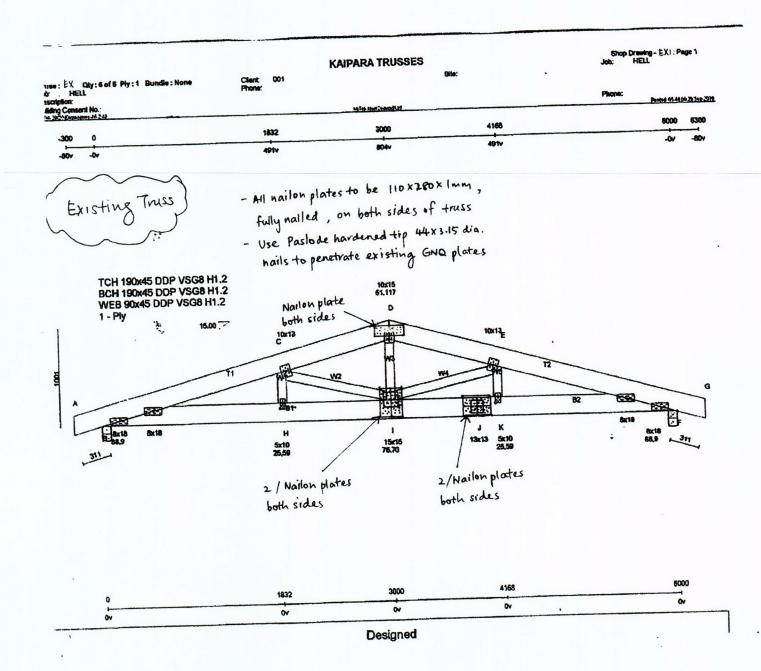
The timber for these MITek\* trusses shall be treated to the requirements of NZS 3602:2003 and shall be graded to the requirements of NZS 3603:1993. Unless otherwise noted, this design assumes that the steel fixings and timber connectors proposed are located in a "closed environment", as defined by NZS3604:2011

Truss

Qty Span Pitch Spacing (deg) (mm) 15.000 3900 (mm) 10 6000

Total quantity: 1

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# GOCRETE CONCRETE

Phone: 021882286

To whom it may concern

**April 2015** 

I Mike O'Halloran am the owner of Number 3, State Highway 12, Opononi where the proposed shed is being built.

I have been in business 25 years plus as a Concreter with many year's experience setting up house floors, shed floors of all kinds, pole shed, raft slabs and pod floors.

If any references are required please phone Firth Industries, Whangarei or Dargaville, Carters Dargaville, ITM, Carter Builders Opononi, Inspectors at the Kaipara District Council.

The holes for the shed were bored by Wayne Baker of Opononi

Thank you

Mike O'Halloran

#### G.N. Carter Builders







Qualified, Certified, Licensed and Local

C/-Opononi PDC, State Highway 12 South Hokianga 0452 carterbuilt@gmail.com Ph – 021616245 094058694

Date: 26/04/15

Customer: To whom it may concern

G N Carter Builders undertook two days work for Mr Mike Ohaloran, To Help with the new Shed On his Opononi property We Installed the top girts and beams, they were bolted to the existing poles to the specifications provided on the day, new factory designed and fabricated roof trusses have been fixed on top of those, with all the necessary proprietary fixings.

Roof purlins ,roof strap braces and long run iron was all fixed by us, but no flashings were required at that time.

The small part of this building we took part in , to my knowledge has been built, as per the plans provided and up to the current building code at the time of construction

Any further questions please feel free to contact us Regards

**GN CARTER BUILDERS**