



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

PRODUCER STATEMENT for MiTek 20/20[®] TRUSS DESIGN - Version 4.6

ISSUED BY: MiTek New Zealand Limited

TO: Paraparaumu Prenail Ltd

IN RESPECT OF: MiTek[®] Truss Designs

This producer statement covers the MiTek 20/20[®] truss design and the structural performance of the GANG-NAIL[®] connector plate for the job reference **7734** 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 Clauses B1 and B2 of the New Zealand Building Code.

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

- i) All proprietary products meeting their performance specification requirements
- ii) The provision of adequate roof bracing and overall building stability
- iii) Correct selection and placement of GANG-NAIL connector plates
- iv) Correct input of Truss Design Data as shown in the Fabricator Design Statement for this job
- v) The design being undertaken by the accredited fabricator under the terms of the software licence
- vi) Timber is graded to the requirements of NZS 3603:1993
- vii) Minimum timber treatment for these MiTek[®] trusses shall be in accordance with B2/AS1 Table 1A and the relevant sections of NZS 3602:2003

I believe on reasonable grounds that the trusses, if constructed in accordance with the MiTek 20/20[®] truss design 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: Wednesday, 3 February 2016

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

Job: 7734

Client: Paraparaumu Prenail Ltd
Phone: 04-902 5618

Site: Waikane Country Lodge
394 Te Moana Road
Waikanae

Description:

Building Consent No.:

MITek 20/20 Engineering 4.6.6.322

MITek New Zealand Limited.

Phone:

Printed: 11:20:10 03 Feb 2016

MITEK FABRICATOR DESIGN STATEMENT

This statement is issued by MITek accredited fabricator Paraparaumu Prenail Ltd, being licensed to use the MITek 20/20[®] software, 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.

Job Details		Importance Level :	2	Design Working Life :	50 years
Roof Truss		Pitch:	22.500 deg	Nominal Overhang:	750 mm
Timber Group:	TRUSS	Ceiling		Wind	
Roof		Material:	Gib Board 13mm	Area:	Medium (37.0 m/s)
Material:	Monier Concrete Tiles	Dead Load:	0.200 kPa	Pressure Coeff:	Cpe = varies; Cpi = -0.30, 0.20
Dead Load:	0.600 kPa	Restraints:	600 mm centres		
Restraints:	400 mm centres	Live Load:	Qc = 1.400 kN		
Live Load:	Q _r = 0.250 kPa Q _c = 1.100 kN				

The minimum timber treatment for these MITek[®] trusses shall be in accordance with B2/AS1 Table 1A and the relevant sections of NZS 3602:2003. The timber for these MITek[®] trusses shall be graded to the requirements of NZS 3603:1993. Proprietary fixings and timber connectors shall be selected in accordance with NZS3604:2011 Section 4 - Durability.

MITek[®] Truss List

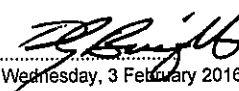
Legend: * = detail only, ? = input only, ~~xxx~~ = failed design, Ø = non certified, Unmarked trusses = designed successfully, LB = lateral bracing required
GB = gable brace required

Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)
PTG01	1	1755	0.000	900	T03A	1	11184	22.500	900	T07B	1	7026	16.000	900
PTG01A	1	1755	0.000	900	T03B	1	11184	22.500	900	T07C	1	7026	16.000	900
PTG02	1	1755	0.000	900	T03C	7	11184	22.500	900	T07D	1	7026	12.500	900
PTG02A	1	1755	0.000	900	T03D	1	11184	22.500	900	T07E	1	7026	12.500	900
PTG03	1	1755	0.000	900	T03E	1	11184	22.500	900	T07F	1	7026	12.500	900
PTG04	1	1755	0.000	900	T03F	1	11184	22.500	900	T07G	1	7026	16.000	900
T01	1	6478	16.000	900	T03G	1	11184	22.500	900	T08	1	4328	12.500	900
T02	1	8873	22.500	900	T04	1	11184	22.500	900	T09	1	5318	12.500	900
T02A	1	8873	22.500	900	T04A	1	11184	22.500	900	T10	1	6308	12.500	900
T02B	1	8873	22.500	900	T04B	1	11184	22.500	900	T11	1	10790	22.500	900
T02C	1	8873	22.500	900	T04C	1	11184	22.500	900	T11A	1	10790	22.500	900
T02D	1	8873	22.500	900	T05	2	5837	22.500	900	T12	1	5595	22.500	900
T02E	1	8873	22.500	900	T06	2	4307	22.500	900	T13	1	3105	22.500	900
T02F	1	8873	22.500	900	T07	1	7026	16.000	900					
T03	1	11184	22.500	900	T07A	1	7026	16.000	900					

Total quantity : 51

The computer design input has been carried out by:

Name of Detailer: David Bright

Signed: 
Date: Wednesday, 3 February 2016

On behalf of: Paraparaumu Prenail Ltd

37 Ihakara St
Paraparaumu
Kapiti Coast
Ph (04) 902-5618



Job: 7734

Client: Paraparaumu Prenail Ltd
Phone: 04-902 5618

Site: Waikane Country Lodge
394 Te Moana Road
Waikanae

Description:
Building Consent No.:
MiTek 20/20 Engineering 4.6.6.322

Phone:
Printed: 11:20:14 03 Feb 2016

MiTek New Zealand Limited.

TRUSS FIXING SELECTION REPORT - Characteristic Loads

Fixings are selected from the LUMBERLOK Brochure 08/2014 (Timber Connectors Characteristic Loadings Data)

MiTek® Truss List

Legend: * = detail only, ? = input only, ~~xxx~~ = failed design, Ø = non certified, Unmarked trusses = designed successfully

Truss	Qty	Span (mm)	Joint	Down (kN)	Uplift (kN)	Bearing	----- Fixing -----	
							Qty	Selected
PTG01	1	1755	C	7.038	0.906	Butt	1	JH 47x120
			D	7.038	0.532	Butt	1	JH 47x120
PTG01A	1	1755	C	7.038	0.906	Butt	1	JH 47x120
			D	7.038	0.532	Butt	1	JH 47x120
PTG02	1	1755	C	5.582	0.477	Butt	1	JH 47x90
			D	5.582	0.102	Butt	1	JH 47x90
PTG02A	1	1755	C	5.582	0.477	Butt	1	JH 47x90
			D	5.582	0.102	Butt	1	JH 47x90
PTG03	1	1755	C	6.697	0.833	Butt	1	JH 47x90
			D	6.697	0.459	Butt	1	JH 47x90
PTG04	1	1755	C	4.234	0.120	Butt	1	JH 47x90
			D	4.234	0.000	Butt	1	JH 47x90
T01	1	6478	J	7.795	0.125	Cross	1	Pair of Wire Dog Staples
			O			Wide		No fixing selected
T02	1	8873	I	0.963	0.158	Cross	1	Pair of Wire Dog Staples
			M	8.484	0.553	Cross	1	Pair of Wire Dog Staples
T02A	1	8873	T	13.115	0.000	Cross	1	Pair of Wire Dog Staples
			B	3.238	0.000	Cross	1	Pair of Wire Dog Staples
T02B	1	8873	M	9.367	0.483	Cross	1	Pair of Wire Dog Staples
			T	12.236	0.000	Cross	1	Pair of Wire Dog Staples
T02C	1	8873	B	3.236	0.000	Cross	1	Pair of Wire Dog Staples
			M	10.451	0.421	Cross	1	Pair of Wire Dog Staples
T02D	1	8873	T	11.219	0.000	Cross	1	Pair of Wire Dog Staples
			B	3.242	0.000	Cross	1	Pair of Wire Dog Staples
T02E	1	8873	M	8.806	0.525	Cross	1	Pair of Wire Dog Staples
			T	12.795	0.000	Cross	1	Pair of Wire Dog Staples
T02F	1	8873	B	3.237	0.000	Cross	1	Pair of Wire Dog Staples
			M	9.866	0.456	Cross	1	Pair of Wire Dog Staples
T03	1	11184	T	11.736	0.000	Cross	1	Pair of Wire Dog Staples
			B	3.236	0.000	Cross	1	Pair of Wire Dog Staples
T03A	1	11184	M	10.794	0.418	Cross	1	Pair of Wire Dog Staples
			U	10.880	0.000	Cross	1	Pair of Wire Dog Staples
T03B	1	11184	B	3.240	0.000	Cross	1	Pair of Wire Dog Staples
			M	7.886	0.591	Cross	1	Pair of Wire Dog Staples
T03C	7	11184	S	13.844	0.000	Cross	1	Pair of Wire Dog Staples
			B	3.252	0.000	Cross	1	Pair of Wire Dog Staples
T03D	1	11184	B	13.298	0.545	Cross	1	Pair of Wire Dog Staples
			L	11.982	0.884	Cross	1	Pair of Wire Dog Staples
T03E	1	11184	B	12.100	0.444	Cross	1	Pair of Wire Dog Staples
			L	0.222	0.415	Cross	1	Pair of Wire Dog Staples
T03F	1	11184	U	13.142	1.101	Cross	1	Pair of Wire Dog Staples
			B	12.775	0.501	Cross	1	Pair of Wire Dog Staples
T03G	1	11184	V	11.651	1.156	Cross	1	Pair of Wire Dog Staples
			B	13.256	0.555	Cross	7	Pair of Wire Dog Staples
T04	1	11184	L	13.256	0.555	Cross	7	Pair of Wire Dog Staples
			B	11.629	0.407	Cross	1	Pair of Wire Dog Staples
T04A	1	11184	L	3.403	0.000	Cross	1	Pair of Wire Dog Staples
			V	11.970	1.084	Cross	1	Pair of Wire Dog Staples
T04B	1	11184	B	11.674	0.410	Cross	1	Pair of Wire Dog Staples
			L	1.525	0.012	Cross	1	Pair of Wire Dog Staples
T04C	1	11184	U	12.081	1.008	Cross	1	Pair of Wire Dog Staples
			N	10.536	0.590	Cross	1	Pair of Wire Dog Staples
T04D	1	11184	L	3.465	0.000	Cross	1	Pair of Wire Dog Staples
			W	11.603	1.037	Cross	1	Pair of Wire Dog Staples
T05	2	5837	A	2.999	0.155	Cross	1	Pair of Wire Dog Staples
			K	3.187	0.000	Cross	1	Pair of Wire Dog Staples
T05	2	5837	M	8.058	0.010	Cross	1	Pair of Wire Dog Staples
			V	11.760	0.833	Cross	1	Pair of Wire Dog Staples
T05	2	5837	B	17.990	1.458	Cross	1	Pair of Wire Dog Staples
			M	6.183	0.830	Butt	2	JH 47x90

Paraparaumu Prenail Ltd

Job: 7734

Client: Paraparaumu Prenail Ltd
Phone: 04-902 5618

Site: Waikane Country Lodge
394 Te Moana Road
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Description:

Building Consent No.:

MiTek 20/20 Engineering 4.6.6.322

MiTek New Zealand Limited.

Phone:

Printed: 11:20:14 03 Feb 2016

Truss	Qty	Span (mm)	Joint	Down (kN)	Uplift (kN)	Bearing	----- Fixing -----	
							Qty	Selected
T06	2	4307	B	5.971	0.000	Cross	2	Pair of Wire Dog Staples
			I	4.523	0.669	Butt	2	JH 47x90
T07	1	7026	L	9.294	0.000	Cross	1	Pair of Wire Dog Staples
			I	8.375	1.263	Cross	1	Pair of Wire Dog Staples
			A	1.116	0.312	Cross	1	Pair of Wire Dog Staples
			J	2.027	0.338	Cross	1	Pair of Wire Dog Staples
			Q	2.290	0.988	Cross	1	Pair of Wire Dog Staples
T07A	1	7026	J	9.726	1.038	Cross	1	Pair of Wire Dog Staples
			O			Wide		No fixing selected
T07B	1	7026	F	1.731	0.146	Cross	1	Pair of Wire Dog Staples
			J	9.726	1.038	Cross	1	Pair of Wire Dog Staples
T07C	1	7026	O			Wide		No fixing selected
			F	1.731	0.146	Cross	1	Pair of Wire Dog Staples
			J	9.726	1.038	Cross	1	Pair of Wire Dog Staples
T07D	1	7026	O			Wide		No fixing selected
			F	1.731	0.146	Cross	1	Pair of Wire Dog Staples
			K	7.679	0.447	Cross	1	Pair of Wire Dog Staples
T07E	1	7026	S	7.849	0.546	Cross	1	Pair of Wire Dog Staples
			M	7.508	0.427	Cross	1	Pair of Wire Dog Staples
T07F	1	7026	U	9.842	0.886	Cross	1	Pair of Wire Dog Staples
			L	1.246	0.224	Cross	1	Pair of Wire Dog Staples
			K	7.738	0.452	Cross	1	Pair of Wire Dog Staples
			S	8.651	0.772	Cross	1	Pair of Wire Dog Staples
T07G	1	7026	J	0.661	0.125	Cross	1	Pair of Wire Dog Staples
			I	9.750	1.036	Cross	1	Pair of Wire Dog Staples
			N			Wide		No fixing selected
T08	1	4328	A	1.712	0.151	Cross	1	Pair of Wire Dog Staples
			F	4.943	0.198	Cross	1	Pair of Wire Dog Staples
T09	1	5918	J	5.881	0.000	Cross	1	Pair of Wire Dog Staples
			G	5.968	0.291	Cross	1	Pair of Wire Dog Staples
T10	1	6308	M	6.489	0.082	Cross	1	Pair of Wire Dog Staples
			H	6.995	0.383	Cross	1	Pair of Wire Dog Staples
T11	1	10790	O	7.095	0.342	Cross	1	Pair of Wire Dog Staples
			A	16.950	1.317	Cross	1	Pair of Wire Dog Staples
T11A	1	10790	K	16.252	1.009	Cross	1	Pair of Wire Dog Staples
			A	16.947	1.778	Cross	1	Pair of Wire Dog Staples
T12	1	5595	K	16.256	1.258	Cross	1	Pair of Wire Dog Staples
			J	5.691	0.807	Butt	1	JH 47x90
T13	1	3105	O	7.215	0.000	Cross	1	Pair of Wire Dog Staples
			A	3.338	0.021	Cross	1	Pair of Wire Dog Staples
			E	3.338	0.464	Butt	1	JH 47x90

Fixing List

Qty	Selected Fixing
4	JH 47x120
14	JH 47x90
102	Pair of Wire Dog Staples
5	No fixing selected

Note:

- 1) Fixings have been selected based on loading only. Please check that selected fixings are practical for each situation and that appropriate nailing can be applied on site.
- 2) Fixings are selected from the LUMBERLOK Brochure 08/2014 (Timber Connectors Characteristic Loadings Data) with down and uplift characteristic loads of at least the values shown for each joint.