

Job: BADCOCKT

Client: Roger Gilchrist
Phone:Site: AWAMO ROAD
OAMARU

Description:

Phone:

Printed: 15/33/26 26 May 2005

MiTek 20/20 - Engineering 4.3 Gamma4 (Build 1228)

MiTek New Zealand Ltd.

PRODUCER STATEMENT
MiTek 20/20™ TRUSS DESIGN PROGRAM**Certification of MiTek 20/20™ Truss Design Program**

The MiTek 20/20™ truss design program has been developed by MiTek New Zealand Ltd for the design of GANG-NAIL timber roof, floor and attic trusses in New Zealand. The truss designs computed by this program are prepared using sound and widely accepted engineering principles, and in accordance with NZS 4203, NZS 3603 and NZS 3604 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. This computer design for the proposed building complies with the relevant provisions of the NZ Building Code. This is subject to all proprietary products meeting their performance specification requirements, the provision of adequate bracing, fixings and the correct input of design data carried out by suitably trained personnel.

Summary of MiTek 20/20™ Truss Design Data and Output

The MiTek 20/20™ computer design output for this job titled and located at the site identified on the top of this page is based on the following parameters entered into the program. The owner must ensure that the following job details below are current and relevant to the project before fabrication and erection of the GANG-NAIL trusses.

Job Details**Roof Truss**

Timber Group:	~DF No.1Fr x50	Pitch:	20.00 deg	Std Overhang:	600 mm
Roof		Ceiling		Wind	
Material:	Light	Material:	Standard	Area:	High (44.0 m/s)
Dead Load:	0.250 kPa	Dead Load:	0.200 kPa	Pressure Coeff:	Cpe = varies; Cpi = -0.30, 0.20
Restraints:	900 mm centres	Restraints:	400 mm centres	Snow	
Live Load:	Q _{ur} = 0.250 kPa			Location:	Oamaru at 100 m
	Q _c = 1.000 kN			Open Ground Load:	0.550 kPa
				Basic Roof Load:	0.550 kPa

These trusses must be fabricated and erected in accordance with the GANG-NAIL manual. Proper erection 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 fixing must be installed before any loads are applied. The specifications for timber shall be as shown on the output. The timber shall be standard galvanized and treated to the requirements of NZMP 3640. Unless otherwise noted, this design assumes that the steel fixings and timber connectors are situated in a closed environment, as defined by NZS 3640:1999 Section 4.

Truss List

Legend: * = detail only, ? = input only, Txx = failed design, Unmarked trusses = designed successfully

Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)
ET02	1	6330	27.00	900	J01H	1	3106	27.00	900	J06B	1	3106	27.00	900	*HB01	1	6468	19.81	900
J09A	1	3142	27.00	900	J02	1	2206	27.00	900	J06C	1	3106	27.00	900	*HB02	1	5619	19.81	900
J09B	1	3141	27.00	900	J02A	1	2206	27.00	900	J06D	1	3106	27.00	900	*HB03	4	4198	19.81	900
T01	1	3730	27.00	900	J02B	1	2206	27.00	900	J07	1	2206	27.00	900	*HB04	1	6538	19.81	900
T02	7	8060	27.00	900	J02E	1	2206	27.00	900	J07A	1	2206	27.00	900	*HB05	1	2887	19.81	900
T02A	1	8060	27.00	900	J03	1	1306	27.00	900	J08	1	1306	27.00	900	*HB06	1	5315	19.81	900
T03	1	4850	27.00	900	J03A	1	1306	27.00	900	J08A	1	1306	27.00	900	*HB07	1	1663	19.81	900
T03A	1	4850	27.00	900	J03B	1	1306	27.00	900	J09	1	3141	27.00	900	*R01	1	1020	27.00	900
T04	1	8060	27.00	900	J03E	1	1306	27.00	900	J10	1	2241	27.00	900	*R01A	1	1020	27.00	900
T07	3	6330	27.00	900	J04	1	2401	27.00	900	J10A	1	2241	27.00	900	*R02	5	914	27.00	900
T10	1	2730	27.00	900	J04A	1	2401	27.00	900	J11	1	1341	27.00	900	*R02A	6	914	27.00	900
T11	1	6330	27.00	900	J04B	1	2401	27.00	900	J11A	1	1341	27.00	900	*R03	1	314	27.00	900
TG01	1	8060	27.00	900	J04C	1	2401	27.00	900	PT01	1	1143	0.00	900	*R04	2	1215	27.00	900
TG02	1	8060	27.00	900	J04D	2	2401	27.00	900	PTG01	1	1952	0.00	900	*R04A	2	1215	27.00	900
ET01	1	3730	27.00	900	J05	2	1501	27.00	900	T05	1	3730	27.00	900	*R05	1	1020	27.00	900
HTG01	1	3106	27.00	900	J05A	2	1501	27.00	900	T06	5	4850	27.00	900	*R06	2	914	27.00	900
J01	1	3106	27.00	900	J05B	2	1501	27.00	900	T08	2	2730	27.00	900	*R06A	2	914	27.00	900
J01A	1	3106	27.00	900	J05C	2	1501	27.00	900	T09	1	8060	27.00	357	*R07	1	1055	27.00	900
J01B	1	3106	27.00	900	J06	1	3106	27.00	900	T12	1	1108	-27.00	900					
J01C	1	3106	27.00	900	J06A	1	3106	27.00	900	V01	1	1930	27.00	900					

Total quantity : 112

The computer design input has been carried out by:

Signed: 

Date: 21-6-05

Name of Computer Operator:

Qualifications and Title:

Company: PlaceMakers

Verification / Acceptance of Input Data:

I have checked the input data against the construction drawings and specifications and verify that they are correct and suitable for this job.

Signed:

Date:

Name:

Company: