AS BUILT TRUSS BC200635 RECEIVED 21/10/2021

MiTek New Zealand Limited

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PRODUCER STATEMENT for MiTek 20/20® TRUSS DESIGN - Version 4.7

ISSUED BY: **MiTek New Zealand Limited**

TO: **Kaiapoi ITM Building Centre**

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 **092020J** 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.

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: Thursday, 21 October 2021**



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

AS BUILT TRUSS BC200635 RECEIVED 21/10/2021

Job: 092020J
Client: Misco Joinery
Phone:
Site: New Residence
Lot 156
33 Tara Crescent
Woodend
Phone:
Description:
Building Consent No.:

MITEK FABRICATOR DESIGN STATEMENT

This statement is issued by MiTek accredited fabricator **Kaiapoi ITM Building Centre**, 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

Timber Group: DDFx45 H1.2

Pitch: 25.000 deg

Nominal Overhang: 600 mm

Roof

Material: Galv Iron .5mm
Dead Load: 0.210 kPa
Restraints: 900 mm centres
Live Load: Qur = 0.250 kPa
Qc = 1.100 kN

Ceiling

Material: Standard Plaster Board 13mm
Dead Load: 0.210 kPa
Restraints: 600 mm centres
Live Load: Qc = 1.400 kN

Wind

Area: High (44.0 m/s)
Pressure Coeff: Cpe = varies; Cpi = -0.30, 0.20

Snow

Location: Woodend (N4) at 100 m
Open Ground Load: 0.900 kPa
Basic Roof Load: 0.441 kPa

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, ~~Txx~~ = 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)
T01	2	10010	25.000	900	J01C	1	3182	25.000	900	J10A	2	1212	25.000	900
TR02	1	10010	25.000	900	J01B	1	3182	25.000	900	J10	2	1212	25.000	900
TR01	1	7200	25.000	900	J02B	2	2282	25.000	900	J08	1	957	25.000	900
TG01	1	7200	25.000	900	J02	1	2282	25.000	900	V01	1	1555	25.000	900
TG02	1	8308	25.000	900	J02A	1	2282	25.000	900	V02	1	1405	25.000	900
T02	1	7360	25.000	900	J11A	1	1757	25.000	900	V03	1	1324	25.000	900
TG03	1	7360	25.000	900	J11	2	1757	25.000	900	*HB01	1	3360	18.249	900
T03	1	4270	25.000	900	J03A	2	1382	25.000	900	*HB02	2	7895	18.249	900
T05	2	4270	25.000	900	J03	2	1382	25.000	900	*HB03	1	4662	18.249	900
T05A	2	4270	25.000	900	J06A	1	2757	25.000	900	*HB04	1	6021	18.249	900
T03A	1	4270	25.000	900	J06	1	2757	25.000	900	*HB05	1	2343	18.249	900
T04A	2	4983	25.000	900	J05	1	740	25.000	900	*HB06	2	3836	18.249	900
T04	1	4983	25.000	900	J05A	1	740	25.000	900	*HB07	2	3334	18.249	900
T06A	1	3560	25.000	900	J04	1	580	25.000	900	*R01	2	1073	25.000	900
T06	1	3560	25.000	900	J09B	1	2112	25.000	900	*R02	10	891	25.000	900
J01E	2	3182	25.000	900	J09	1	2112	25.000	900	*R03	2	903	25.000	900
J01A	4	3182	25.000	900	J09A	1	2112	25.000	900	*R04	2	1448	25.000	900
J01	4	3182	25.000	900	J07A	1	1857	25.000	900					
J01D	1	3182	25.000	900	J07	1	1857	25.000	900					

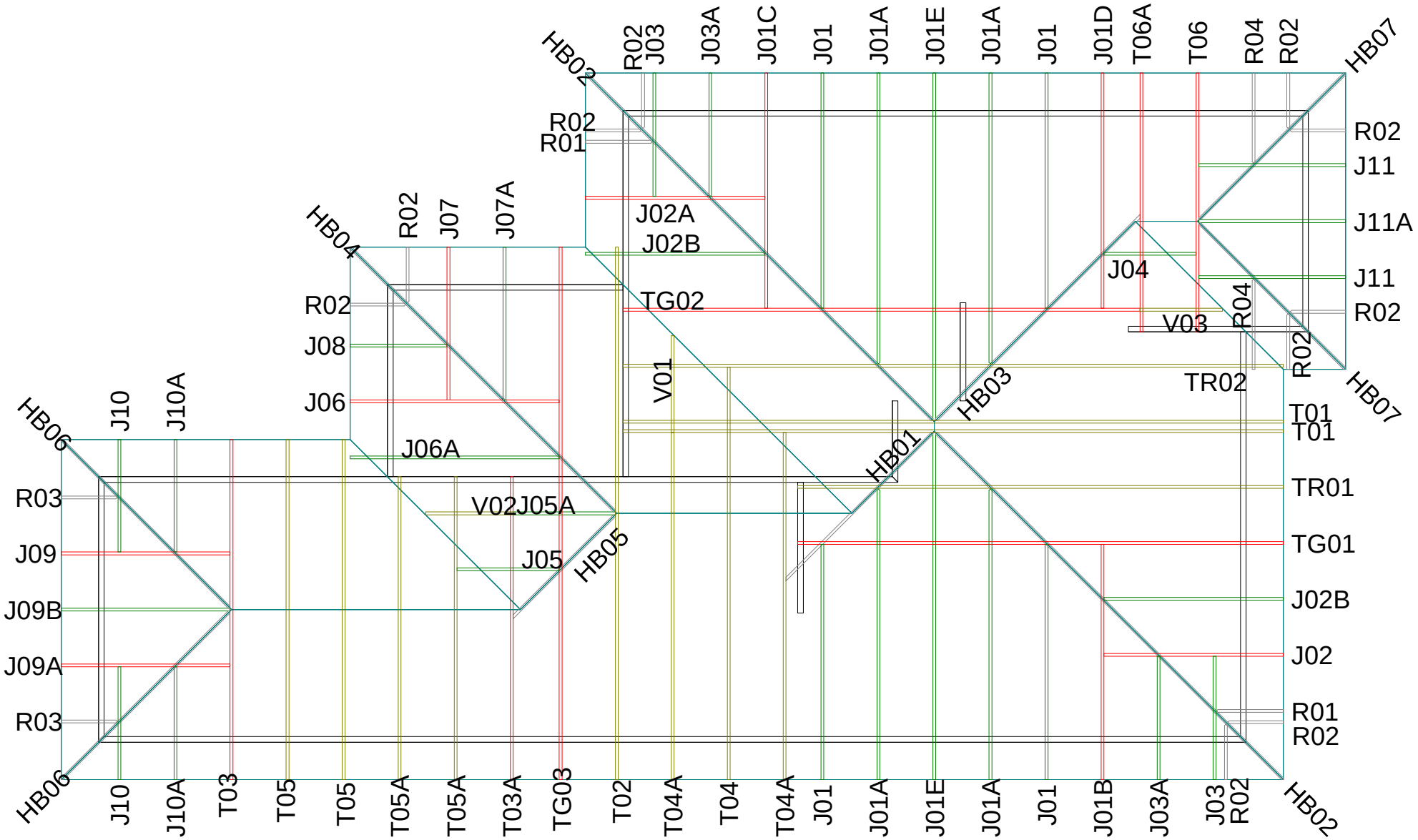
Total quantity : 87

The computer design input has been carried out by:

Signed: ..... Date: Thursday, 21 October 2021

Name of Detailer: Vern Harkerss Qualifications and Title:

On behalf of: Kaiapoi ITM Building Centre



KAIAPOI ASHBURTON TIMARU

Site Address :
New Residence
Lot 156
33 Tara Crescent
Woodend

Sheet Title :
As Built BC 200635
Buildable Truss Layout

Date : 21 Oct,2021 | Drawn : Vern Harkerss
Scale : 1: 100 | System : MiTek 20/20

Job Details:

Roof Pitch	: 25.00deg	Truss Centres	: 900mm
Roof Material	: Galv Iron .5mm	Roof Live Load	: 0.250kPa
Ceiling Material	: Standard Plaster Board 13mm	Floor Live Load	:
Wind Zone	: High	Wind Speed	: 44m/s
Roof Snow Load	: 0.441kPa	Overhang	: 600mm

PrimeCad v4.7.334

MiTek™

Job Title : 092020J
Sheet : 1
Revision Number :

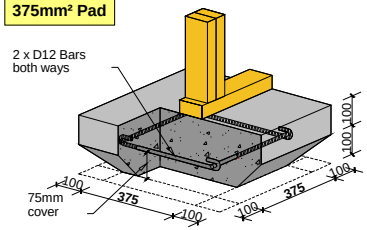
AS BUILT TRUSS BC200635

RECEIVED 21/10/2021

SLAB THICKENING & STUD REQUIREMENTS

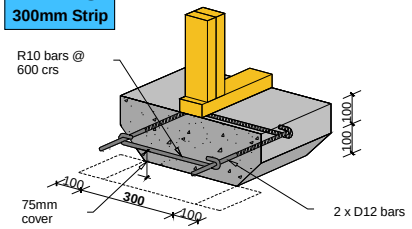
TYPE FP1
375mm² Pad

2 | 3



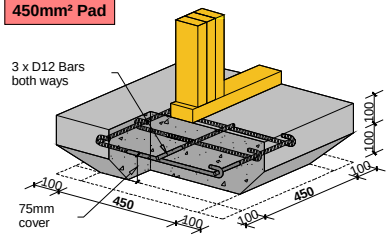
TYPE FS1
300mm Strip

2 | 3



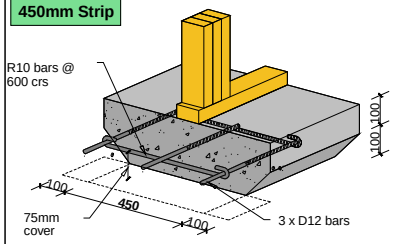
TYPE FP2
450mm² Pad

3 | 4



TYPE FS2
450mm Strip

3 | 4

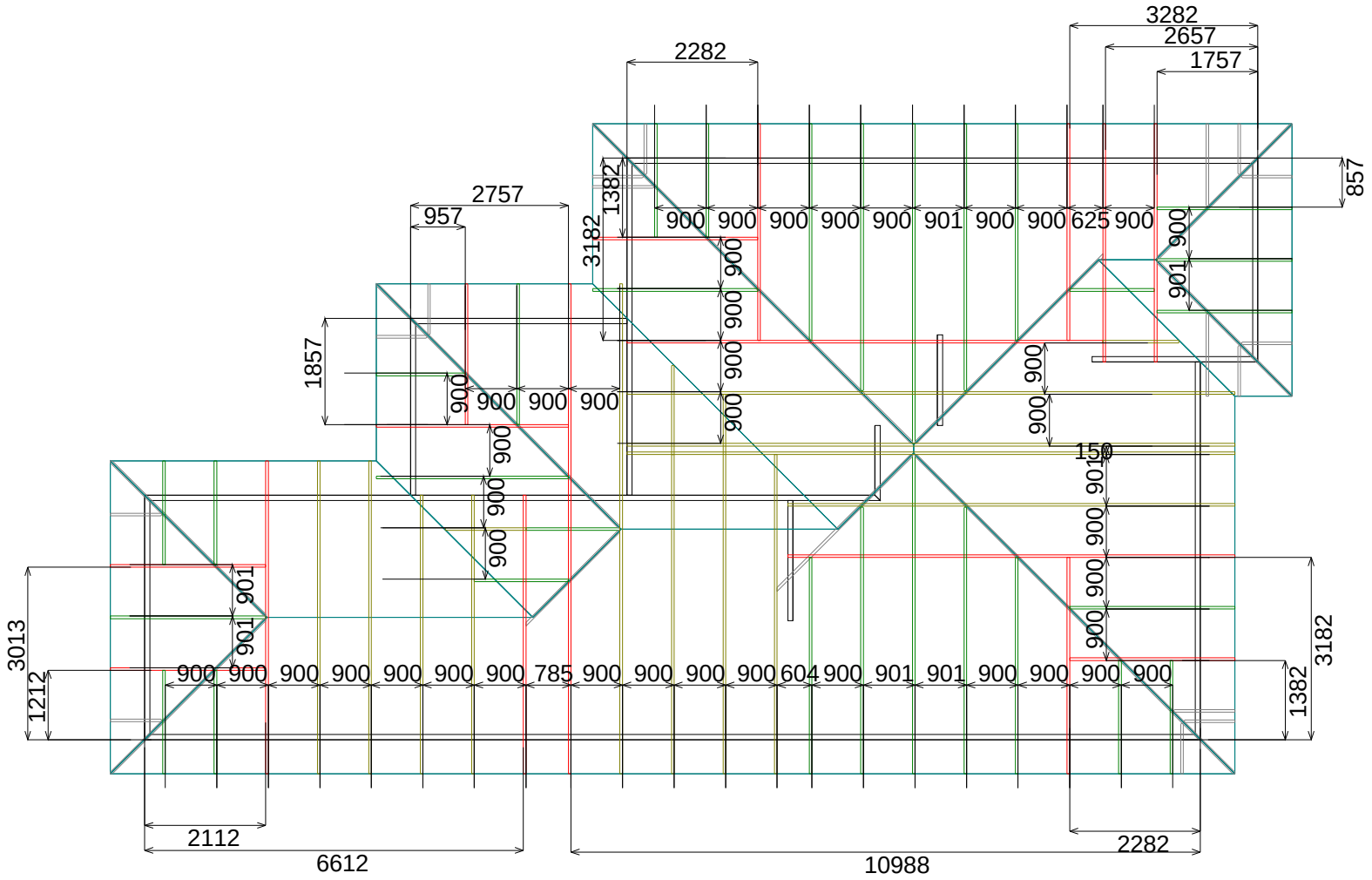


Notes:
- The numbers found in the hatched areas are the numbers of studs required below each truss
- Standard 100mm reinforcing concrete slab, as per NZS3604:2011

Refer to:
MiTek Internal Load Bearing on Concrete Floor Slabs 10/2011
MiTek Structural Fixings **On-Site Guide** for Building Code Compliance

Concrete Slab Thickening Guide





SLAB THICKENING as per consented producer statement

KAIAPOI TIMARU ASHBURTON

Site Address :
New Residence
Lot 156
33 Tara Crescent
Woodend

Sheet Title :
As Built BC 200635
Slab Thickening

Date : 21 Oct,2021 | Drawn : Vern Harkerss
Scale : 1: 100 | System : MiTek 20/20

Job Details:

Roof Pitch	: 25.00deg	Truss Centres	: 900mm
Roof Material	: Galv Iron .5mm	Roof Live Load	: 0.250kPa
Ceiling Material	: Standard Plaster Board 13mm	Floor Live Load	:
Wind Zone	: High	Wind Speed	: 44m/s
Roof Snow Load	: 0.441kPa	Overhang	: 600mm

MiTek

Job Title : 092020J
Sheet : 2
Revision Number :

LUMBERLOK®

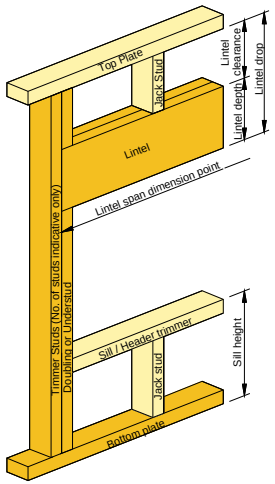
LINTEL FIXING OPTIONS

TYPE E
1.4 kN

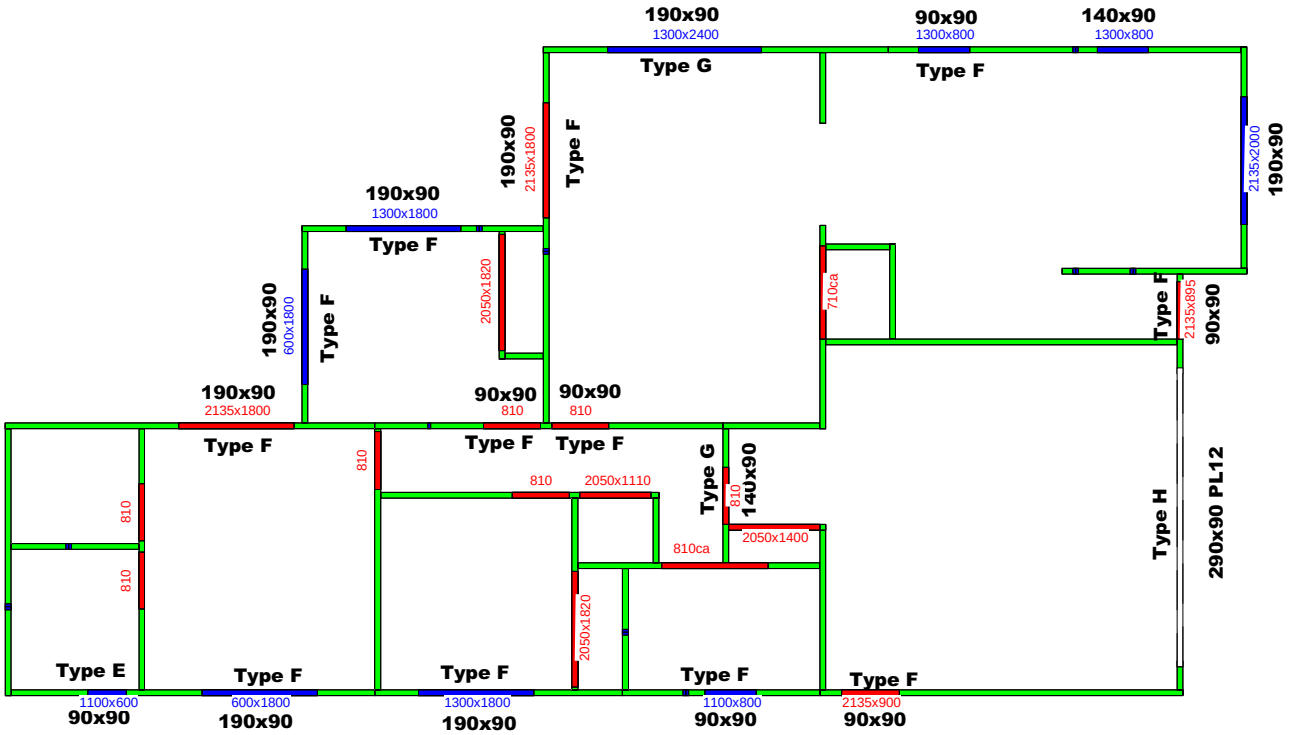
TYPE F
4.0 kN

TYPE G
7.5 kN

TYPE H
13.5 kN



Lintels designed from Mitek Beam April 2012 and Prolam Summary October 2021



Refer to:
LUMBERLOK Lintel Fixing Schedule 10/2011
MiTek Structural Fixings **On-Site Guide** for Building Code Compliance
(Alternative to Table 8.14 & Figure 8.12 NZS 3604:2011)

KAIAPOI
ASHBURTON
TIMARU

Site Address :
New Residence
Lot 156
33 Tara Crescent
Woodend

Sheet Title :
As Built BC 200635
Lintel Fixing

Date : 21 Oct,2021 | Drawn : Vern Harkerss
Scale : 1: 100 | System : MiTek 20/20

Job Details:

Roof Pitch	: 25.00deg	Truss Centres	: 900mm
Roof Material	: Galv Iron .5mm	Roof Live Load	: 0.250kPa
Ceiling Material	: Standard Plaster Board 13mm	Floor Live Load	:
Wind Zone	: High	Wind Speed	: 44m/s
Roof Snow Load	: 0.441kPa	Overhang	: 600mm

PrimeCad v4.7.334

MiTek™

Job Title : 092020J
Sheet : 3
Revision Number :

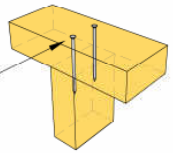
BOWMAC® STUD-LOK

STUD TO TOP PLATE FIXING OPTIONS

*Images are indicitive only. Timber sizes may vary.

TYPE A - 0.7 kN

Non-Load Bearing Walls



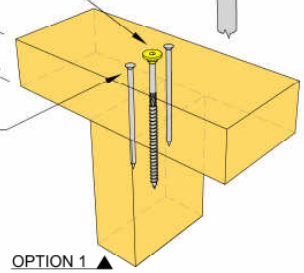
2 x 90mm x 3.15 Ø plain steel wire nails driven vertically through single Top Plate into stud

TYPE B - 4.7 kN

Load Bearing Walls

STUD-LOK SL125
- Yellow Head
- 125mm long

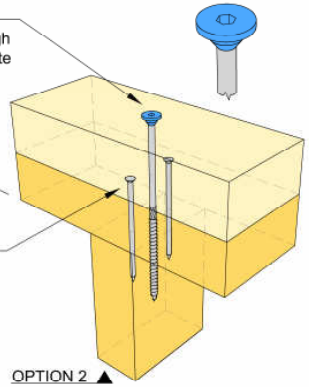
1 x STUD-LOK **SL125** screwed vertically through single Top Plate into stud.



OPTION 1 ▲

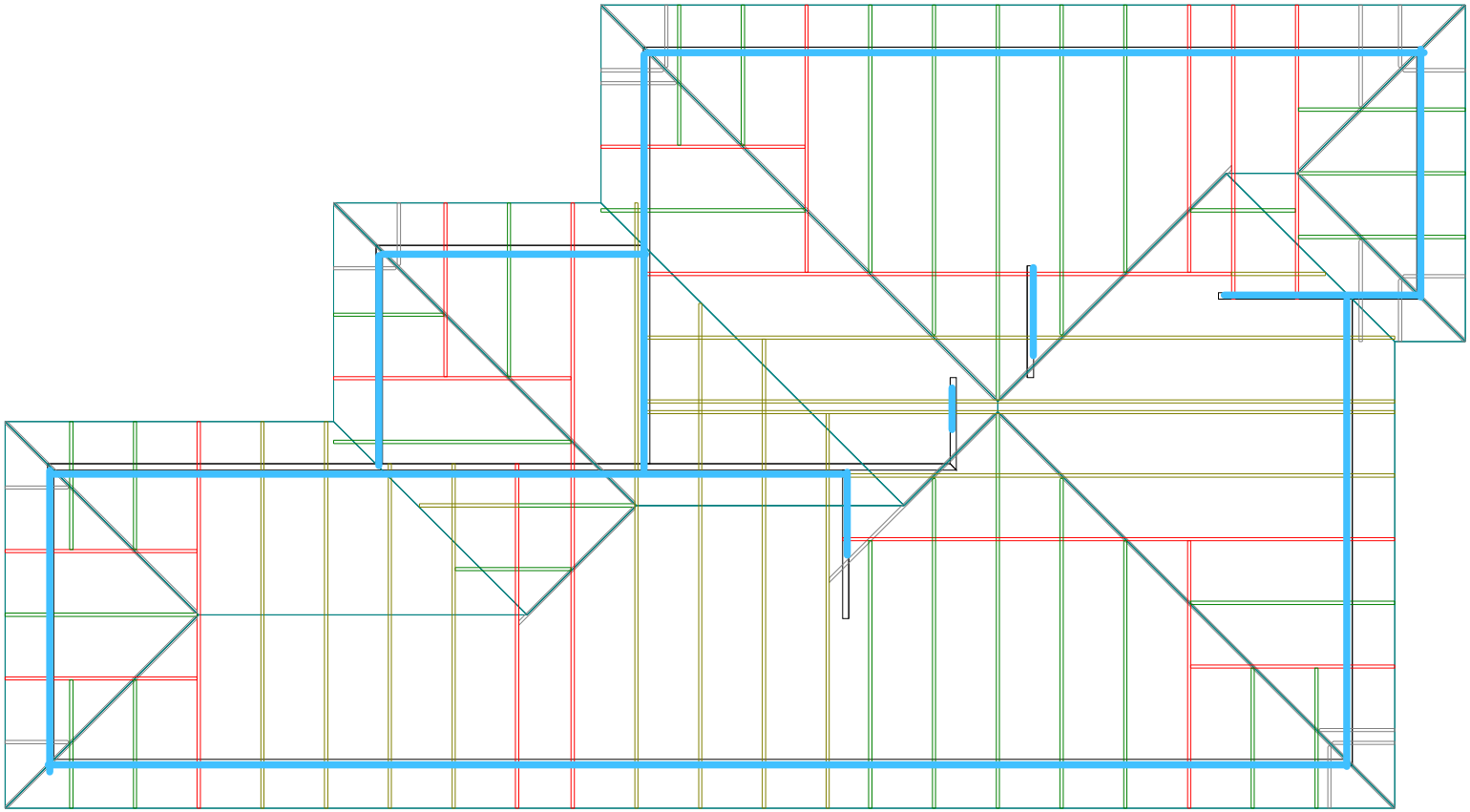
STUD-LOK SL170
- Blue Head
- 170mm long

1 x STUD-LOK **SL170** screwed vertically through single or double Top Plate into stud.



OPTION 2 ▲

(Alternative to NZS 3604:2011 Section 8)



KAIAPOI TIMARU ASHBURTON

Site Address :
New Residence
Lot 156
33 Tara Crescent
Woodend

Sheet Title :
As Built BC 200635
Stud To Top Plate Fixing

Date : 21 Oct,2021 | Drawn : Vern Harkerss
Scale : 1: 100 | System : MiTek 20/20

Job Details:

Roof Pitch	: 25.00deg	Truss Centres	: 900mm
Roof Material	: Galv Iron .5mm	Roof Live Load	: 0.250kPa
Ceiling Material	: Standard Plaster Board 13mm	Floor Live Load	:
Wind Zone	: High	Wind Speed	: 44m/s
Roof Snow Load	: 0.441kPa	Overhang	: 600mm

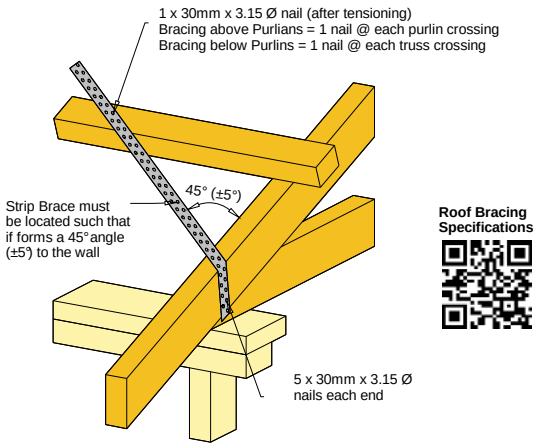
PrimeCad v4.7.334

MiTek™

Job Title : 092020J
Sheet : 4
Revision Number :

Truss BC restraints @ 600mm centres by ceiling battens

LUMBERLOK ROOF BRACING



Roof Bracing Specifications

Refer to:
LUMBERLOK Roof Bracing Specifications 10/2011
MiTek Structural Fixings **On-Site Guide** for Building Code Compliance (As per NZS 3604:2011)

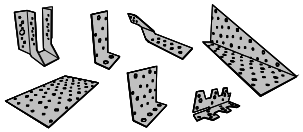
LUMBERLOK TRUSS FIXINGS

D - Pair of Wire Dogs and 2 x 90mm 3.15mm skew nails
X - LUMBERLOK JH47x90 Joist Hanger
Z - LUMBERLOK JH47x120 Joist Hanger
P - LUMBERLOK JH47x190 Joist Hanger
E - LUMBERLOK JH95x165 Joist Hanger
T - LUMBERLOK CT200 Ceiling Tie
O - Pair of LUMBERLOK CT200 Ceiling Ties
H - LUMBERLOK CT400 Cyclone Tie
B - LUMBERLOK CT600 Cyclone Tie
4 - LUMBERLOK Multi Grip
M - Pair of LUMBERLOK Multi Grips
NP - LUMBERLOK Nailon Plate
N - LUMBERLOK N21 Diagonal Cleat
V - LUMBERLOK CPC40 Cleat
W - Pair of LUMBERLOK CPC40 Cleats
K - LUMBERLOK TTP 16kN Truss to Top Plate set
G - LUMBERLOK TTP 9kN Truss to Top Plate set

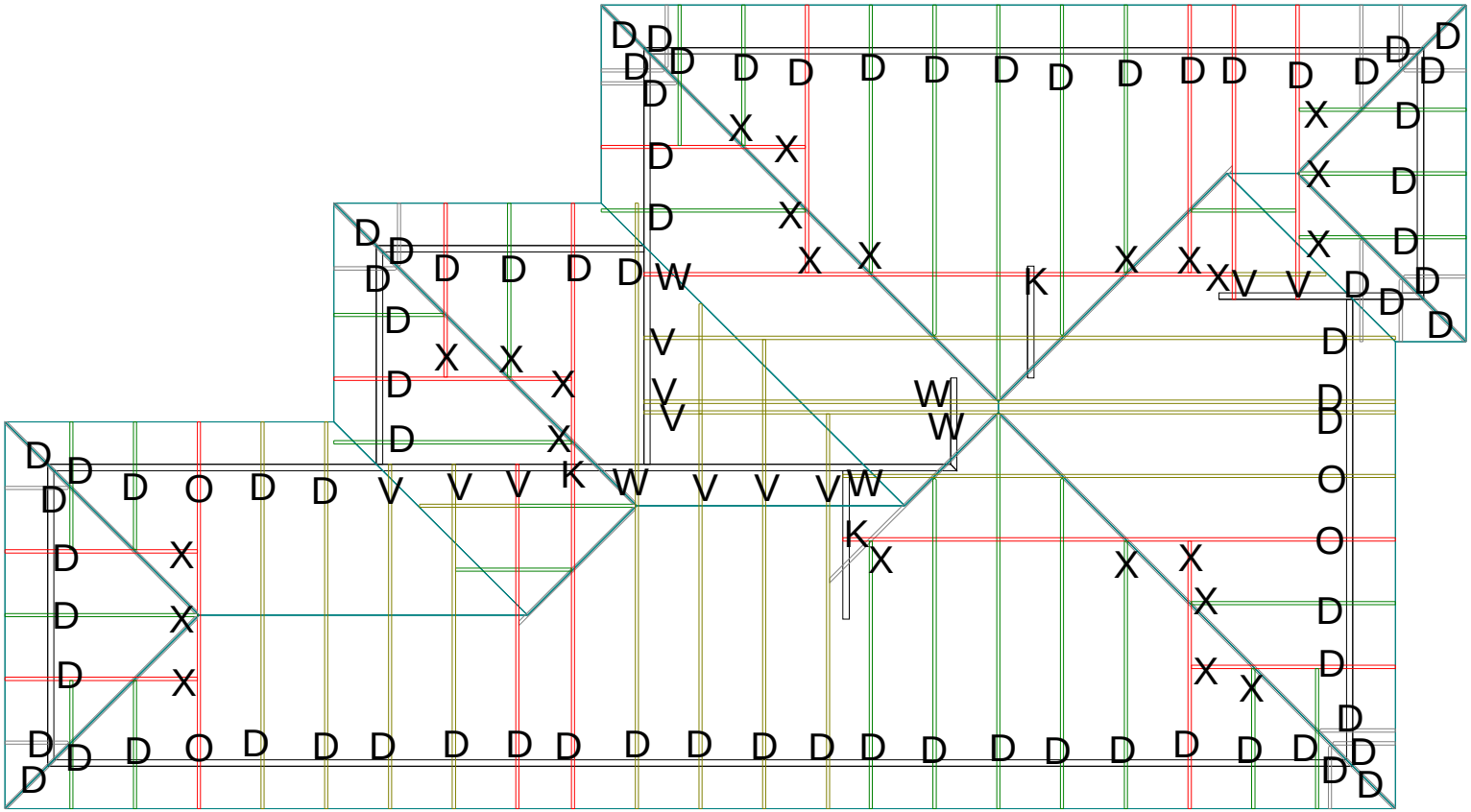
Joist Hanger Installation

CT200 Truss to Top Plate Fixing Installation

16kN & 9kN Truss to Top Plate Fixing Installation



Notes:
All other areas must have the minimum 2 x 90mm 3.15mm skew nails and 2 x wire dogs for truss to top plate connections
Refer to:
LUMBERLOK Timber Connectors Characteristic Loadings Data Brochure 08/2014



KAIAPOI TIMARU ASHBURTON

Site Address :
New Residence
Lot 156
33 Tara Crescent
Woodend

Sheet Title :
As Built BC 200635
Truss Fixings & Roof Bracing

Date : 21 Oct,2021 | Drawn : Vern Harkerss
Scale : 1: 100 | System : MiTek 20/20

Job Details:

Roof Pitch	: 25.00deg	Truss Centres	: 900mm
Roof Material	: Galv Iron .5mm	Roof Live Load	: 0.250kPa
Ceiling Material	: Standard Plaster Board 13mm	Floor Live Load	:
Wind Zone	: High	Wind Speed	: 44m/s
Roof Snow Load	: 0.441kPa	Overhang	: 600mm

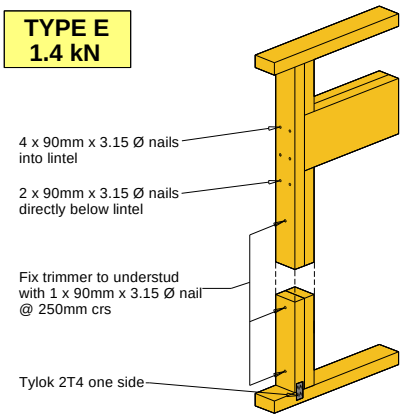
PrimeCad v4.7.334

MiTek

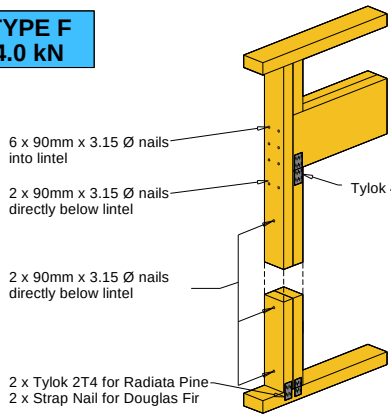
Job Title : 092020J
Sheet : 5
Revision Number :

LUMBERLOK® LINTEL FIXING OPTIONS

TYPE E 1.4 kN



TYPE F 4.0 kN



Tylok Plate Installation

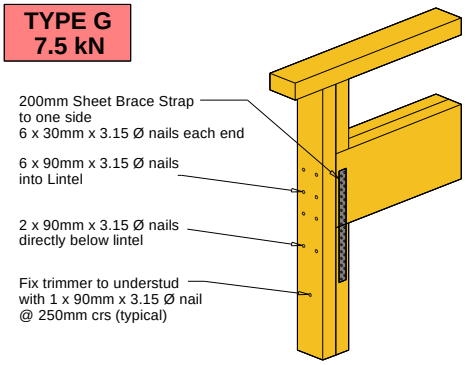
Notes:

For fixing of jack studs to lintel and top plate, refer to Stud to Top Plate Fixing Schedule

Stud numbers indicative only. Refer to Table 8.5 NZS 3604:2011

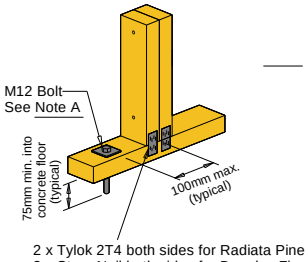
LUMBERLOK Lintel Fixing Schedule 10/2011, MiTek Structural Fixings On-Site Guide for Building Code Compliance (Alternative to Table 8.14 & Figure 8.12 NZS 3604:2011)

TYPE G 7.5 kN

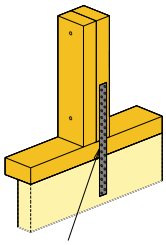


Note A:

M12 proprietary concrete fixing bolt with 50x50x3mm square washer
Or
M12 x 150mm coach screw with 50x50x3mm square washer into timber joist/bearer

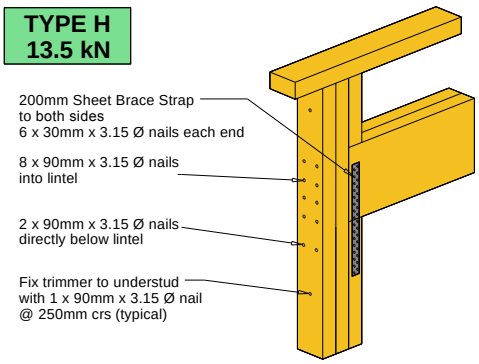


2 x Tylok 2T4 both sides for Radiata Pine
2 x Strap Nail both sides for Douglas Fir



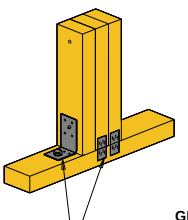
400mm Sheet Brace Strap to one side.
6 x 30mm x 3.15 Ø nails into stud.
3 x 30mm x 3.15 Ø nails into bottom plate.
6 x 30mm x 3.15 Ø nails into timber joist/bearer

TYPE H 13.5 kN



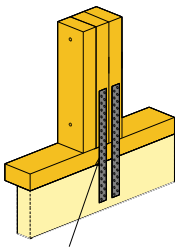
Note A:

M12 proprietary concrete fixing bolt with 50x50x3mm square washer
Or
M12 x 150mm coach screw with 50x50x3mm square washer into timber joist/bearer



GIB ® HandiBracT M and
2 x Tylok 2T4 both sides

GIB HandiBrac Installation



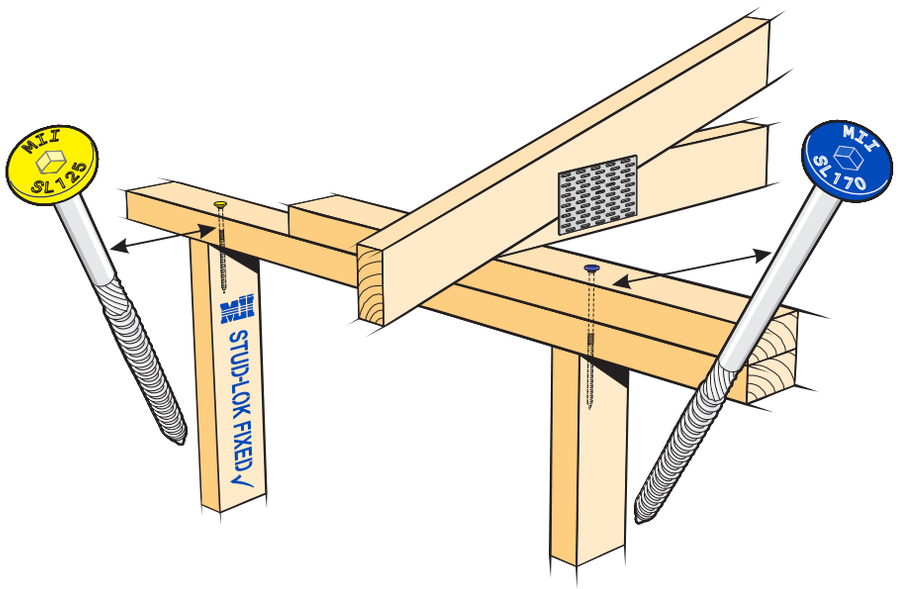
2 x 400mm Sheet Brace Strap to one side.
6 x 30mm x 3.15 Ø nails into stud.
3 x 30mm x 3.15 Ø nails into bottom plate.
6 x 30mm x 3.15 Ø nails into timber joist/bearer

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AS BUILT TRUSS BC200635 RECEIVED 21/10/2021
DEC 2017

NOTICE

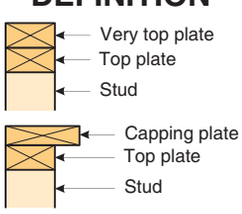
BOWMAC® STUD-LOK
Top Plate to Stud Fixing



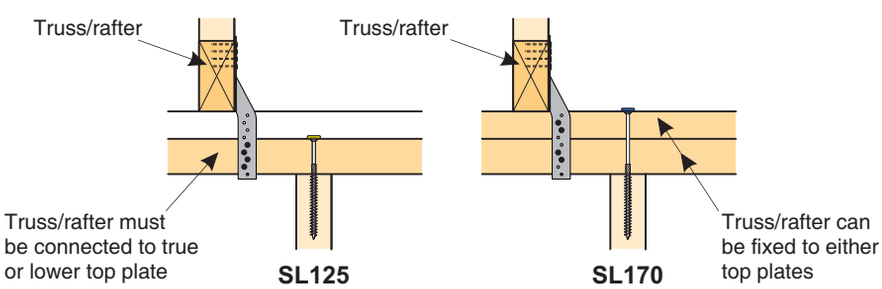
Inspection Note:

This wall frame has used the BOWMAC® STUD-LOK SL125 or SL170 as a method of fixing the top plate to the stud in place of the LUMBERLOK® Stud Strap or Type B fixings as shown on the MiTek 'Stud to Top Plate Fixing' template on the accompanying truss and frame design.
Where the BOWMAC® STUD-LOK SL125 or SL170 has been applied in the factory by an accredited MiTek Fabricator, identification of this is by the "**STUD-LOK✓**" noted on the load bearing walls around the structure.

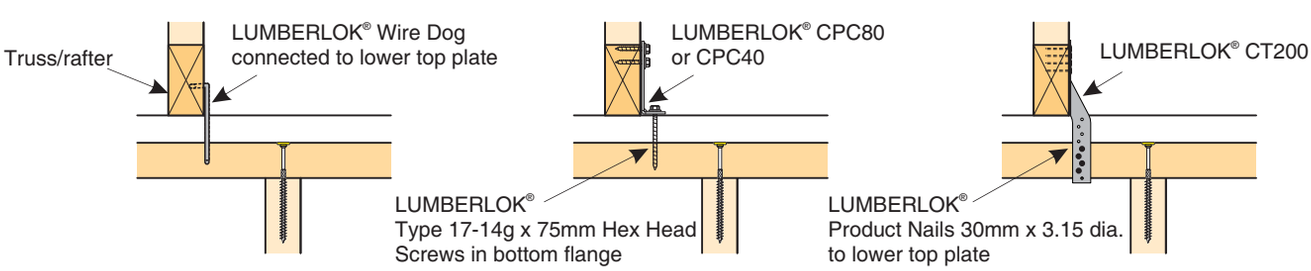
TOP PLATE DEFINITION



TRUSS/RAFTER TO TOP PLATE CONNECTIONS



TRUSS/RAFTER TO TOP PLATE CONNECTIONS WHERE BOWMAC® STUD-LOK SL125 IS USED



Where the BOWMAC® STUD-LOK SL170 is used to fix through the 'Very Top Plate' or 'Capping Plate', the truss fixings can be connected to any of these plates.

MiTek®
MITEK® LUMBERLOK® BOWMAC®

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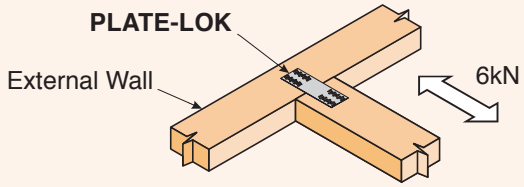
TOP PLATE CONNECTIONS AS REQUIRED BY CLAUSE 8.7.3 NZS 3604:2011

LUMBERLOK®

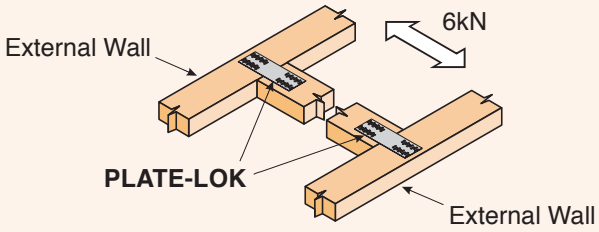
① Top plate joints for walls at right angles to external walls:

(a) Walls with bracing elements not exceeding 125 bracing units (BU) require a 6kN capacity connection to one external wall.

(b) Walls with bracing elements not exceeding 250 BU require a 6kN capacity connection to two external walls.

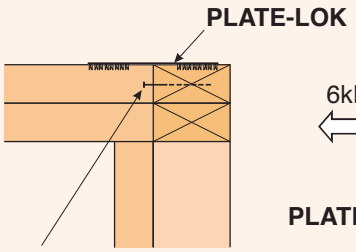


Wall bracing up to 125 BU

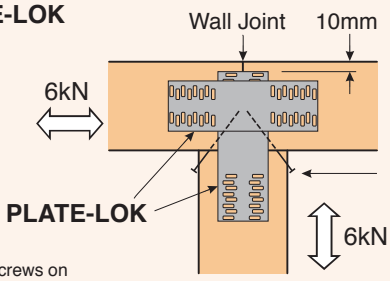


Wall bracing between 125 BU & 250 BU

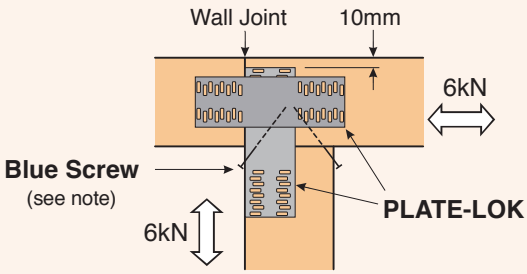
② Details of top plate joints using LUMBERLOK PLATE-LOK at "T" junction walls are shown below:



Note: Fix with a pair of LUMBERLOK Blue Screws on sides of top plate for Douglas fir and LVL8 only

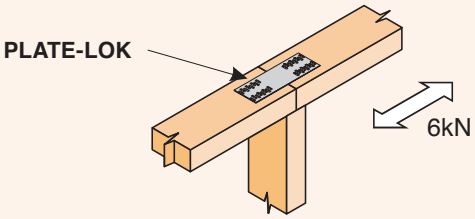


Centre Wall Joint

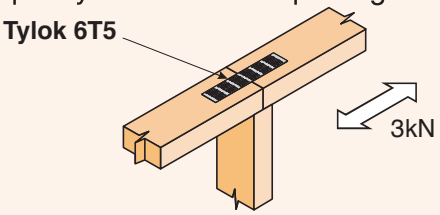


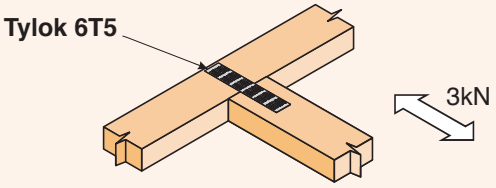
Side Wall Joint

③ Top plate joints for all walls in line that have wall bracing elements exceeding 100 BU or have a ceiling diaphragm attached require a 6kN capacity connection as per Figure 8.15 NZS 3604:2011.



④ Top plate joints for walls at right angles and in line that have either no bracing elements or are on a single storey building only with wall bracing demands not exceeding 100 BU require a 3kN capacity connection as per Figure 8.15 & 8.16 NZS 3604:2011.





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MITEK® LUMBERLOK® BOWMAC®

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AS BUILT TRUSS BC200635 RECEIVED 21/10/2021

Prolam Specifier
Specify with Certainty

Reference 092020J

Certificate Number tNjHOfIGie

PROLAM SUMMARY

20 October 2021

Misco Joinery

33 Tara Crescent Woodend

1. Lintel Supporting Girder or Setback Truss

a) Garage D2

PL12H1-300100

(Non-visual)

Lintel Span	4.5 m	Building Type	House
Supported Girder Truss		Wind Zone	High
Span	7.2 m	Wet in Service	No
Girder Truss Setback	3.2 m	Snow Zone	N4
Eaves Width	0.6 m	Site Elevation	100
Truss Position on Lintel	2.0 m	Roof Type	Light (0.25 kPa)
Roof Pitch	25.0 °	Ceiling Type	Standard (0.15 kPa)
Member Depth	290 mm	Capacity Ratio	1.1
Member Width	90 mm	Rigidity Ratio	1.3
Uplift Restraint Required	**6.7 kN**	Support Reaction	12.4 kN
Residual Deflection	1.3 mm	Critical Load Combination	1.2G + Su + psi_cQp
Absolute Deflection	9.5 mm		

Notes: Residual deflection is long term deflection below horizontal after pre-camber, absolute deflection is maximum beam movement.

PRODUCER STATEMENT

TASMAN CONSULTING ENGINEERS CIVIL & STRUCTURAL

Tasman Consulting Engineers Limited has been engaged by Prowood Limited to provide design services as used for the Prolam on-line calculator.

This producer statement covers the design of the member(s) as above for the input parameters shown utilising the Prowood products listed (substitution is not permitted). The design has been carried out using sound and widely accepted engineering principles to the requirements of AS/NZS1170:2002, NZS3603:1993 and with reference to NZS3604:2011.

I believe on reasonable grounds that the above design will meet the requirements of clause B1/VM1 of the New Zealand Building Code Documents.

David King

14 June 2021 (2.0.10)

David King

ME(civil) CMEngNZ CPEng(no 145511) IntPE(NZ)

For Tasman Consulting Engineers, PO Box 3631, Richmond, NELSON 7050

AS BUILT TRUSS BC200635 RECEIVED 21/10/2021

Kaiapoi I.T.M.

Job No: 092020J
Job Name: Misco Joinery
Client: New Residence
Building Consent No: BC 200635
Site: Lot 156 - 33 Tara Crescent

PRODUCER STATEMENT
MiTek Beam Program v1.07 April 2012

Certification of MiTek Beam Program v1.07 April 2012

The MiTek Beam Program v1.07 April 2012 has been developed by MiTek New Zealand Ltd for the design of these beams: Timber, Glulam, GANGLAM and GANG-NAIL FLITCH BEAMS. The beam designs calculated by this program 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 to satisfy the requirements of Clause B1 of the Building Code. We believe on reasonable grounds that these beams for the proposed building, if constructed in accordance with the drawings, specifications and other documents provided will comply 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 and fixings; and the correct input of design data carried out by suitably trained personnel.

Summary of MiTek Beam Program v1.07 February 2009 Data and Output

Roof		**Wind**		**Wall**	
Weight:	light + ceiling	Area/Speed:	high (44.0 m/s)	Type:	NA
Dead Load:	0.45 kPa				
Live Load:	0.25 kPa	**Snow**		**Floor**	
		Area:	0.6 kPa	Live Load:	NA

Beam List

Opening Label	Beam Material	Beam Size	Beam Length	Design Status	Opening Label	Beam Material	Beam Size	Beam Length	Design Status
Garage D1	MSG8/VSG8	2/90x45	900	OKAY					
Bath W1	MSG8/VSG8	2/90x45	800	OKAY					
Bed 3 W1	MSG8/VSG8	2/190x45	1800	OKAY					
Master W1	MSG8/VSG8	2/190x45	1800	OKAY					
Ensuite W1	MSG8/VSG8	2/90x45	600	OKAY					
Master D1	MSG8/VSG8	2/190x45	1800	OKAY					
Bed 2 W1	MSG8/VSG8	2/190x45	1800	OKAY					
Bed 2 W2	MSG8/VSG8	2/190x45	1800	OKAY					
Dining D1	MSG8/VSG8	2/190x45	1800	OKAY					
Dining W1	MSG8/VSG8	2/190x45	2400	OKAY					
Family W1	MSG8/VSG8	2/90x45	800	OKAY					
Family W2	MSG8/VSG8	2/140x45	800	OKAY					
Family W3	MSG8/VSG8	2/190x45	2000	OKAY					
Entry D1	MSG8/VSG8	2/90x45	900	OKAY					
Kitchen D1	MSG8/VSG8	2/90x45	900	OKAY					
	MSG8/VSG8	2/90x45	900	OKAY					
Launrdy D1	MSG8/VSG8	2/140x45	900	OKAY					

GANGLAM plating details indicated with RD (regular duty plating), HD (heavy duty plating) and SHD (super heavy duty plating)

The design input has been carried out by:

Signed:……

Date: 21/10/2021

Name of Computer Operator: Vern Harkerss

Qualifications and Title: Detailer

Company: Kaiapoi I.T.M.

AS BUILT TRUSS BC200635 RECEIVED 21/10/2021

MiTek Beam v1.07 February 2009

Date: Thursday, 21 October 2021
Job Number 092020J
Job Name Misco Joinery
Client New Residence
Calculated By Vern Harkerss

Roof Weight light + ceiling
Wind Zone high (44.0 m/s)
Snow Load 0.6 kPa

Beam Details

Beam Label	Garage D1	Bath W1	Bed 3 W1	Master W1	Ensuite W1	Master D1	Bed 2 W1	Bed 2 W2	Dining D1	Dining W1
Beam Span (mm)	900	800	1800	1800	600	1800	1800	1800	1800	2400
Roof Span "S" (mm)	3182	4270	4270	4270	1212	4270	2757	1857	2282	3137
Overhang (mm)	600	600	600	600	600	600	600	600	600	600
Wall Type	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wall Height (mm)										
Floor Live load	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Floor Span "F" (mm)										

MiTek Bearing Reactions

Not in use in this version

)										
)										
)										

Point Load 1										
Girder Span (mm)			4270							
Setback (mm)			740							
Location (mm)			900							
Point Load 2										
Girder Span (mm)										
Setback (mm)										
Location (mm)										
Point Load 3										
Girder Span (mm)										
Setback (mm)										
Location (mm)										
Beam Status	**OKAY**	**OKAY**	**OKAY**	**OKAY**	**OKAY**	**OKAY**	**OKAY**	**OKAY**	**OKAY**	**OKAY**
Beam Material	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8
Beam Size	2/90x45	2/90x45	2/190x45	2/190x45	2/90x45	2/190x45	2/190x45	2/190x45	2/190x45	2/190x45
Beam Deflection	0.46mm	0.36mm	1.23mm	0.98mm	0.05mm	0.98mm	0.71mm	0.55mm	0.62mm	2.45mm
Beam Length	900	800	1800	1800	600	1800	1800	1800	1800	2400

AS BUILT TRUSS BC200635 RECEIVED 21/10/2021

MiTek Beam v1.07 February 2009

Date: Thursday, 21 October 2021
Job Number 092020J
Job Name Misco Joinery
Client New Residence
Calculated By Vern Harkerss

Roof Weight light + ceiling
Wind Zone high (44.0 m/s)
Snow Load 0.6 kPa

Beam Details

Beam Label	Family W1	Family W2	Family W3	Entry D1	Kitchen D1	Bed 2 D1	Launrdy D1			
Beam Span (mm)	800	800	2000	900	900	900	900			
Roof Span "S" (mm)	3137	3560	1757	3880	4983	7360	7200			
Overhang (mm)	600	600	600	600						
Wall Type	NA	NA	NA	NA	NA	NA	NA			
Wall Height (mm)										
Floor Live load	NA	NA	NA	NA	NA	NA	NA			
Floor Span "F" (mm)										

MiTek Bearing Reactions

Not in use in this version

Point Load 1										
Girder Span (mm)		3560					7200			
Setback (mm)		3700					3182			
Location (mm)		400					450			

Point Load 2										
Girder Span (mm)										
Setback (mm)										
Location (mm)										

Point Load 3										
Girder Span (mm)										
Setback (mm)										
Location (mm)										

Beam Status	**OKAY**	**OKAY**	**OKAY**	**OKAY**	**OKAY**	**OKAY**	**OKAY**			
Beam Material	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8	MSG8/VSG8			
Beam Size	2/90x45	2/140x45	2/190x45	2/90x45	2/90x45	2/90x45	2/140x45			
Beam Deflection	0.28mm	0.31mm	0.8mm	0.53mm	0.52mm	0.77mm	0.77mm			
Beam Length	800	800	2000	900	900	900	900			