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40 Neales Road, East Tamaki 2013
PO Box 58-014, Botany 2163
Phone: 09 274 7109
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CHRISTCHURCH
14 Pilkington Way, Wigram 8042
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MiTek 20/20 Engineering 4.6.6.322

Printed: 11:09:10 26 Sep 2016

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

ISSUED BY: **MiTek New Zealand Limited**

TO: **Building ConneXion Ltd t/a ITM Building Centres**

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 **16-170G** 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: Monday, 26 September 2016

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

Job:	16-170G	Client:	O B G	Site:	G & L PHILIP 184 HORTON ROAD BEULAH ESTATE TASMAN	Phone:	
Description:	PHILIP RESIDENCE						
Building Consent No.:							
MiTek 20/20 Engineering 4.6.6.322			MiTek New Zealand Limited.				Printed: 11:09:10 26 Sep 2016

MITEK FABRICATOR DESIGN STATEMENT

This statement is issued by MiTek accredited fabricator **Building ConneXion Ltd t/a ITM Building Centres**, 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:	DDP SG8 H1.2	Pitch:	25.000 deg	Nominal Overhang:	600 mm
Roof		Ceiling		Wind	
Material:	Metal Tiles	Material:	Gib Board 12mm	Area:	Very High (50.0 m/s)
Dead Load:	0.210 kPa	Dead Load:	0.200 kPa	Pressure Coeff:	Cpe = varies; Cpi = -0.30, 0.20
Restraints:	400 mm centres	Restraints:	600 mm centres	Snow	
Live Load:	Qur = 0.250 kPa	Live Load:	Qc = 1.400 kN	Location:	Nelson (N3) at 220 m
	Qc = 1.100 kN			Open Ground Load:	0.300 kPa
				Basic Roof Load:	0.400 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, ✕ = 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)
V01	1	1200	20.000	900	T01A	2	5085	20.000	718	*R04	4	1018	0.000	623
T06	1	800	0.000	900	T01	1	5130	20.000	718	*R03	5	800	20.000	900
T05	1	2100	20.000	900	*R11	5	1400	20.000	542	*R02	4	973	0.000	623
T04B	2	7590	20.000	884	*R10	3	255	0.000	750	*R01	2	2865	20.000	900
T04A	1	7590	20.000	884	*R09	1	1575	20.000	900	ET03	1	6390	20.000	884
T04	5	7590	20.000	884	*R08	9	1139	0.000	775	ET02	1	5990	20.000	879
T03	4	6390	20.000	884	*R07	2	4095	20.000	900	ET01	1	5130	20.000	718
T02A	1	5990	20.000	879	*R06	8	1134	0.000	767	EN02	1	1010	20.000	900
T02	6	5990	20.000	879	*R05	2	3295	20.000	900	EN01	1	1200	20.000	900

Total quantity : 75

The computer design input has been carried out by:

Signed: 

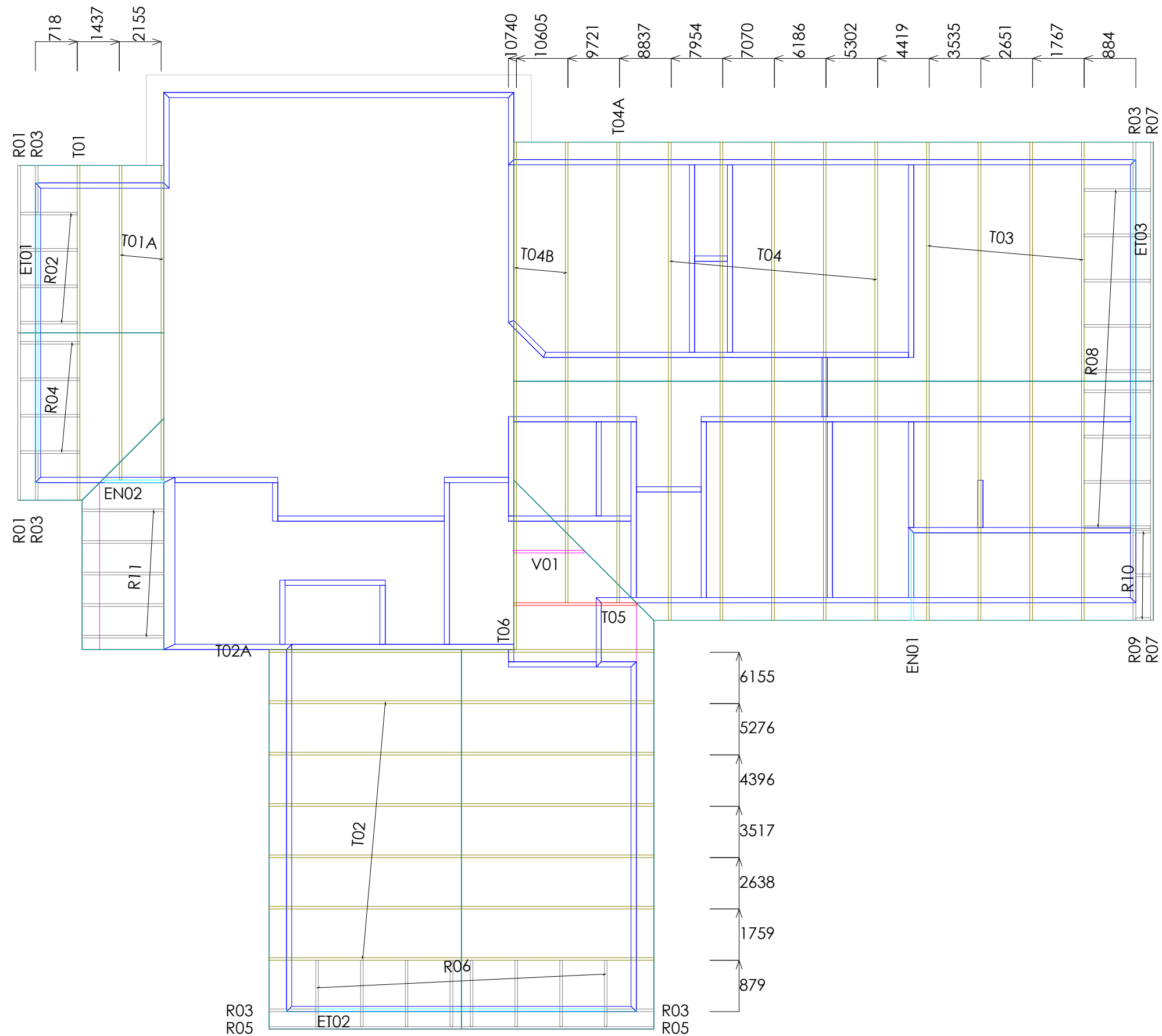
Date: Monday, 26 September 2016

Name of Detailer: Craig Ranson

Qualifications and Title: Detailer

On behalf of: Building ConneXion Ltd t/a ITM Building Centres





PrimeCad v4.6.6.322

VOID IF ITM FRAME AND TRUSS ARE NOT FABRICATORS



Site Address :
G & L PHILIP
184 HORTON ROAD
BEULAH ESTATE
TASMAN

Sheet Title :
AS BUILT
As Built Truss Layout

Date : 6 Sep.2016
Scale : 1:100
Drawn : Craig Ranson
System : MiTek 20/20

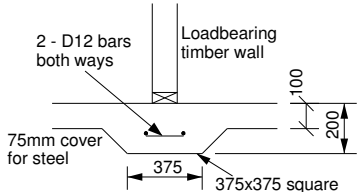
Job Details:
Roof Pitch : 20.000 Deg
Roof Material : Metal Tiles
Ceiling Material : Gib Board 12mm
Wind Zone : Very High
Roof Snow Load : 0.400 kPa

Truss Centres : 900 mm
Roof Live Load : 0.250kPa
Floor Live Load : kPa
Wind Speed : 50.0 m/s

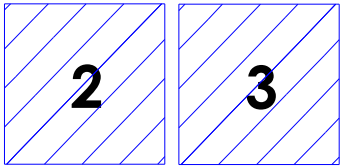


Job Title :
16-170G
Sheet :
1
Revision Number :

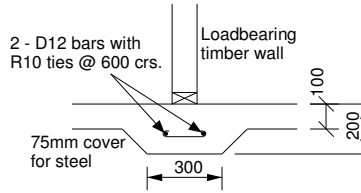
Slab Thickening Details



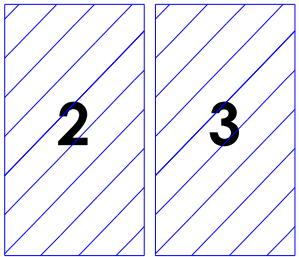
TYPE FP1 - 375x375mm Pad



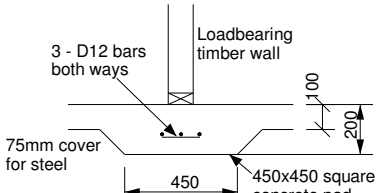
Number of Understuds



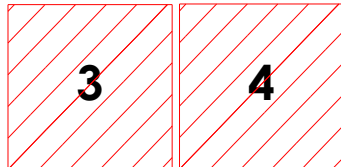
TYPE FS1 - 300mm Strip footing



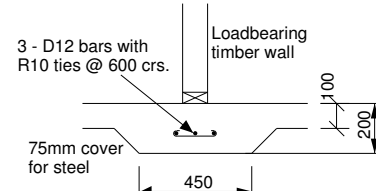
Number of Understuds



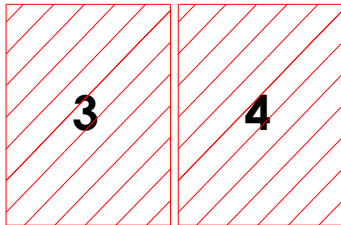
TYPE FP2 - 450x450mm Pad



Number of Understuds



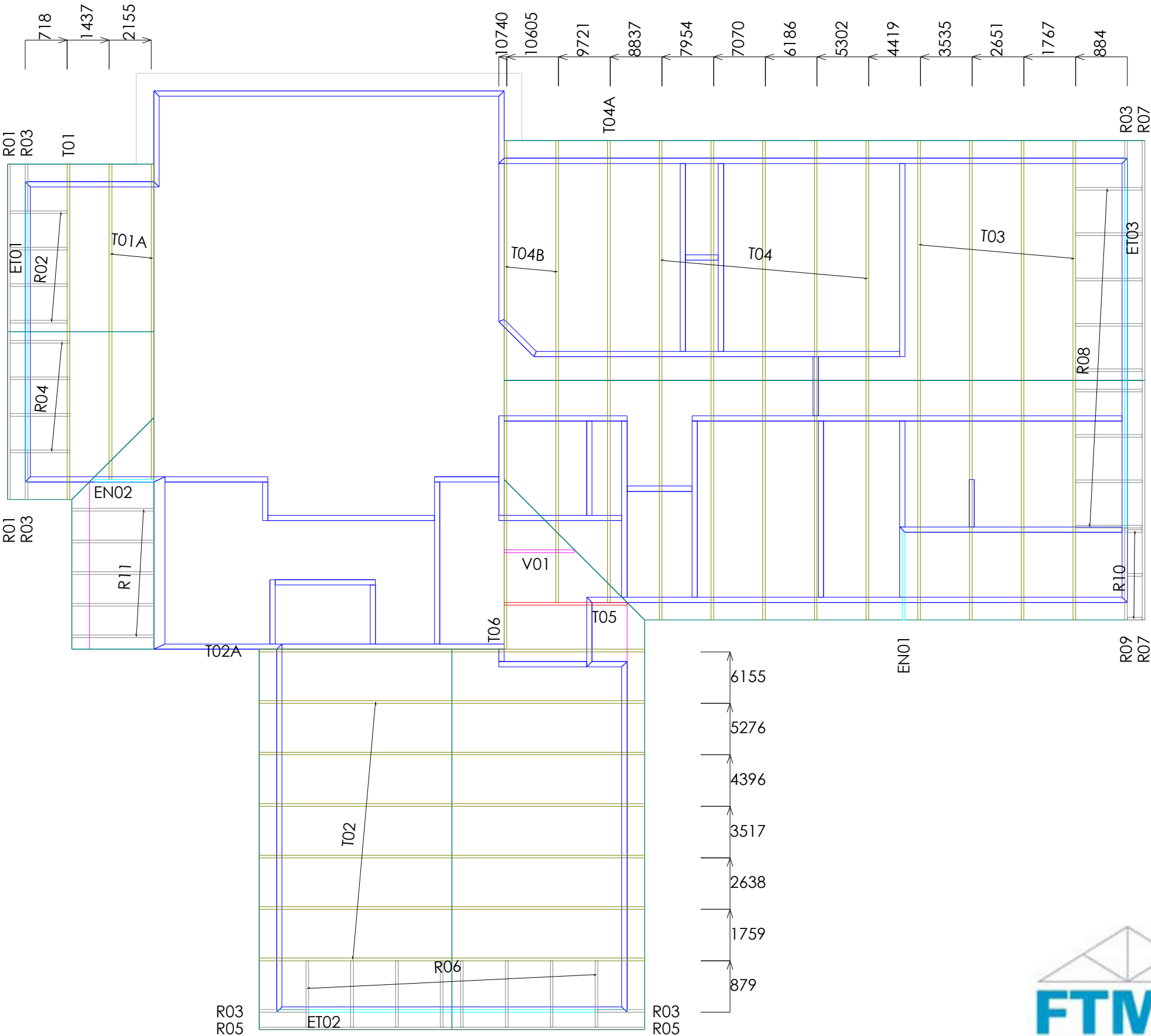
TYPE FS2 - 450mm Strip footing



Number of Understuds

NOTES:

The numbers found within the hatched area is the number of studs required below each truss. Refer to: GANG-NAIL Internal Load Bearing on Concrete Floor Slabs brochure 12/2006



NO SLAB THICKENING REQUIRED



PrimeCad v4.6.6.322



Site Address :
G & L PHILIP
184 HORTON ROAD
BEULAH ESTATE
TASMAN

Sheet Title :
AS BUILT
Slab Thickening

Date : 6 Sep.2016
Scale : 1: 100
Drawn : Craig Ranson
System : MiTek 20/20

Job Details:
Roof Pitch : 20.000 Deg
Roof Material : Metal Tiles
Ceiling Material : Gib Board 12mm
Wind Zone : Very High
Roof Snow Load : 0.400 kPa

Truss Centres : 900 mm
Roof Live Load : 0.250kPa
Floor Live Load : kPa
Wind Speed : 50.0 m/s



Job Title :
16-170G
Sheet :
2
Revision Number :

Lintel Details

NOTES:

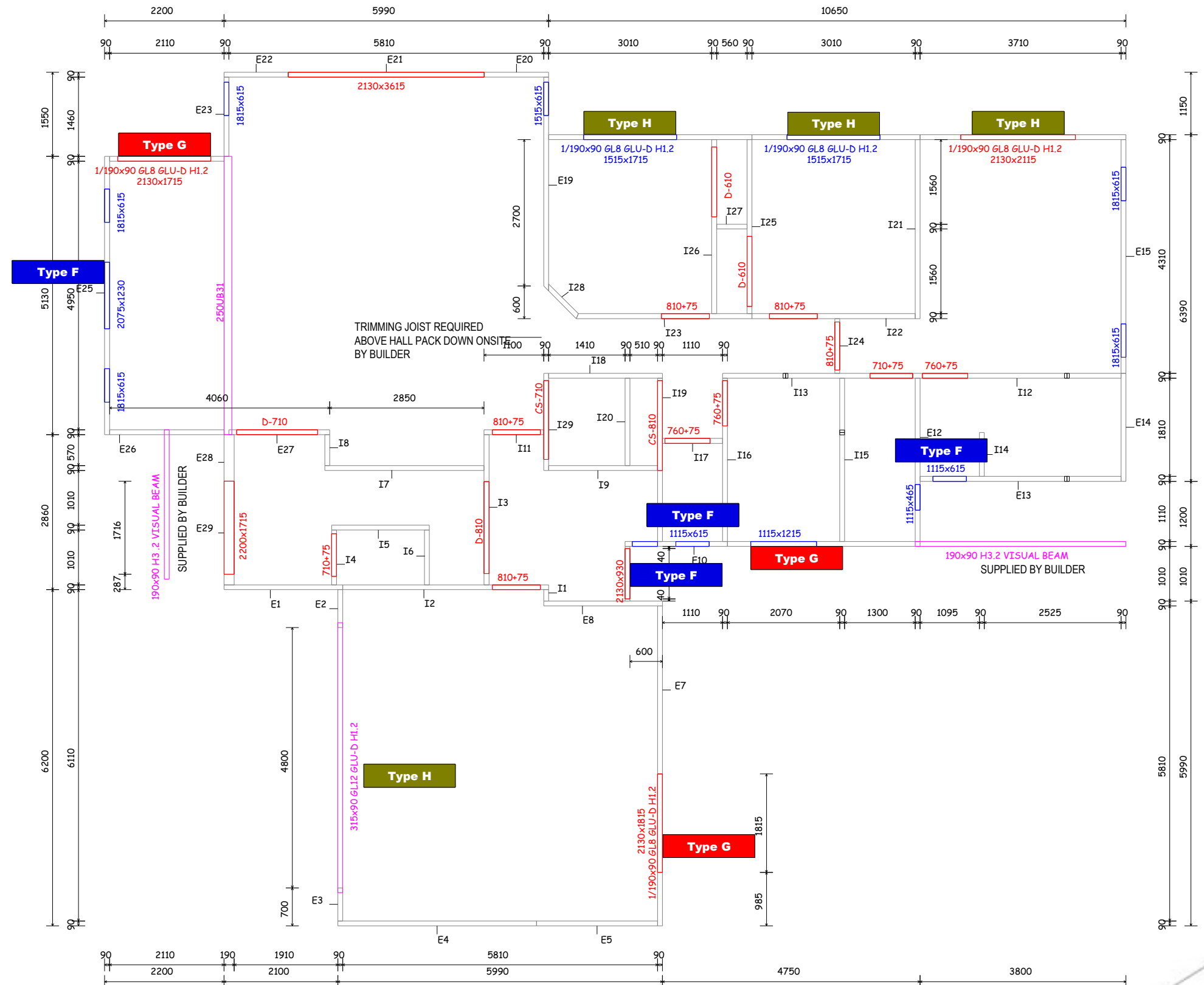
Any lintels supporting trusses with imposed loads outside the scope of NZS3604:2011 have been specifically designed and nominated.

Timber lintels have been selected from the
GANGLAM 05/2005 Lintels, Beams, Joists &
Rafters selection manual.

FLITCH beams have been selected from the GANG-NAIL FLITCH BEAM Lintels & Beams 12/2007 selection manual.

No bearing reactions from trusses on internal walls from concentrated load (CL) or uniform distributed load (UDL) on concrete slab exceed 10kN. Standard 100mm slab required.

Prowood lintels are selected from the PRO-LAM User guide selection manual 3/2007 or Waimea SawmillersLtd Timber Beam Span Tables using only GL8 graded products.



PrimeCad v4.6.6.322

FRAME & TRUSS



Site Address :
G & L PHILIP
184 HORTON ROAD
BEULAH ESTATE
TASMAN

Sheet Title :
AS BUILT
Lintel Sizes

Date : 6 Sep,2016	Drawn : Craig Ranson
Scale : 1:100	System : MiTek 20/20

Job Details:	
Roof Pitch	: 20.000 Deg
Roof Material	: Metal Tiles
Ceiling Material	: Gib Board 12mm
Wind Zone	: Very High
Roof Snow Load	: 0.400 kPa

Truss Centres : 900 mm
Roof Live Load : 0.250kPa
Floor Live Load : kPa
Wind Speed : 50.0 m/s



Job Title :
16-170G
Sheet :
3
Revision Number :

Stud to top plate
fixing details

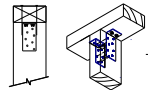
All fixings are to be Type B

FIXING TYPE B
4.7kN

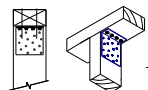
2 x 90mm x 3.15 dia. plain steel wire nails driven
vertically into stud.

Plus 2x LUMBERLOK
CPC40

AND



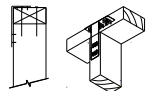
OR



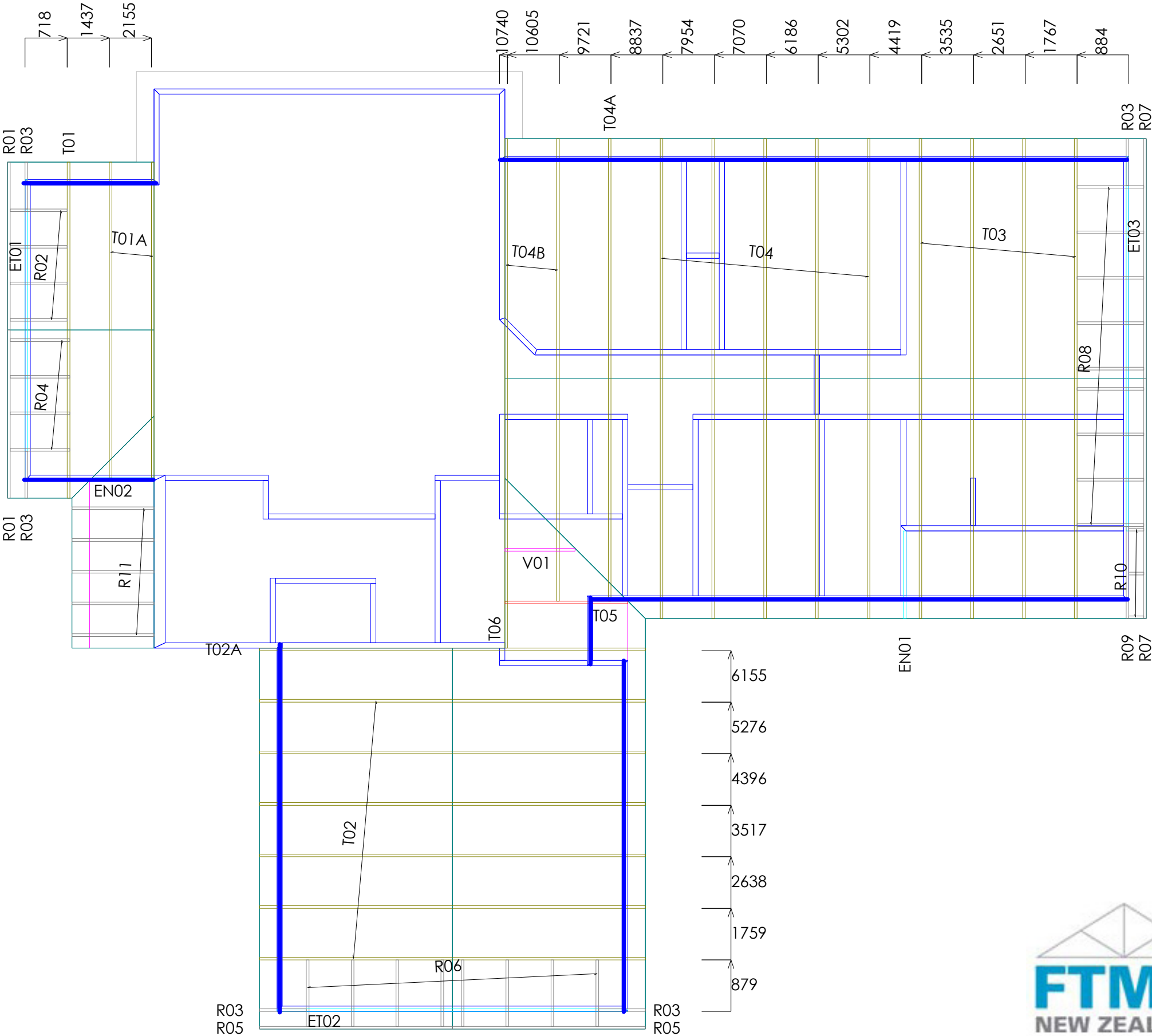
Recommended for
internal wall options to
avoid lining issues.

Plus LUMBERLOK
6 kN Stud Anchor
(CPC80)

OR



Plus LUMBERLOK
Stud Strap
(One face only)



NOTES:
Refer to:
LUMBERLOK Wall Fixing Chart - Stud to Top Plate
Fixing Schedule 09/2011

(Alternative to NZS3604:2011 Table 8.18)



PrimeCad v4.6.6.322



Site Address :
G & L PHILIP
184 HORTON ROAD
BEULAH ESTATE
TASMAN

Sheet Title :
AS BUILT
Stud To Top Plate Fixing

Date : 6 Sep.2016 Drawn : Craig Ranson
Scale : 1: 100 System : MiTek 20/20

Job Details:
Roof Pitch : 20.000 Deg
Roof Material : Metal Tiles
Ceiling Material : Gib Board 12mm
Wind Zone : Very High
Roof Snow Load : 0.400 kPa

Truss Centres : 900 mm
Roof Live Load : 0.250kPa
Floor Live Load : kPa
Wind Speed : 50.0 m/s



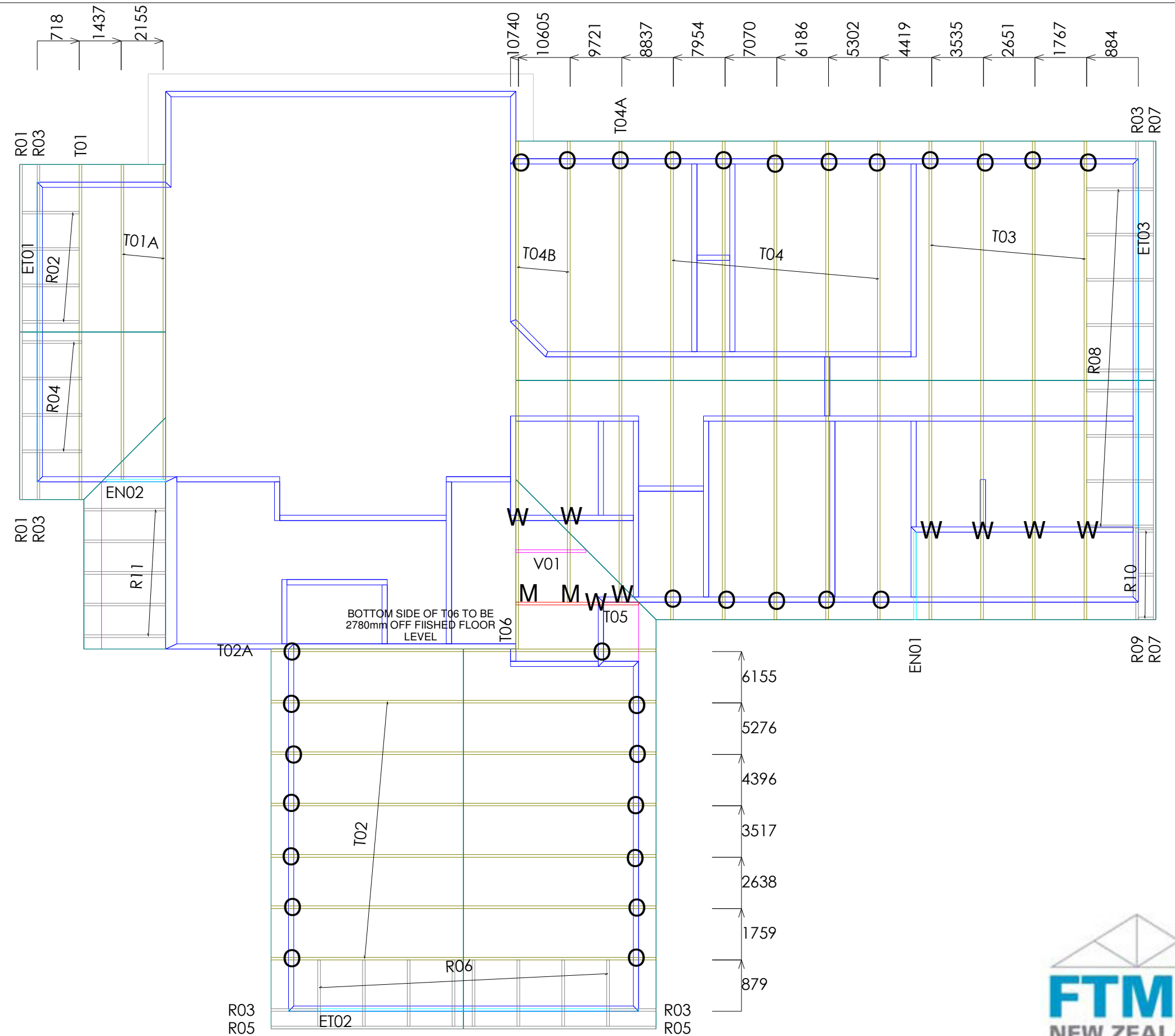
Job Title :
16-170G
Sheet :
4
Revision Number :

	X - LUMBERLOK JH47x90 Joist Hanger
	Z - LUMBERLOK JH47x120 Joist Hanger
	P - LUMBERLOK JH47x190 Joist Hanger
	E - LUMBERLOK JH95x165 Joist Hanger
	O - Pair of LUMBERLOK CT200 Ceiling Ties
	H - LUMBERLOK CT400 Cyclone Tie
	B - LUMBERLOK CT600 Cyclone Tie
	M - Pair of LUMBERLOK Multi Grips
	NP - LUMBERLOK Nailon Plate
	N - LUMBERLOK N21 Diagonal Cleat
	W - Pair of LUMBERLOK CPC40 Cleats
	K - LUMBERLOK TTP 16kN Truss to Top Plate set

All truss to top plate fixings not labelled require a minimum of a pair of LUMBERLOK Wire Dogs.
All other areas must have a minimum of a pair of 90mm skew nails.

Fix all stringers with a pair of LUMBERLOK Multi Grips at every stud.

Refer to:
LUMBERLOK Timber Connectors Characteristic
Loadings Data brochure 03/04





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Fax: 03 348 0314

www.mitek.nz.co.nz

MiTek 20/20 Engineering 4.6.6.322

Printed: 08:25:42 26 Sep 2016

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

ISSUED BY: **MiTek New Zealand Limited**
TO: **Building ConneXion Ltd t/a ITM Building Centres**
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 **16-170T** 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: Monday, 26 September 2016

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

Job: 16-170T	Client: O B G	Site: G & L PHILIP 184 HORTON ROAD BEULAH ESTATE TASMAN
Description: Building Consent No.: MiTek 20/20 Engineering 4.6.6.322	Phone:	Phone:

MiTek New Zealand Limited.

Printed: 08/25/26 Sep 2016

MITEK FABRICATOR DESIGN STATEMENT

This statement is issued by MiTek accredited fabricator **Building ConneXion Ltd t/a ITM Building Centres**, 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:	DDP SG8 H1.2	Pitch:	Nominal Overhang:	300 mm
Roof		Ceiling	Wind	
Material:	Metal Tiles	Material:	Area:	Very High (50.0 m/s)
Dead Load:	0.210 kPa	Dead Load:	Pressure Coeff:	Cpe = varies; Cpi = -0.30, 0.20
Restraints:	400 mm centres	Restraints:	Snow	
Live Load:	Qur = 0.250 kPa	Live Load:	Location:	Nelson (N3) at 220 m
	Qc = 1.100 kN		Open Ground Load:	0.300 kPa
			Basic Roof Load:	0.400 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, ✕ = 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)
*R02A	8	255	0.000	620
*R02	4	255	0.000	620
*R01	2	3295	30.000	900
CT01A	1	5710	30.000	748
CT01	2	5710	30.000	748

Total quantity : 17

The computer design input has been carried out by:

Signed: 

Date: Monday, 26 September 2016

Name of Detailer: Craig Ranson

Qualifications and Title: Detailer

On behalf of: Building ConneXion Ltd t/a ITM Building Centres



CT01A

CT01A
R01

CT01

R02

R02A

R02

R02A

R02A

R01

VOID IF ITM FRAME AND TRUSS ARE NOT FABRICATED

FRAME & TRUSS



Site Address :
G & L PHILIP
184 HORTON ROAD
BEULAH ESTATE TASMANIA

Sheet Title :
AS BUILT
As Built Truss Layout

Date : 25 Sep,2016
Scale : 1: 100
Drawn : Craig Ranson
System : MiTek 20/20

Job Details:
Roof Pitch : 30.000 Deg
Roof Material : Metal Tiles
Ceiling Material : Gib Board 12mm
Wind Zone : Very High
Roof Snow Load : 0.400 kPa

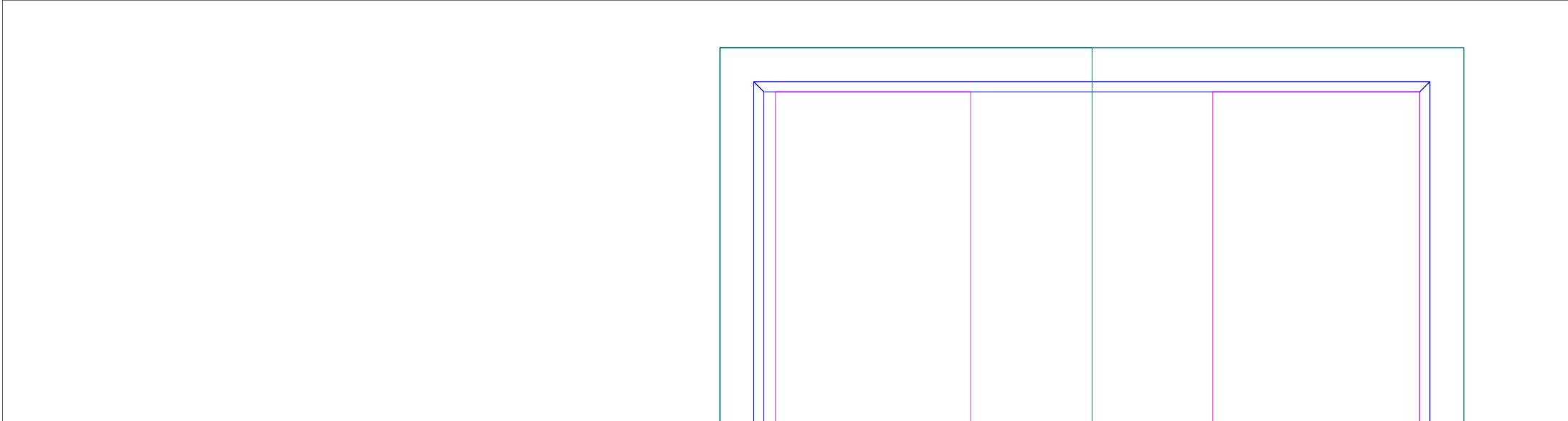
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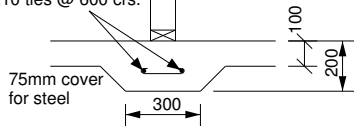
CATORS



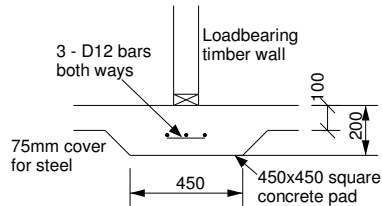
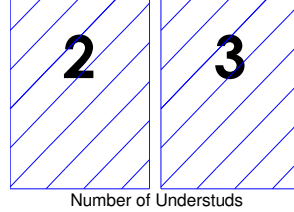
PrimeCad v4.6.6.244

Truss Centres : 900 mm Roof Live Load : 0.250kPa Floor Live Load : kPa Wind Speed : 50.0 m/s		Job Title :
		16-170T
		Sheet :
		1
		Revision Number :

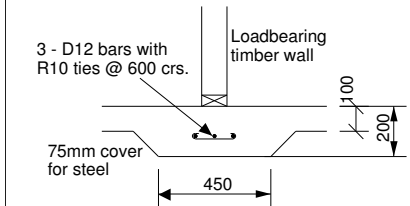
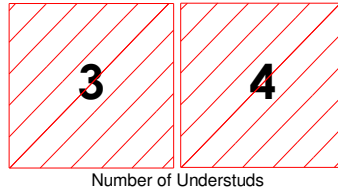




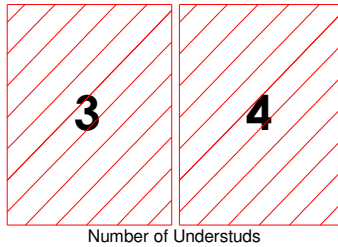
TYPE FS1 - 300mm Strip footing



TYPE FP2 - 450x450mm Pad



TYPE FS2 - 450mm Strip footing

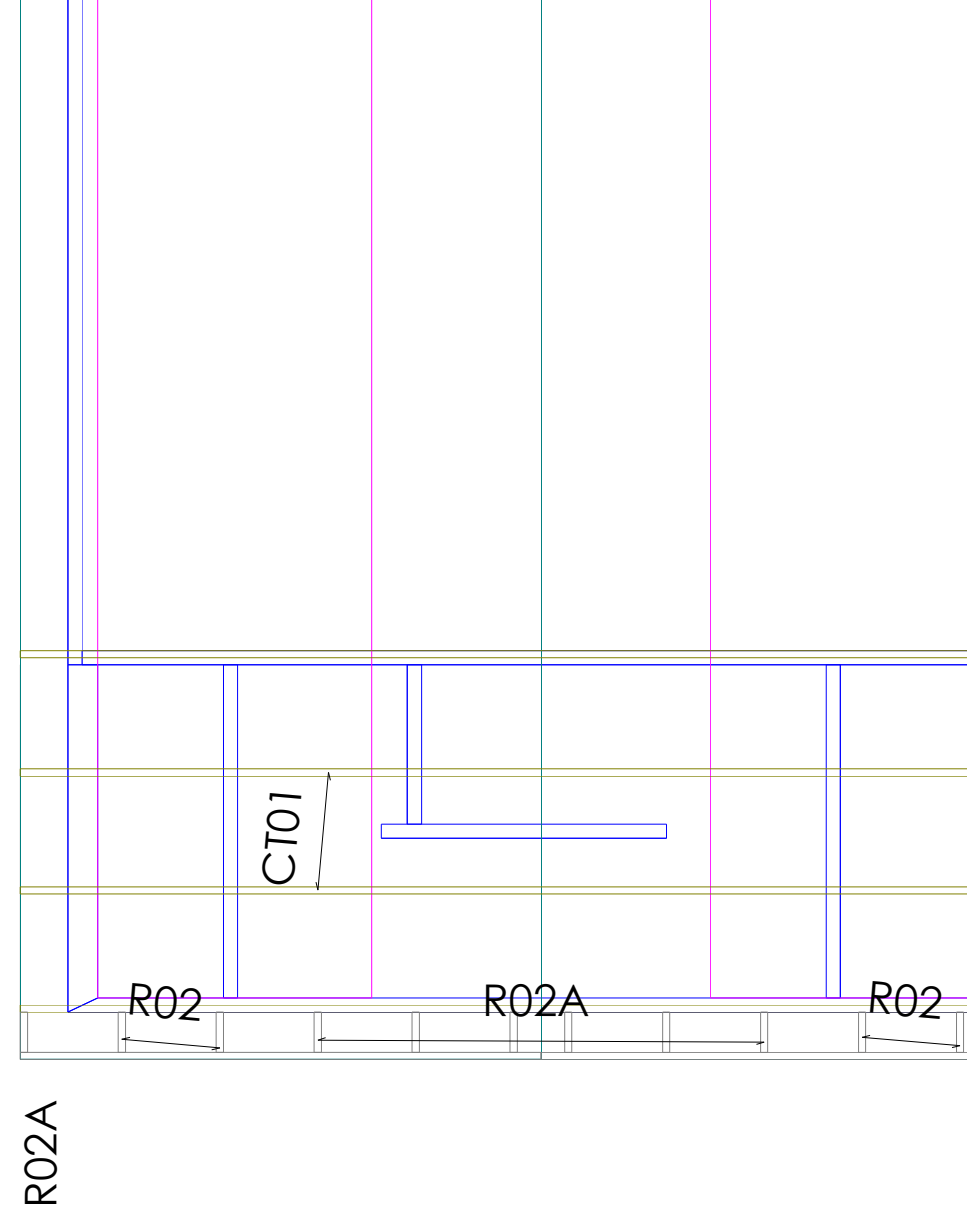


NOTES:

The numbers found within the hatched area is the number of studs required below each truss. Refer to:
GANG-NAIL Internal Load Bearing on Concrete Floor Slabs brochure 12/2006

CT01A

CT01A
R01



NO SLAB THICKENING REQUIRED

FRAME & TRUSS

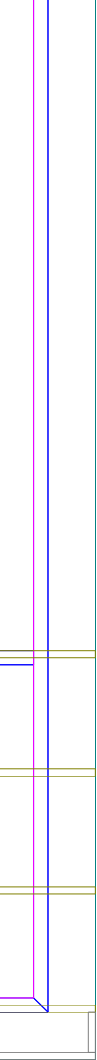


Site Address :
G & L PHILIP
184 HORTON ROAD
BEULAH ESTATE TASMAN

Sheet Title :
AS BUILT
Slab Thickening

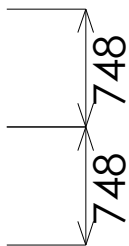
Date : 25 Sep,2016
Scale : 1: 100
Drawn : Craig Ranson
System : MiTek 20/20

Job Details:
Roof Pitch : 30.000 Deg
Roof Material : Metal Tiles
Ceiling Material : Gib Board 12mm
Wind Zone : Very High
Roof Snow Load : 0.400 kPa



R02A

R01



PrimeCad v4.6.6.244

Truss Centres : 900 mm
Roof Live Load : 0.250kPa
Floor Live Load : kPa
Wind Speed : 50.0 m/s



Job Title :

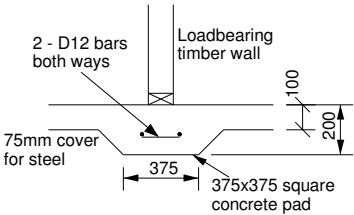
16-170T

Sheet :

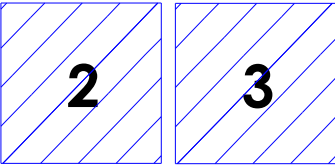
2

Revision Number :

Slab Thickening Details



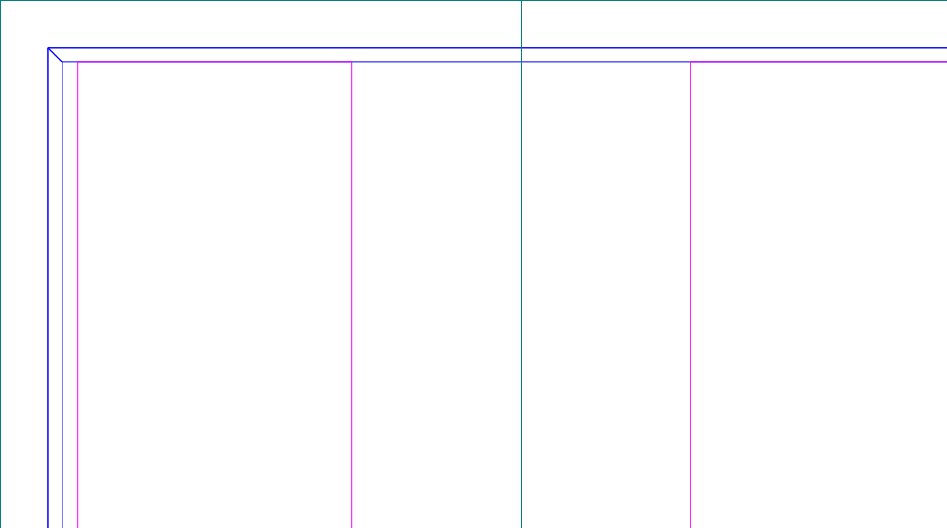
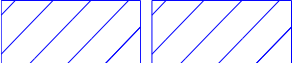
TYPE FP1 - 375x375mm Pad

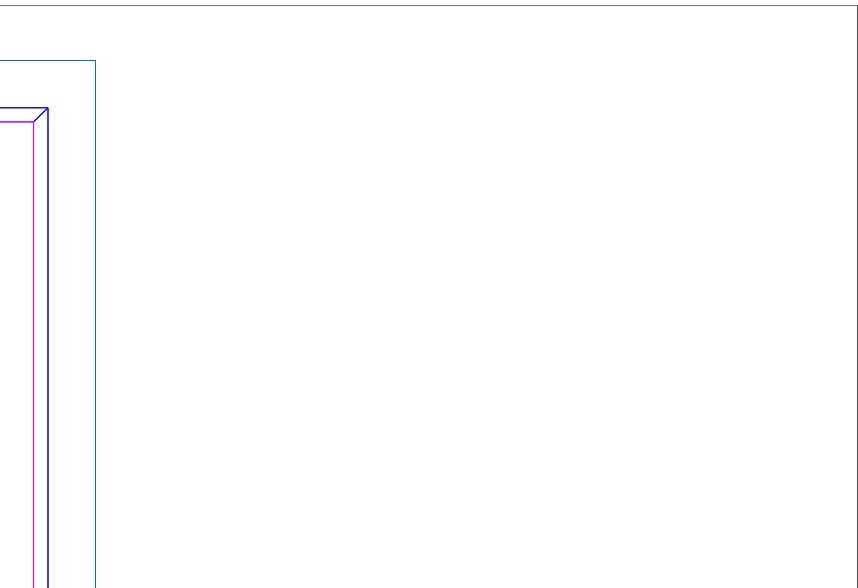


Number of Understuds

2 - D12 bars with
B10 ties @ 600 c/c

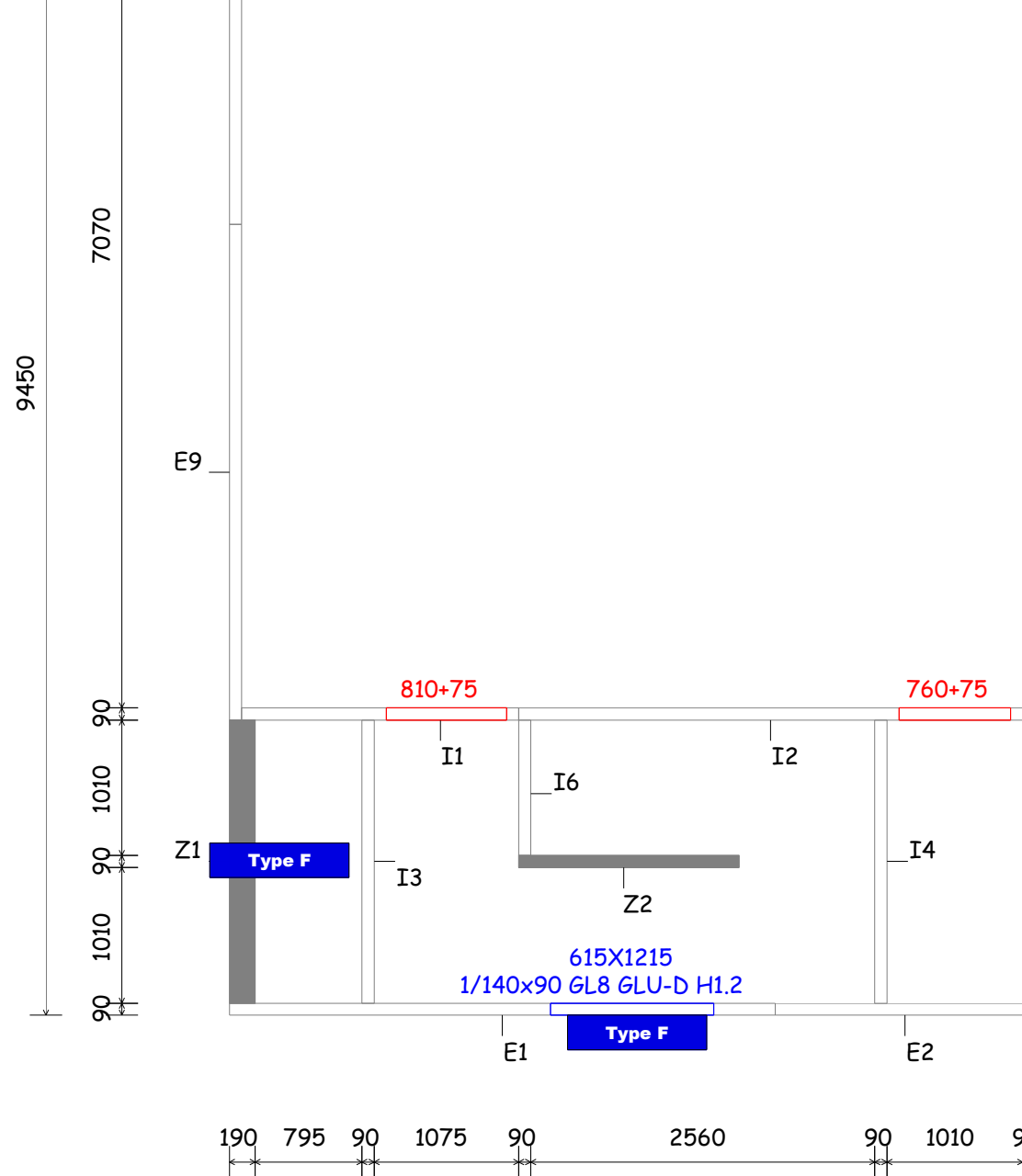
Loadbearing
timber wall





walls from concentrated load (CL) or uniform distributed load (UDL) on concrete slab exceed 10kN. Standard 100mm slab required.

Prowood lintels are selected from the PRO-LAM User guide selection manual 3/2007 or Waimea SawmillersLtd Timber Beam Span Tables using only GL8 graded products.



FRAME & TRUSS



Site Address :
G & L PHILIP
184 HORTON ROAD
BEULAH ESTATE TASMAN

Sheet Title :
AS BUILT
Lintel Sizes

Date : 25 Sep,2016
Scale : 1: 100
Drawn : Craig Ranson
System : MiTek 20/20

Job Details:
Roof Pitch : 30.000 Deg
Roof Material : Metal Tiles
Ceiling Material : Gib Board 12mm
Wind Zone : Very High
Roof Snow Load : 0.400 kPa



16-170T

3

Lintel Details

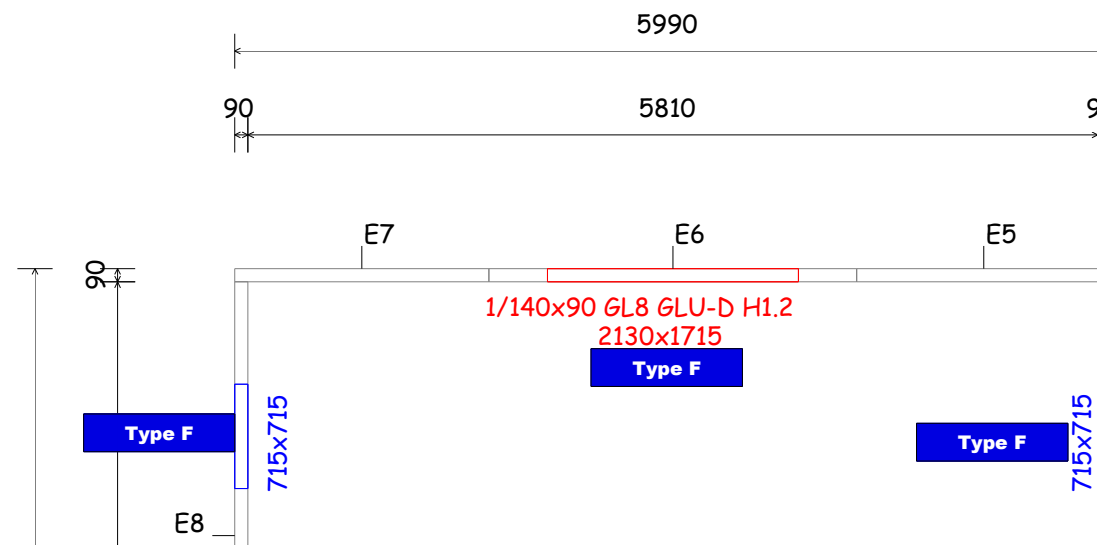
NOTES:

Any lintels supporting trusses with imposed loads outside the scope of NZS3604:2011 have been specifically designed and nominated.

Timber lintels have been selected from the GANGLAM 05/2005 Lintels, Beams, Joists & Rafter selection manual.

FLITCH beams have been selected from the GANG-NAIL FLITCH BEAM Lintels & Beams 12/2007 selection manual.

No bearing reactions from trusses on internal



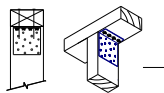
00

90



Plus LUMBERLOK
6 kN Stud Anchor
(CPC80)

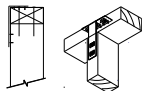
OR



Recommended for
internal wall options to
avoid lining issues.

Plus LUMBERLOK
Stud Strap
(One face only)

OR



NOTES:

Refer to:
LUMBERLOK Wall Fixing Chart - Stud to Top Plate
Fixing Schedule 09/2011

(Alternative to NZS3604:2011 Table 8.18)

CT01A

CT01A
R01

R02A

R02

R02A

R02

CT01

FRAME & TRUSS



Site Address :
G & L PHILIP
184 HORTON ROAD
BEULAH ESTATE TASMAN

Sheet Title :
AS BUILT
Stud To Top Plate Fixing

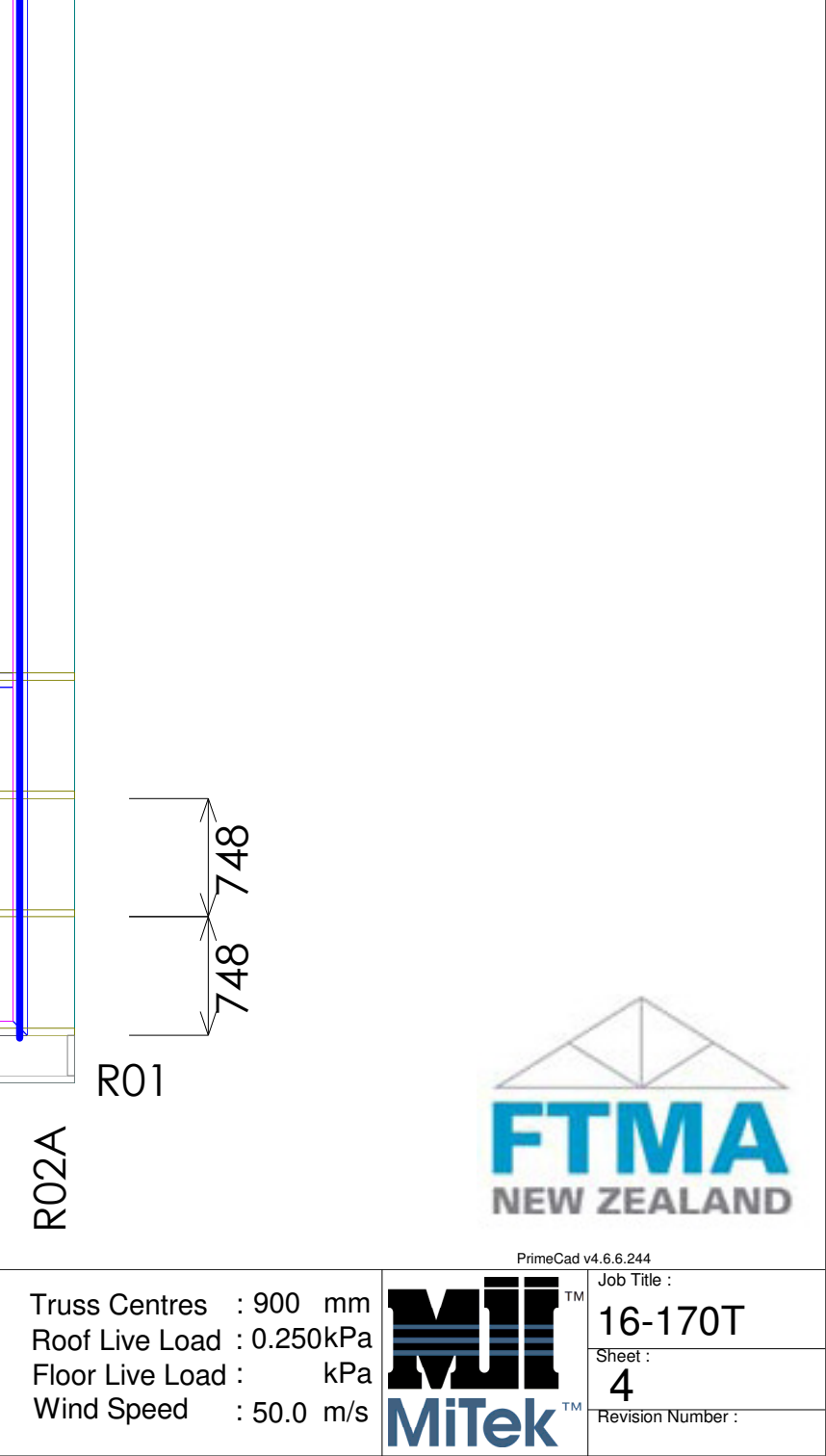
Date : 25 Sep,2016

Drawn : Craig Ranson

Scale : 1: 100

System : MiTek 20/20

Job Details:
Roof Pitch : 30.000 Deg
Roof Material : Metal Tiles
Ceiling Material : Gib Board 12mm
Wind Zone : Very High
Roof Snow Load : 0.400 kPa



16-170T

4

Stud to top plate fixing details

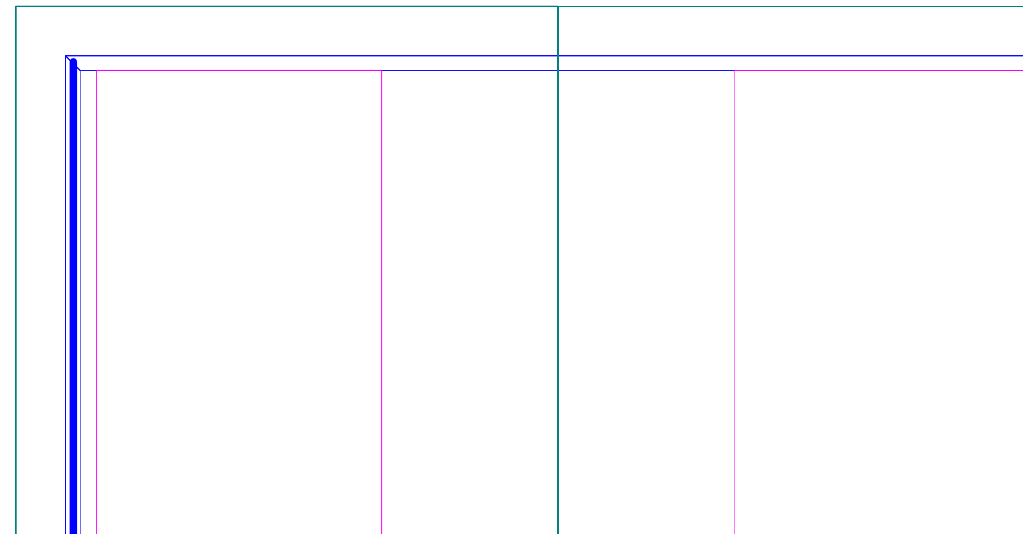
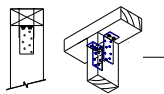
All fixings are to be Type B

FIXING TYPE B
4.7kN

2 x 90mm x 3.15 dia. plain steel wire nails driven
vertically into stud.

AND

Plus 2x LUMBERLOK
CPC40





W - Pair of LUMBERLOK CPC40 Cleats
K - LUMBERLOK TTP 16kN Truss to Top Plate set

NOTES:

All truss to top plate fixings not labelled require a minimum of a pair of LUMBERLOK Wire Dogs.
All other areas must have a minimum of a pair of 90mm skew nails.

Fix all outriggers to gable trusses with a pair of LUMBERLOK Wire Dogs

Fix all stringers with a pair of LUMBERLOK Multi Grips at every stud.

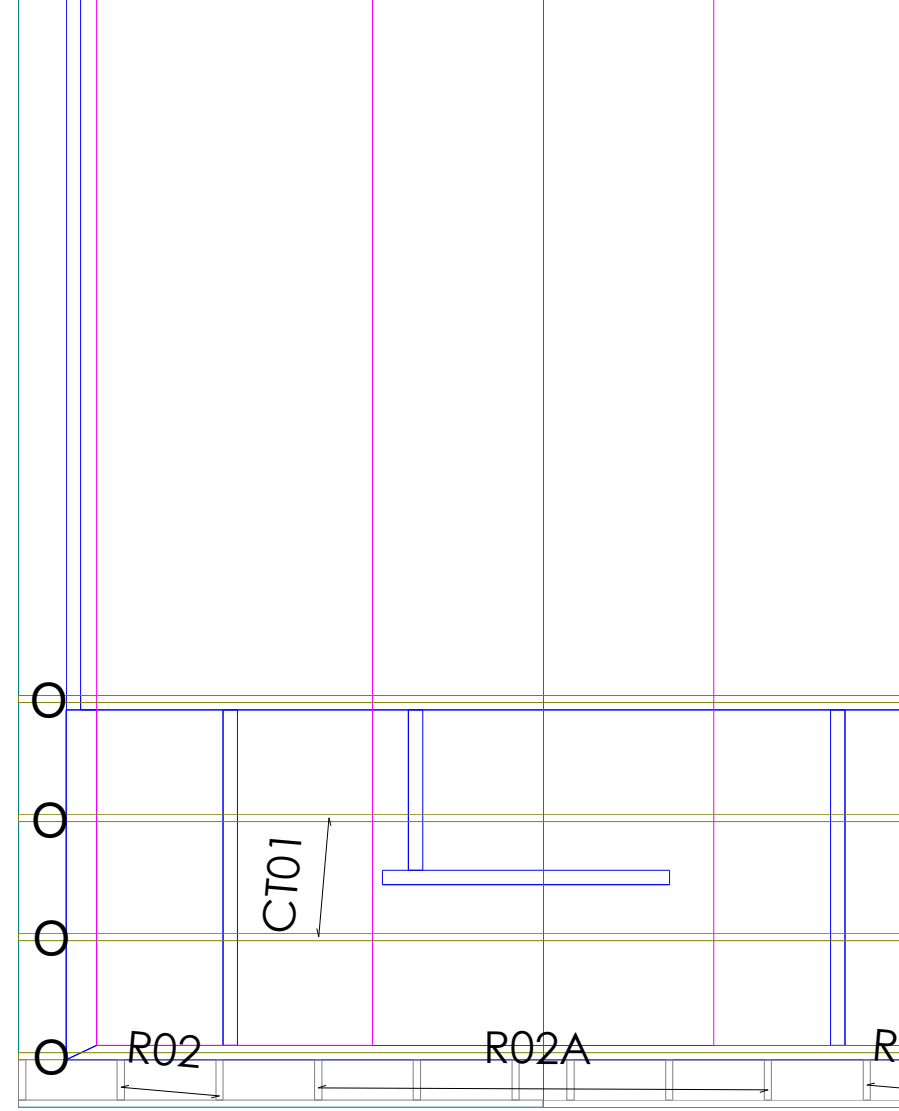
Fix planted overhang rafters to top chord of truss with a pair of 90mm nails at 300mm centres.

Refer to:
LUMBERLOK Timber Connectors Characteristic Loadings Data brochure 03/04

CT01A

CT01A
R01

R02A



FRAME & TRUSS



Site Address :
G & L PHILIP
184 HORTON ROAD
BEULAH ESTATE TASMAN

Sheet Title :
AS BUILT
Truss Fixings

Date : 25 Sep,2016

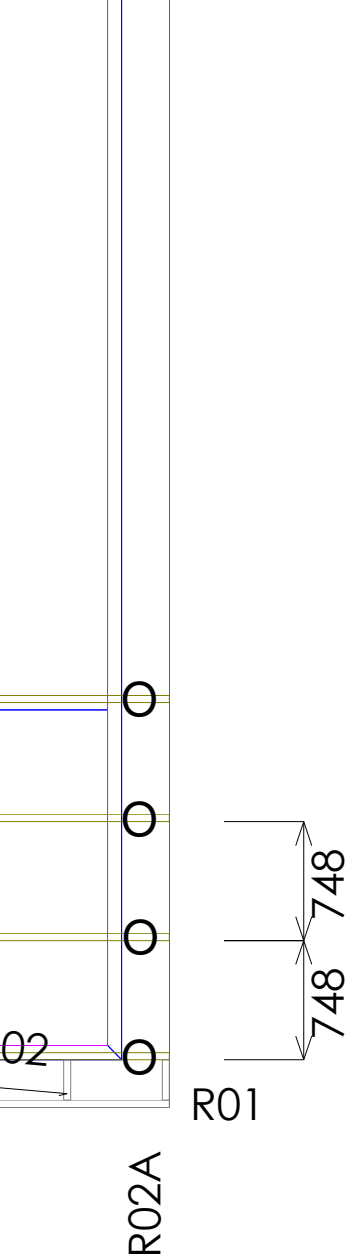
Drawn : Craig Ranson

Scale : 1: 100

System : MiTek 20/20

Job Details:

Roof Pitch : 30.000 Deg
Roof Material : Metal Tiles
Ceiling Material : Gib Board 12mm
Wind Zone : Very High
Roof Snow Load : 0.400 kPa



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Truss Centres : 900 mm Roof Live Load : 0.250kPa Floor Live Load : kPa Wind Speed : 50.0 m/s		Job Title : 16-170T
		Sheet : 5
		Revision Number :

Truss Fixings



X - LUMBERLOK JH47x90 Joist Hanger



Z - LUMBERLOK JH47x120 Joist Hanger



P - LUMBERLOK JH47x190 Joist Hanger



E - LUMBERLOK JH95x165 Joist Hanger



O - Pair of LUMBERLOK CT200 Ceiling Ties



H - LUMBERLOK CT400 Cyclone Tie



B - LUMBERLOK CT600 Cyclone Tie



M - Pair of LUMBERLOK Multi Grips



NP - LUMBERLOK Nailon Plate



N - LUMBERLOK N21 Diagonal Cleat



O - Pair of LUMBERLOK CT200 Ceiling Ties

