

Engineering Note Page (ENP-2)

REVISION 2009-10-09

Please read all notes prior to installation of the component

DESIGN INFORMATION

This building component is certified as an individual component for the loads and conditions shown on the calculation and drawing page.

The responsibility of the undersigned engineer is only limited to the calculation of this building component for the loads and conditions shown on this drawing.

The responsibility of the undersigned is limited to the verification of the structural capacity of the NASCOR floor joists and LVL beams based on placement as shown on the layout. The loads applied are limited to the gravity effects of the specified loads. The structural integrity of the building and the effect of wind, uplift, seismic, lateral or other forces, calculation of adequate support and anchorage of components, as well as the dimensions and design loads used to calculate components are the responsibility of the overall building designer.

Floor joists and OSB rim board are designed to carry uniformly distributed loads only. Point loads should be transferred through the floor cavity with squash blocks. Structural elements such as walls, posts, connectors, and squash blocks are the responsibility of the overall building designer.

The undersigned engineer disclaims any responsibility for damages as a result of being furnished faulty or incorrect information, specifications and/or designs.

Installation of NASCOR joists is to be carried out in accordance with the current edition of the manufacturer's approved literature available at <http://www.nascor.ca>.

CODE

This building component is designed in accordance with the National Building Code of Canada, the Ontario Building Code, CCMC and Canadian Standards Association guidelines.

COMPONENT

1. The building component used in construction must be the same as indicated on the drawings.
2. The building component must be installed and assembled as per specification shown on the drawing and in accordance with the manufacturer's assembly and installation.
3. Members consisting of multiple plies must be connected as per the document "Multi-ply Connection Details".
4. Pass-thru squash block framing is required at all point loads over bearings.

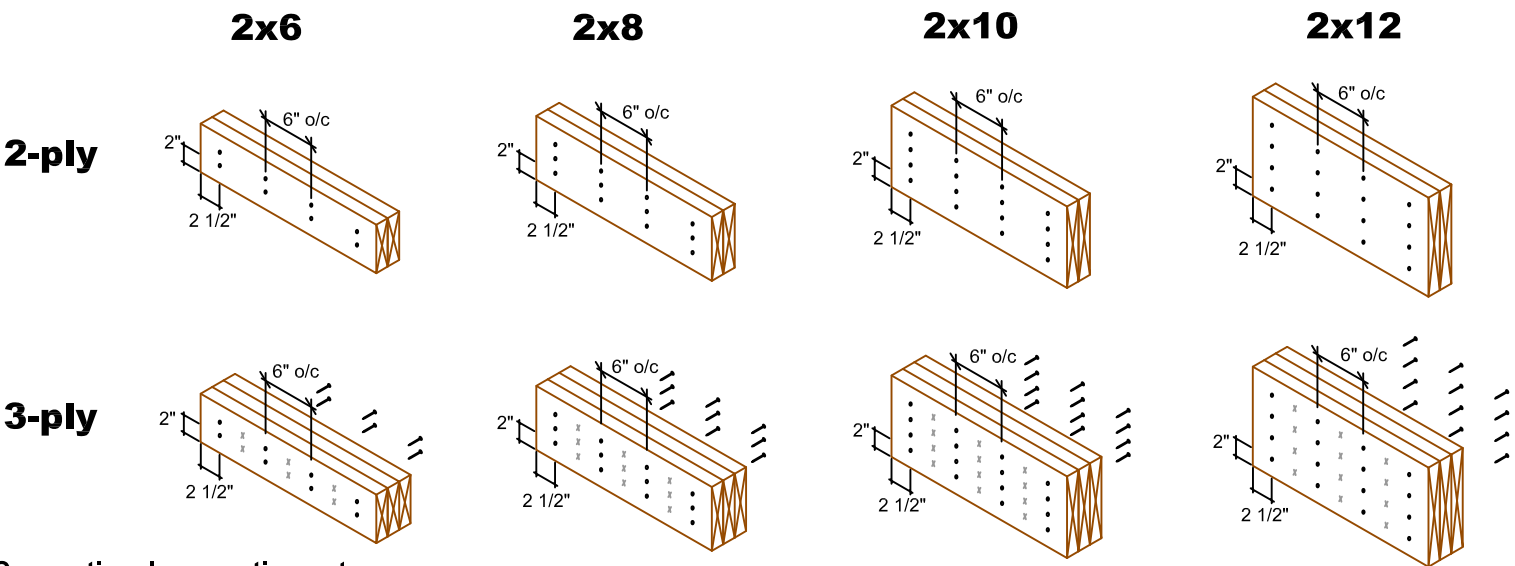
HANDLING AND INSTALLATION

Do not drill any hole, cut or notch a certified building component without a written pre-authorization.

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MULTIPLE MEMBER CONNECTIONS

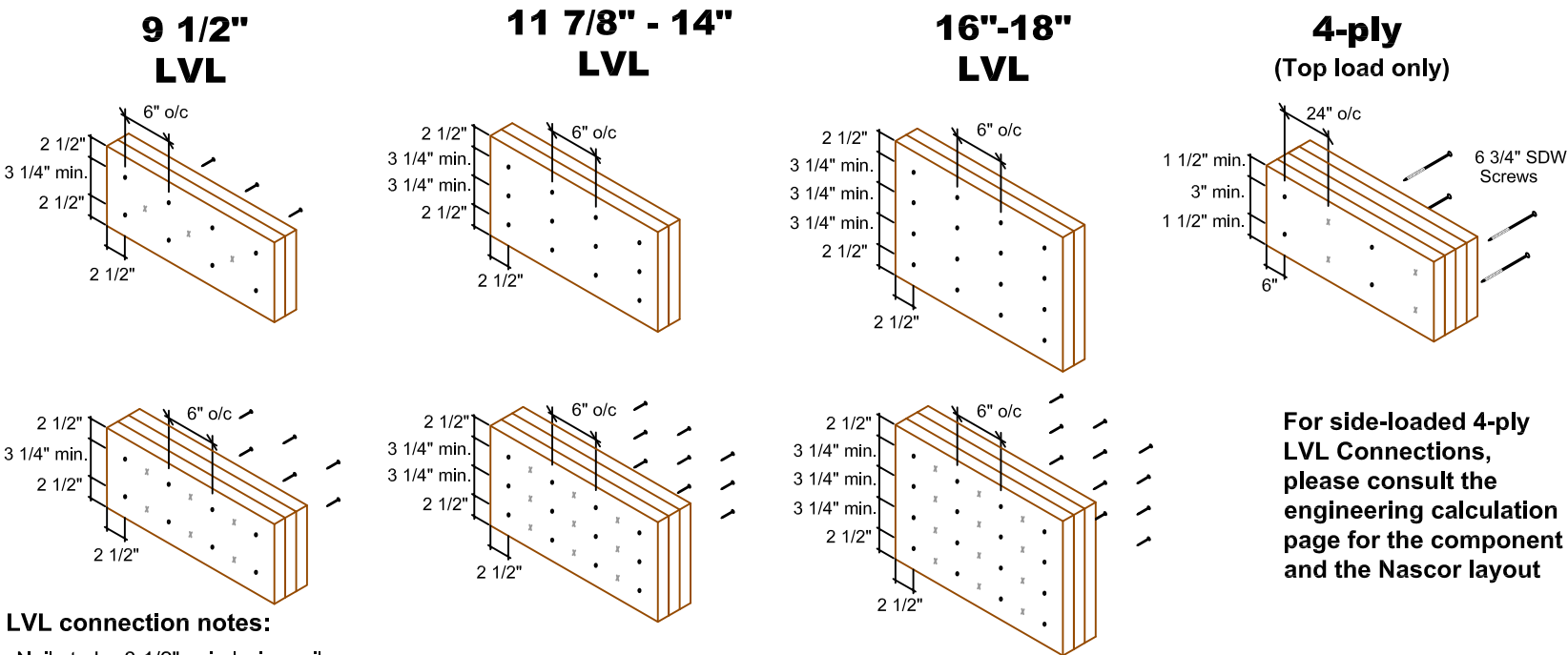
Conventional Connections (for uniform distributed loads)



Conventional connection notes:

- Nails to be 3" 10d spiral wire nails.
- Nails to be located a minimum of 2" from the top and bottom of the member. Start all nails a minimum of 2 1/2" in from ends.
- Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nail driven from the opposite side.

LVL Connections (for uniform distributed loads)

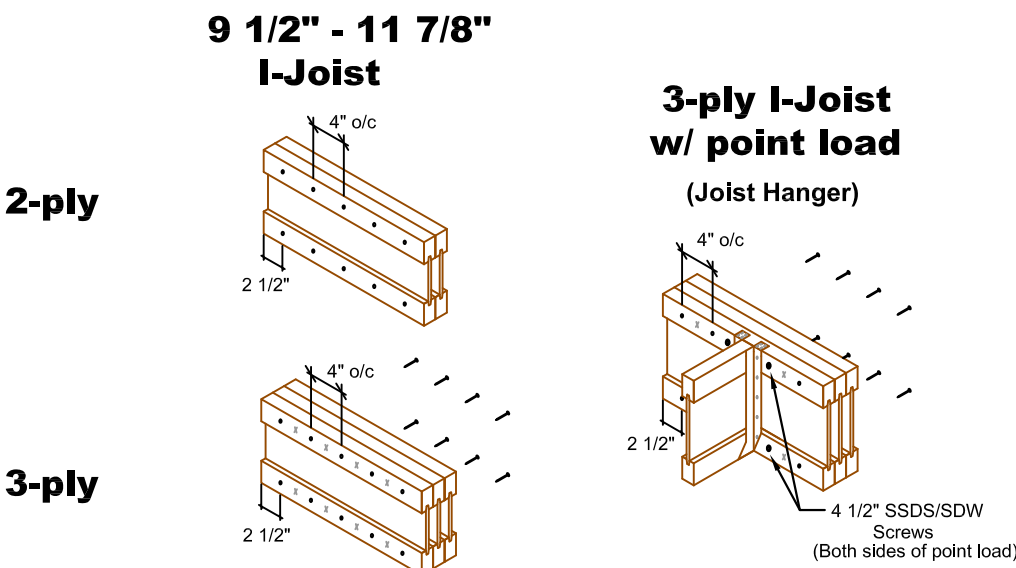


LVL connection notes:

- Nails to be 3 1/2" spiral wire nails.
- Nails to be located a minimum of 2 1/2" from the top and bottom of the member. Start all nails a minimum of 2 1/2" in from ends.
- Minimum 3 1/4" spacing between rows.
- Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nail or screw driven from the opposite side.

For side-loaded 4-ply LVL Connections, please consult the engineering calculation page for the component and the Nascor layout

Vertical I-Joist Connections (for uniform distributed loads)



Vertical I-Joist connection notes:

- Nails to be 3" spiral wire nails.
- Nails to be located at centre of top and bottom flanges. Start all nails a minimum of 2 1/2" in from ends.
- Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nail driven from the opposite side.

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MULTI -PLY
CONNECTION
DETAILS

Date: November 30, 2016

Scale: NTS

KOTT
3228 Moodie Drive
Ottawa, ON
K2H 7V1
Ph: 613-838-2775
Fx: 613-838-4751

----- Floor Framing Material -----			
Type	Qty.	Product	Length
J1	1	NJH12	14' 0"
J2	3	NJH12	10' 0"
J3	1	NJH12	6' 0"
J4	1	NJH12	2' 0"
J5	11	NJ40U12	20' 0"
J6	20	NJ40U12	18' 0"
J7	13	NJ60H12	18' 0"
G1	2	1 3/4x11 7/8 West Fraser 2.0E-	20' 0"
G2	2	NJ12	4' 0"
G3	2	NJ12	4' 0"
G4	1	1 3/4x11 7/8 West Fraser 2.0E-	6' 0"
G5	2	NJ12	2' 0"
G6	2	NJ12	2' 0"
G7	2	NJ12	20' 0"
G8	2	NJ12	20' 0"
G9	2	NJ12	20' 0"
G10	2	NJ12	20' 0"
G11	2	NJ12	20' 0"
G12	2	1 3/4x11 7/8 West Fraser 2.0E-	20' 0"
R1	11	11 7/8" RIMBOARD	12' 0"

----- Miscellaneous Materials -----			
Type	Qty.	Product	Length
XXX	1	NJH12	4' 0"

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DESIGN ASSUMPTIONS
=====

Loads:(un-factored)
T/C Live: 40 psf B/C Live: 0 psf
T/C Dead: 15 psf B/C Dead: 0 psf
Load Case: Live
Deflection Criteria:
L/480 Live L/360 Total
Building Code: OBC-2012 (Limit States Design)
Building Type: Residential
Importance Category: Normal (Part 9)
Design assumes top edge continuously braced,
and bottom edge unbraced.
Joist Design Includes CCMC Vibration Check
Subfloor: 3/4" OSB Glued and Nailed
Ceiling: (None)
Blocking: (As Shown)

All Loads are UN-FACTORED Loads

NOTES:

1. Framers to verify dimensions on the architectural drawings.
2. Double joist only require filler/backer ply when supporting another member using a face-mounted hanger.
3. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls.
4. Install single-ply flush window header along inside face of rimboard/rimjoist.
5. Refer to Nascor specifier guide for installation details.
6. Squash blocks recommended to be installed at end bearing on all first level joists which support loading from above exceeding two levels floor or roof.
7. Load transfer blocks to be installed under all point loads.
8. It shall be the framer's responsibility that floor joists and beams are fastened as per the hanger manufacturer's standards.

HATCH AREA INDICATED REPRESENTS
CERAMIC TILED FLOOR WITH AN
ADDITIONAL DEAD LOAD OF 5.00 PSF

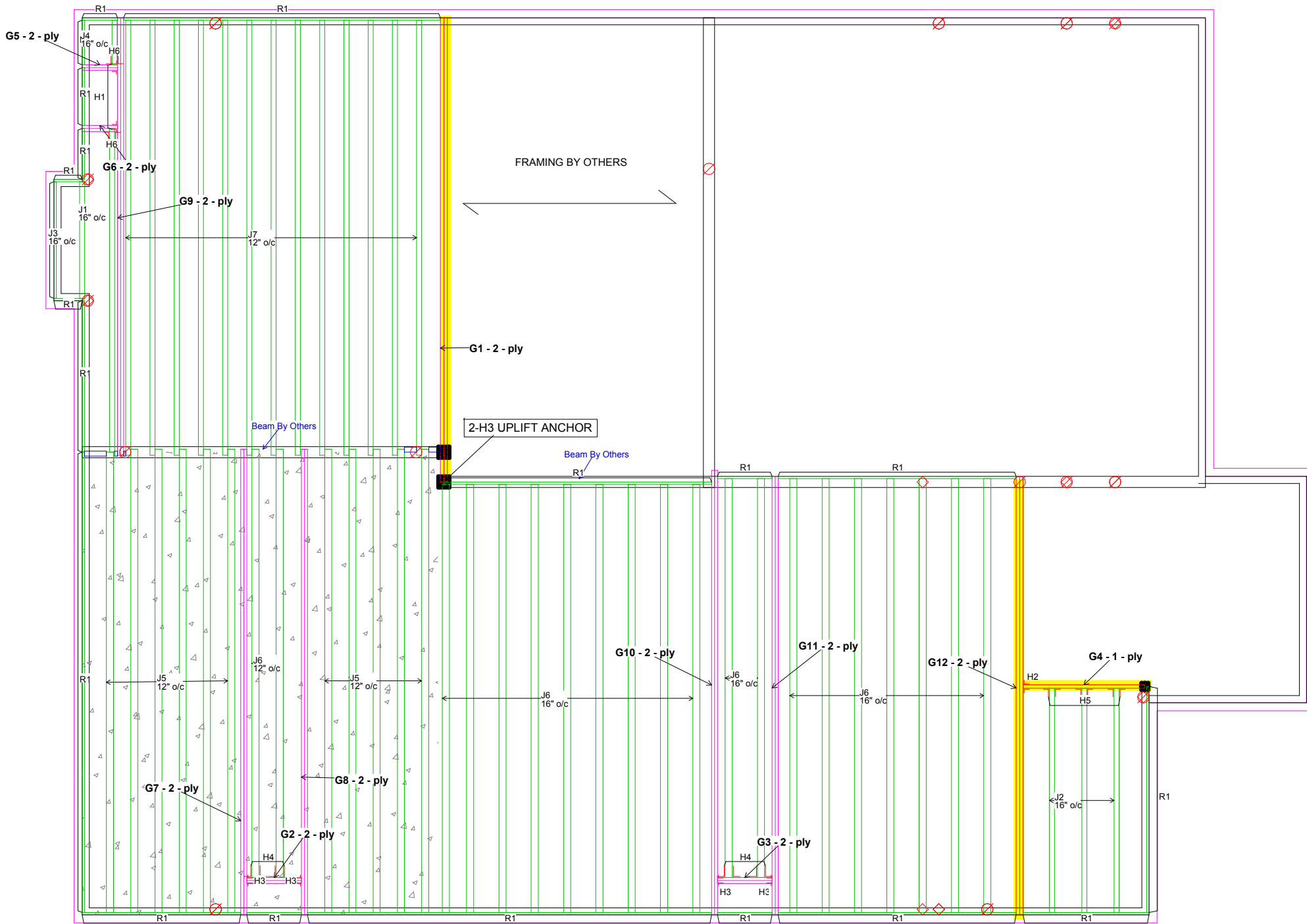
----- Connector List -----

ID#	Qty	Model Number
H1	2	LT151188
H2	1	HUS1.81/10
H3	4	LT2-151188
H4	4	LT351188
H5	3	LT251188
H6	2	LT2-151188
H3	2	UPLIFT ANCHOR

Refer to Multiple Member Connection
Detail to ply to ply nailing or bolting
requirements.

PASS-THRU FRAMING SQUASH BLOCK
IS REQUIRED AT ALL POINT LOADS
OVER BEARINGS.

Rim parallel to joists: 1-1/8" rimboard with
2"x4" block (1/16" longer than rim depth) @ 16" o/c.
All other components and structural elements supporting
the floor system such as beams, walls, columns and
foundation walls and footings including anchorage of
components and bracing for lateral stability are the
responsibility of others.





TOWN OF MILTON

PLANNING AND DEVELOPMENT

JUNIPER 6 MODEL

BUILDING: REVIEWED

SCOTT SHERRIFFS

PLANS EXAMINER

APR 11, 2017

DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

FIRST FLOOR FRAMING

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Nascor by KOTT
14 Anderson Blvd.
Uxbridge, ON.
www.nascor.ca

Project Tag:

JUNIPER 6 EL -1 -2-3

GREEN PARK HOMES
LECCO RIDGE
MILTON, ON

SALESMAN: RM

Time: 03:18 PM
DATE: 10/27/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

CS Beam 2016.7.0.11
kmBeamEngine 2016.7.0.2
Materials Database 1555**Member Data****Description: G1**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 11.8 PLF

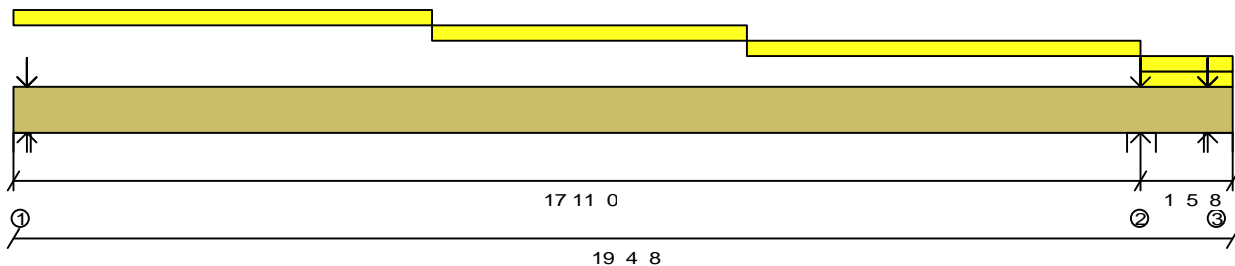
Filename: G1_05.kyb

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	6' 8.00"		27		10		Live
Replacement Uniform (PLF)	Top	6' 8.00"	11' 8.00"		27		10		Live
Replacement Uniform (PLF)	Top	11' 8.00"	17' 11.00"		27		10		Live
Replacement Uniform (PLF)	Top	17' 11.00"	19' 4.50"		27		10		Live
Replacement Uniform (PLF)	Top	17' 11.00"	19' 4.50"		53		60		Live
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			340		0		Snow
Point (LBS)	Top	0' 2.75"			435		320		Live
Point (LBS)	Top	17' 11.00"			592		254		Live
Point (LBS)	Top	18' 11.88"			0		32		Live
Point (LBS)	Top	18' 11.88"			286		116		Live
Point (LBS)	Top	18' 11.88"			306		115		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	SPF Plate (614psi)	3.500"	1.500"	1758#	--
2	17' 11.000"	Wall	SPF Plate (614psi)	5.500"	1.500"	4376#	--
3	19' 4.500"	Wall	SPF Plate (614psi)	5.500"	1.500"	552#	-1042#

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	615#	340#	532#
2	1845#	0#	1288#
3	-324#	0#	-443#

Pass-Thru Framing Squash Block is required at all point loads over bearings**Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements****Design spans**

17' 8.375" 1' 0.875"

Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply**PASSES DESIGN CHECKS****NOTE: Pass-thru framing is required at point loads over bearings.****Design assumes continuous lateral bracing along the top chord.****Design assumes no lateral bracing along the bottom chord.****Review gravity uplift reaction force of 1042lbs at bearing 3 and ensure that the structure can resist appropriately.****Compression edge maximum unbraced length calculation is based on ply width.**
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Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	1535.1#	35386.1#	4%	6.68'	Odd Spans 1.25D+1.5L
Negative Moment	2484.1#	35386.1#	7%	17.92'	Total Load 1.25D+1.5L
Negative Unbrcd	2484.1#	17058.1#	14%	17.92'	Total Load 1.25D+1.5L

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The design must be reviewed by a qualified designer or design professional

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shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet.

as required for approval. This design assumes product installation according to the manufacturer's specifications.

SB

Nascor by KOTT

14 Anderson Blvd.

Uxbridge, ON

www.nascor.ca



Member Data

Description: CalcG2

Comments:

Standard Load:

Live Load: 0 PLF

Dead Load: 0 PLF

Building Type: Residential

Member Type: Girder

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Deflection Criteria: L/480 live, L/360 total

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Importance Category: Normal (Part 9)

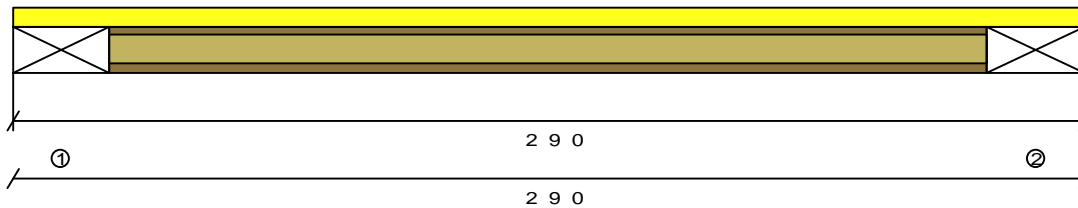
Application: Floor

Building Code: OBC-2012

0.720" max. LL

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	2' 9.00"		353		177		Live



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Girder	N/A	N/A	N/A	845#	--
2	2' 9.000"	Girder	N/A	N/A	N/A	845#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Dead
1	398#	199#
2	398#	199#

Design spans
2' 3.000"

Product: NJ12 2 ply

PASSES DESIGN CHECKS

Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	475. #	9020. #	5%	1.38'	Total Load 1.25D+1.5L
Shear	845. #	3400. #	24%	0'	Total Load 1.25D+1.5L
TL Deflection	0.0035"	0.0750"	L/999+	1.38'	Total Load D+L
LL Deflection	0.0023"	0.0563"	L/999+	1.38'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Control: Shear

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Web stiffener and minimum bearing length requirements at hangared connections depend on the connection style and are not included

Pass-Thru Framing Squash Block is required at all point loads over bearings

Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements

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Uxbridge, ON
www.nascor.ca



Member Data

Description: CalcG3

Comments:

Standard Load:

Live Load: 0 PLF

Dead Load: 0 PLF

Building Type: Residential

Member Type: Girder

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Deflection Criteria: L/480 live, L/360 total

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Importance Category: Normal (Part 9)

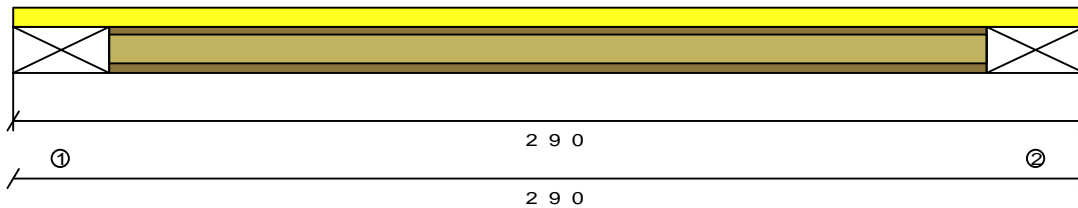
Application: Floor

Building Code: OBC-2012

0.720" max. LL

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	2' 9.00"		329		123		Live



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Girder	N/A	N/A	N/A	728#	--
2	2' 9.000"	Girder	N/A	N/A	N/A	728#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Dead
1	370#	139#
2	370#	139#

Design spans
2' 3.000"

Product: NJ12 2 ply

PASSES DESIGN CHECKS

Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	410. #	9020. #	4%	1.38'	Total Load 1.25D+1.5L
Shear	728. #	3400. #	21%	0'	Total Load 1.25D+1.5L
TL Deflection	0.0030"	0.0750"	L/999+	1.38'	Total Load D+L
LL Deflection	0.0022"	0.0563"	L/999+	1.38'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Control: Shear

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Web stiffener and minimum bearing length requirements at hangared connections depend on the connection style and are not included

Pass-Thru Framing Squash Block is required at all point loads over bearings

Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements

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14 Anderson Blvd
Uxbridge, ON
www.nascor.ca



Member Data**Description: CalcG4**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 5.9 PLF

Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type**

(Description)

Replacement Uniform (PLF)

Side

Top

Begin

0' 0.00"

End

5' 5.25"

Trib.
WidthOther
Start

188

End

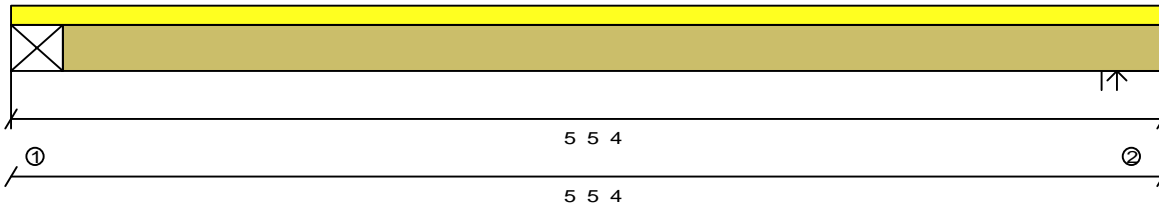
Dead
Start

71

End

Category

Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Girder	N/A	N/A	N/A	939#	--
2	5' 5.250"	Wall	N/A	N/A	1.500"	939#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Dead
1	468#	190#
2	468#	190#

Design spans

4' 11.625"

Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 1 ply**PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	1167. #	17693. #	6%	2.73'	Total Load 1.25D+1.5L
Shear	565. #	6908. #	8%	0.26'	Total Load 1.25D+1.5L
TL Deflection	0.0120"	0.1656"	L/999+	2.73'	Total Load D+L
LL Deflection	0.0085"	0.1242"	L/999+	2.73'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Shear

Minimum bearing length requirements at hanged connections depend on the connection style and are not included in this design.

Pass-Thru Framing Squash Block is required at all point loads over bearings**Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements****RECEIVED**
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14 Anderson Blvd
Uxbridge, ON
www.nascor.ca

Member Data**Description: CalcG5**

Comments:

Standard Load:

Live Load: 0 PLF

Dead Load: 0 PLF

Building Type: Residential

Member Type: Girder

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Deflection Criteria: L/480 live, L/360 total

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012

0.720" max. LL

Other Loads**Type**

(Description)

Replacement Uniform (PLF)

Side

Top

Begin

0' 0.00"

End

1' 8.50"

Trib.
WidthOther
Start

40

End

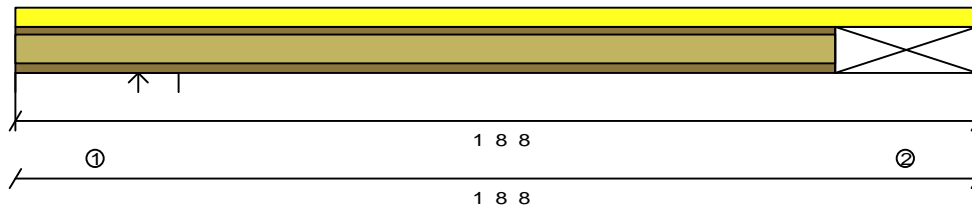
Dead
Start

15

End

Category

Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	49#	--
2	1' 8.500"	Girder	N/A	N/A	N/A	49#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Dead
1	25#	9#
2	25#	9#

Design spans

1' 2.875"

Product: NJ12 2 ply**PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Lateral support is required at each bearing.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	15.1#	9020.1#	0%	0.84'	Total Load 1.25D+1.5L
End Reaction	49.1#	4100.1#	1%	0'	Total Load 1.25D+1.5L
TL Deflection	0.0010"	0.0413"	L/999+	0.84'	Total Load D+L
LL Deflection	0.0010"	0.0310"	L/999+	0.84'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Control: Shear

Shear cannot be calculated because member's length is less than 2d.

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Web stiffener and minimum bearing length requirements at hanged connections depend on the connection style and are not included in

Pass-Thru Framing Squash Block is required at all point loads over bearings**Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements****RECEIVED**
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Member Data**Description: CalcG6**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type

(Description)

Replacement Uniform (PLF)

Side

Top

Begin

0' 0.00"

End

1' 8.50"

Trib.
WidthOther
Start

268

End

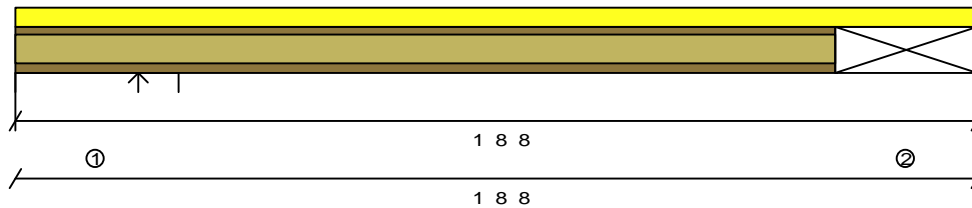
Dead
Start

101

End

Category

Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	327#	--
2	1' 8.500"	Girder	N/A	N/A	N/A	327#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Dead
1	166#	62#
2	166#	62#

Design spans

1' 2.875"

Product: NJ12 2 ply**PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Lateral support is required at each bearing.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	101.1#	9020.1#	1%	0.84'	Total Load 1.25D+1.5L
End Reaction	327.1#	4100.1#	7%	0'	Total Load 1.25D+1.5L
TL Deflection	0.0010"	0.0413"	L/999+	0.84'	Total Load D+L
LL Deflection	0.0010"	0.0310"	L/999+	0.84'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Control: Shear

Shear cannot be calculated because member's length is less than 2d.

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Web stiffener and minimum bearing length requirements at hanged connections depend on the connection style and are not included

Pass-Thru Framing Squash Block is required at all point loads over bearings**Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements****RECEIVED**
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SB
Nascor by KOTT
14 Anderson Blvd
Uxbridge, ON
www.nascor.ca

Member Data**Description: CalcG7**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

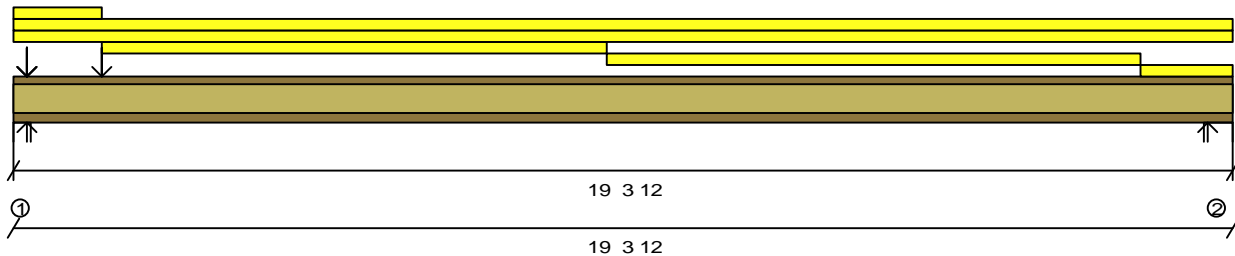
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	1' 5.00"		9		3		Live
Additional Uniform (PLF)	Top	0' 0.00"	19' 3.75"		0		7		Live
Replacement Uniform (PLF)	Top	0' 0.00"	19' 3.75"		27		10		Live
Replacement Uniform (PLF)	Top	1' 5.00"	9' 5.00"		27		10		Live
Replacement Uniform (PLF)	Top	9' 5.00"	17' 10.25"		27		10		Live
Replacement Uniform (PLF)	Top	17' 10.25"	19' 3.75"		27		10		Live
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			340		0		Snow
Point (LBS)	Top	0' 2.75"			453		327		Live
Point (LBS)	Top	1' 5.00"			442		238		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	3259#	--
2	19' 3.750"	Wall	N/A	N/A	1.500"	1120#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	1345#	340#	857#
2	526#	0#	264#

Design spans

18' 8.500"

**Product: NJ12 2 ply****PASSES DESIGN CHECKS**

NOTE: Web stiffeners are required at point loads > 0#.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	5529. #	9020. #	61%	9.41'	Total Load 1.25D+1.5L
Shear	1918. #	3400. #	56%	0'	Total Load 1.25D+1.5L
End Reaction	3259. #	4100. #	79%	0'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.5350"	0.6236"	L/419	9.42'	Total Load D+L
LL Deflection	0.3554"	0.4677"	L/631	9.42'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Control: TL Deflection

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Manufacturer's installation guide MUST be consulted to determine if web stiffeners are required at point loads

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Nascor by KOTT

14 Anderson Blvd

Uxbridge, ON

www.nascor.ca



Member Data**Description: CalcG8**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Standard Load:

Live Load: 0 PLF

Dead Load: 0 PLF

Deck Connection: Nailed

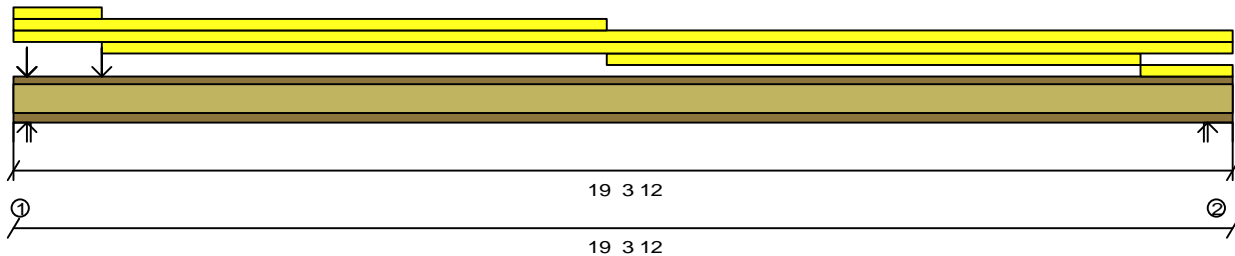
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	1' 5.00"		9		3		Live
Replacement Uniform (PLF)	Top	0' 0.00"	9' 5.00"		27		10		Live
Additional Uniform (PLF)	Top	0' 0.00"	19' 3.75"		0		7		Live
Replacement Uniform (PLF)	Top	1' 5.00"	19' 3.75"		27		10		Live
Replacement Uniform (PLF)	Top	9' 5.00"	17' 10.25"		27		10		Live
Replacement Uniform (PLF)	Top	17' 10.25"	19' 3.75"		27		10		Live
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			340		0		Snow
Point (LBS)	Top	0' 2.75"			453		327		Live
Point (LBS)	Top	1' 5.00"			442		238		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	3259#	--
2	19' 3.750"	Wall	N/A	N/A	1.500"	1120#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	1345#	340#	857#
2	526#	0#	264#

Design spans

18' 8.500"

**Product: NJ12 2 ply****PASSES DESIGN CHECKS**

NOTE: Web stiffeners are required at point loads > 0#.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

Pass-Thru Framing Squash Block is required at all point loads over bearings

Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	5529.#	9020.#	61%	9.41'	Total Load 1.25D+1.5L
Shear	1918.#	3400.#	56%	0'	Total Load 1.25D+1.5L
End Reaction	3259.#	4100.#	79%	0'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.5350"	0.6236"	L/419	9.42'	Total Load D+L
LL Deflection	0.3554"	0.4677"	L/631	9.42'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Control: TL Deflection

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Manufacturer's installation guide MUST be consulted to determine if web stiffeners are required at point loads

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14 Anderson Blvd
Uxbridge, ON
www.nascor.ca



Member Data**Description:** CalcG9**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

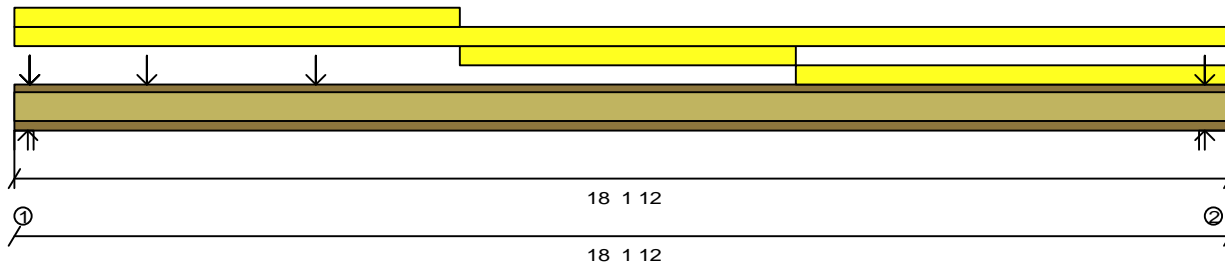
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	6' 8.00"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	18' 1.75"		27		10		Live
Replacement Uniform (PLF)	Top	6' 8.00"	11' 8.00"		27		10		Live
Replacement Uniform (PLF)	Top	11' 8.00"	18' 1.75"		27		10		Live
Point (LBS)	Top	0' 2.75"			65		0		Snow
Point (LBS)	Top	0' 2.75"			0		130		Live
Point (LBS)	Top	0' 2.75"			573		416		Live
Point (LBS)	Top	2' 0.00"			32		23		Live
Point (LBS)	Top	4' 6.00"			212		91		Live
Point (LBS)	Top	17' 9.13"			731		324		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	2890#	--
2	18' 1.750"	Wall	N/A	N/A	1.500"	2535#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	1230#	65#	810#
2	1254#	0#	524#

Design spans

17' 6.500"

**Product: NJ12 2 ply****PASSES DESIGN CHECKS**

NOTE: Web stiffeners are required at point loads > 0#.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	5090. #	9020. #	56%	8.11'	Total Load 1.25D+1.5L
Shear	1316. #	3400. #	38%	0'	Total Load 1.25D+1.5L
End Reaction	2890. #	4100. #	70%	0'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.4289"	0.5847"	L/490	8.99'	Total Load D+L
LL Deflection	0.3086"	0.4385"	L/682	8.99'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Control: TL Deflection

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Manufacturer's installation guide MUST be consulted to determine if web stiffeners are required at point loads

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Nascor by KOTT

14 Anderson Blvd

Uxbridge, ON

www.nascor.ca



Member Data**Description: CalcG10**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

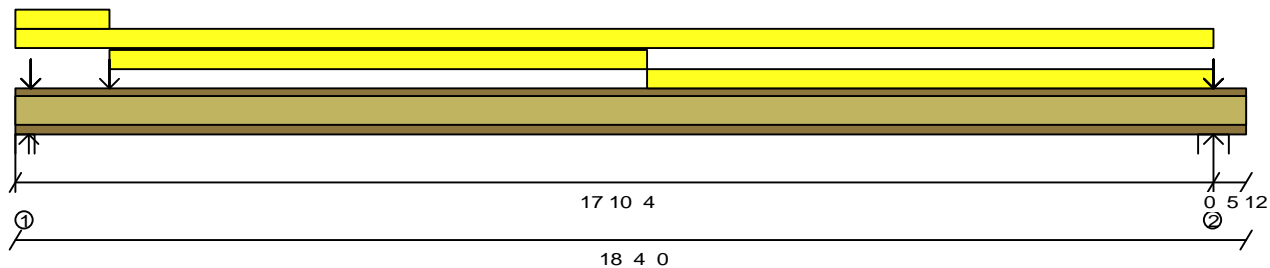
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	1' 5.00"		9		3		Live
Replacement Uniform (PLF)	Top	0' 0.00"	17' 10.25"		27		10		Live
Replacement Uniform (PLF)	Top	1' 5.00"	9' 5.00"		27		10		Live
Replacement Uniform (PLF)	Top	9' 5.00"	17' 10.25"		27		10		Live
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			340		0		Snow
Point (LBS)	Top	0' 2.75"			434		320		Live
Point (LBS)	Top	1' 5.00"			411		172		Live
Point (LBS)	Top	17' 10.25"			0		32		Live
Point (LBS)	Top	17' 10.25"			0		32		Live
Point (LBS)	Top	17' 10.25"			207		88		Live
Point (LBS)	Top	17' 10.25"			286		107		Live
Point (LBS)	Top	17' 10.25"			286		107		Live
Point (LBS)	Top	17' 10.25"			295		131		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	2961#	--
2	17' 10.250"	Wall	N/A	N/A	1.500"	3213#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	1266#	340#	713#
2	1571#	0#	686#

Design spans

17' 7.625"

0' 3.625" (right cant)

**Product: NJ12 2 ply**

NOTE: Web stiffeners are required at point loads > 0#.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

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PASSES DESIGN CHECKS

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	4575. #	9020. #	50%	8.15'	Total Load 1.25D+1.5L
Shear	1660. #	3400. #	48%	0'	Total Load 1.25D+1.5L
Cant. Shear, Rt	0. #	3400. #	0%	N/A	Total Load 1.25D+1.5L
End Reaction	3213. #	4100. #	78%	17.85'	Total Load 1.25D+1.5L
TL Deflection	0.3923"	0.5878"	L/539	9.04'	Total Load D+L
LL Deflection	0.2842"	0.4409"	L/744	9.04'	Total Load L
TL Defl., Rt.	-0.0196"	0.2000"	2L/370	18.33'	Total Load D+L
LL Defl., Rt.	-0.0142"	0.2000"	2L/510	18.33'	Total Load L

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Nascor by KOTT

14 Anderson Blvd

Uxbridge, ON

www.nascor.ca



Member Data**Description:** CalcG11**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

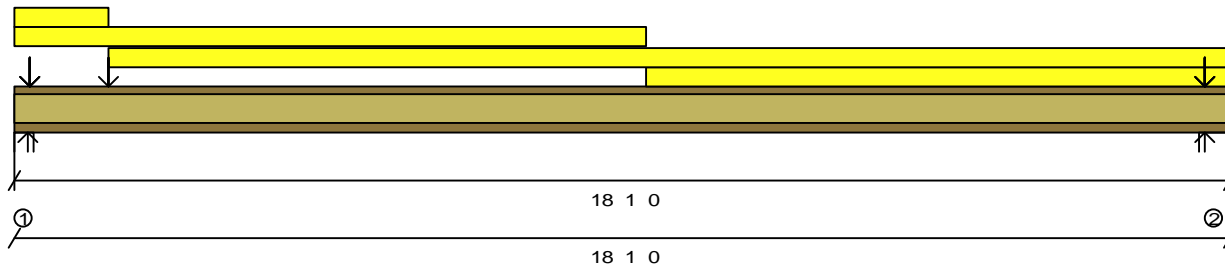
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	1' 5.00"		9		3		Live
Replacement Uniform (PLF)	Top	0' 0.00"	9' 5.00"		27		10		Live
Replacement Uniform (PLF)	Top	1' 5.00"	18' 1.00"		27		10		Live
Replacement Uniform (PLF)	Top	9' 5.00"	18' 1.00"		27		10		Live
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			340		0		Snow
Point (LBS)	Top	0' 2.75"			434		320		Live
Point (LBS)	Top	1' 5.00"			411		172		Live
Point (LBS)	Top	17' 8.38"			0		65		Live
Point (LBS)	Top	17' 8.38"			413		176		Live
Point (LBS)	Top	17' 8.38"			571		214		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	2953#	--
2	18' 1.000"	Wall	N/A	N/A	1.500"	3019#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	1262#	340#	712#
2	1478#	0#	641#

Design spans

17' 5.750"

**Product: NJ12 2 ply****PASSES DESIGN CHECKS**

NOTE: Web stiffeners are required at point loads > 0#.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.
Lateral support is required at each bearing.

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	4504. #	9020. #	49%	8.08'	Total Load 1.25D+1.5L
Shear	1651. #	3400. #	48%	0'	Total Load 1.25D+1.5L
End Reaction	3019. #	4100. #	73%	18.08'	Total Load 1.25D+1.5L
TL Deflection	0.3799"	0.5826"	L/552	8.96'	Total Load D+L
LL Deflection	0.2752"	0.4370"	L/762	8.96'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Control: Max End React.

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Manufacturer's installation guide MUST be consulted to determine if web stiffeners are required at point loads

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Uxbridge, ON
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Member Data**Description: CalcG12**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 11.8 PLF

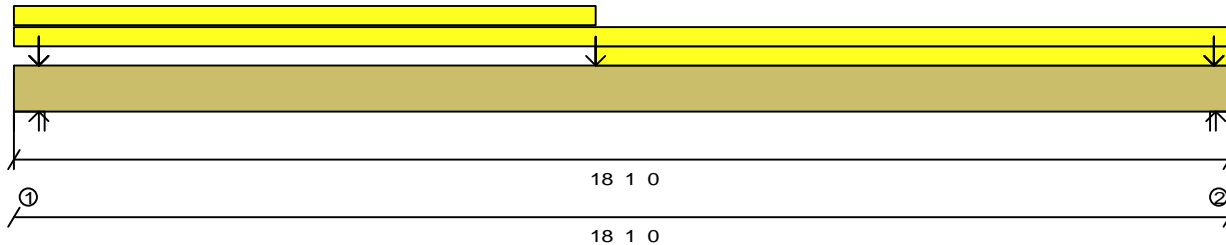
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	8' 8.00"		120		45		Live
Replacement Uniform (PLF)	Top	0' 0.00"	18' 1.00"		27		10		Live
Replacement Uniform (PLF)	Top	8' 8.00"	18' 1.00"		27		10		Live
Point (LBS)	Top	0' 4.63"			0		32		Live
Point (LBS)	Top	0' 4.63"			434		163		Live
Point (LBS)	Top	0' 4.63"			614		396		Live
Point (LBS)	Top	8' 8.00"			487		219		Live
Point (LBS)	Top	17' 10.25"			65		20		Snow
Point (LBS)	Top	17' 10.25"			0		130		Live
Point (LBS)	Top	17' 10.25"			0		130		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	5046#	--
2	18' 1.000"	Wall	N/A	N/A	1.500"	2263#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	2360#	0#	1205#
2	880#	65#	729#

Design spans

17' 5.750"

**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Compression edge maximum unbraced length calculation is based on ply width.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	12247. #	35386. #	34%	8.67'	Total Load 1.25D+1.5L
Shear	2435. #	13815. #	17%	0.4'	Total Load 1.25D+1.5L
TL Deflection	0.4699"	0.5826"	L/446	8.68'	Total Load D+L
LL Deflection	0.3171"	0.4370"	L/661	8.68'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: TL Deflection

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

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Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

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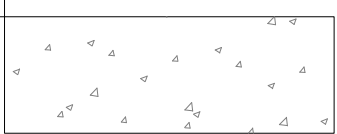
**Passing is defined as when the member, floor joist, beam or girder shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet. The design must be reviewed by a qualified designer or design professional as required for approval. This design assumes product installation according to the manufacturer's specifications.

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----- Floor Framing Material -----

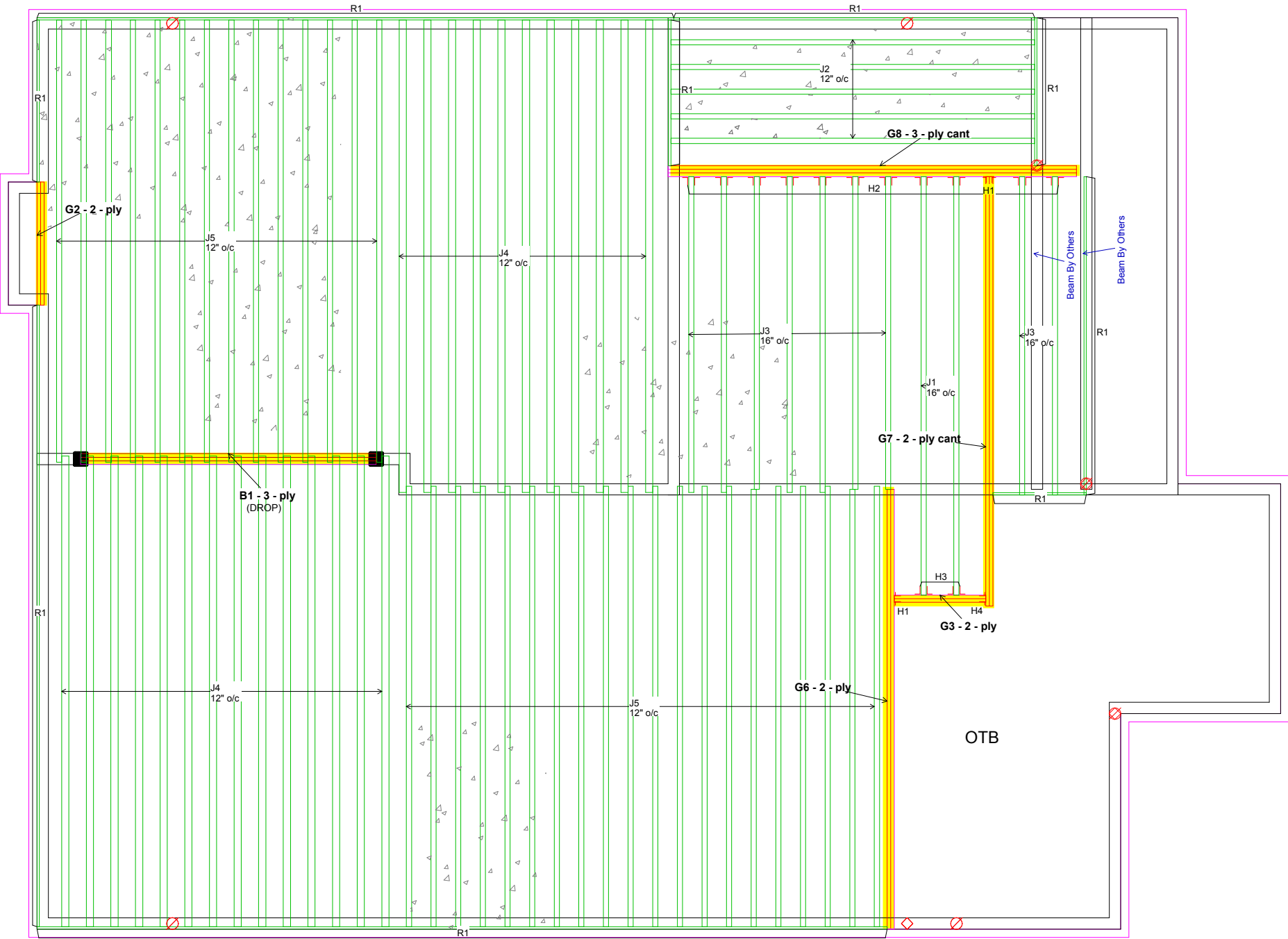
Type	Qty.	Product	Length
J1	2	NJH12	18' 0"
J2	5	NJH12	16' 0"
J3	9	NJH12	14' 0"
J4	25	NJ60U12	20' 0"
J5	34	NJ60H12	18' 0"
G2	2	1 3/4x11 7/8 West Fraser 2.0E-	6' 0"
G3	2	1 3/4x11 7/8 West Fraser 2.0E-	4' 0"
G6	2	1 3/4x11 7/8 West Fraser 2.0E-	18' 0"
G7	2	1 3/4x11 7/8 West Fraser 2.0E-	18' 0"
G8	3	1 3/4x11 7/8 West Fraser 2.0E-	18' 0"
R1	12	11 7/8" RIMBOARD	12' 0"



HATCH AREA INDICATED REPRESENTS
CERAMIC TILED FLOOR WITH AN
ADDITIONAL DEAD LOAD OF 5.00 PSF

Refer to Multiple Member Connection
Detail to ply to ply nailing or bolting
requirements.

PASS-THRU FRAMING SQUASH BLOCK
IS REQUIRED AT ALL POINT LOADS
OVER BEARINGS.



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DESIGN ASSUMPTIONS
=====

Loads:(un-factored)
T/C Live: 40 psf B/C Live: 0 psf
T/C Dead: 15 psf B/C Dead: 0 psf
Load Case: Live
Deflection Criteria:
L/480 Live L/360 Total
Building Code: OBC-2012 (Limit States Design)
Building Type: Residential
Importance Category: Normal (Part 9)
Design assumes top edge continuously braced,
and bottom edge unbraced.
Joist Design Includes CCMC Vibration Check
Subfloor: 5/8" OSB Glued and Nailed
Ceiling: 1/2" gypsum
Blocking: (None)

All Loads are UN-FACTORED Loads

NOTES:

1. Framers to verify dimensions on the architectural drawings.
2. Double joist only require filler/backer ply when supporting another member using a face-mounted hanger.
3. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls.
4. Install single-ply flush window header along inside face of rimboard/rimjoist.
5. Refer to Nascor specifier guide for installation details.
6. Squash blocks recommended to be installed at end bearing on all first level joists which support loading from above exceeding two levels floor or roof.
7. Load transfer blocks to be installed under all point loads.
8. It shall be the framer's responsibility that floor joists and beams are fastened as per the hanger manufacturer's standards.

----- Connector List -----

ID#	Qty	Model Number
H1	2	HGUS410
H2	11	LT251188
H3	2	LT251188
H4	1	HUC410

Rim parallel to joists: 1-1/8" rimboard with
2"x4" block (1/16" longer than rim depth) @ 16" o/c.
All other components and structural elements supporting
the floor system such as beams, walls, columns and
foundation walls and footings including anchorage of
components and bracing for lateral stability are the
responsibility of others.

SECOND FLOOR FRAMING



TOWN OF MILTON

PLANNING AND DEVELOPMENT

JUNIPER 6 MODEL

BUILDING: REVIEWED

SCOTT SHERRIFFS

APR 11, 2017

PLANS EXAMINER

DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

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Project Tag:

JUNIPER 6 EL -1 -2

GREEN PARK HOMES
LECCO RIDGE
MILTON,ON

SALESMAN: RM

Time: 03:18 PM
DATE: 10/27/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

Member Data**Description: CalcG2**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 11.8 PLF

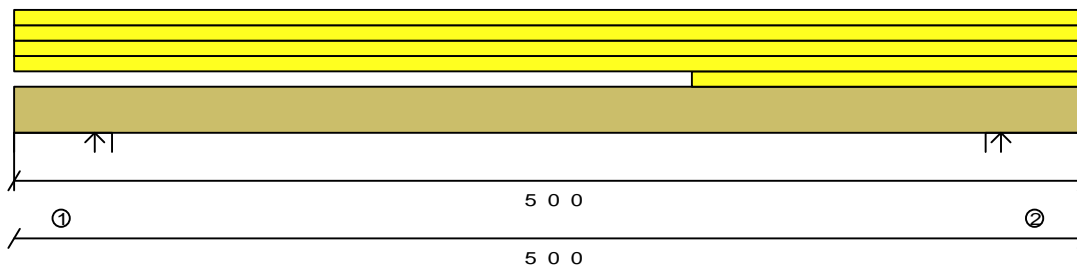
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	5' 0.00"		9		3		Live
Replacement Uniform (PLF)	Top	0' 0.00"	5' 0.00"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	5' 0.00"		62		0		Snow
Replacement Uniform (PLF)	Top	0' 0.00"	5' 0.00"		27		108		Live
Additional Uniform (PLF)	Top	3' 2.00"	5' 0.00"		0		7		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	618#	--
2	5' 0.000"	Wall	N/A	N/A	1.500"	626#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	133#	131#	283#
2	133#	131#	289#

Design spans

4' 2.750"

**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Compression edge maximum unbraced length calculation is based on ply width.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	656. #	35386. #	1%	2.5'	Total Load 1.25D+1.5L+1.00*0.5S
Shear	330. #	13815. #	2%	0.4'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.0031"	0.1410"	L/999+	2.5'	Total Load D+L+0.5S
LL Deflection	0.0013"	0.1057"	L/999+	2.5'	Total Load L+0.5S

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Shear

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

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Pass-Thru Framing Squash Block is
required at all point loads over bearingsRefer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

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Member Data

Description: CalcG3

Comments:

Member Type: Girder

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Deflection Criteria: L/480 live, L/360 total

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Application: Floor

Building Code: OBC-2012

0.720" max. LL

Member Weight: 11.8 PLF

Standard Load:

Live Load: 0 PLF

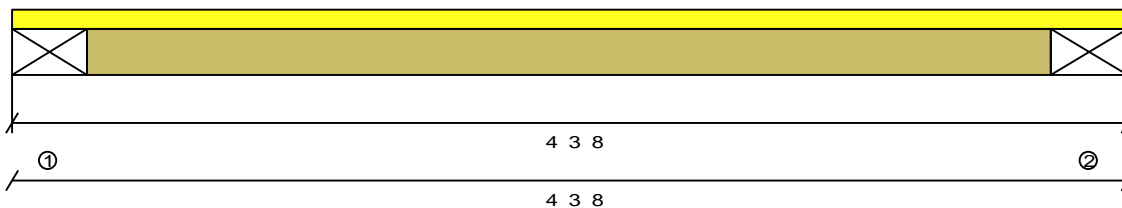
Dead Load: 0 PLF

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	4' 3.50"		-140		-21		Live



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Girder	N/A	N/A	N/A	31#	-410#
2	4' 3.500"	Girder	N/A	N/A	N/A	31#	-410#

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Dead
1	-258#	22#
2	-258#	22#

Design spans
3' 8.500"



Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply

PASSES DESIGN CHECKS

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Review gravity uplift reaction force of 411lbs at bearing 1 and ensure that the structure can resist appropriately.

Review gravity uplift reaction force of 411lbs at bearing 2 and ensure that the structure can resist appropriately.

Compression edge maximum unbraced length calculation is based on ply width.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	29.1#	23001.1#	0%	2.15'	Total Load 1.4D
Negative Moment	381.1#	35386.1#	1%	2.15'	Total Load 1.25D+1.5L
Negative Unbrcd	381.1#	24096.1#	1%	2.15'	Total Load 1.25D+1.5L
Shear	192.1#	13815.1#	1%	0.3'	Total Load 1.25D+1.5L
TL Deflection	-0.0014"	0.1236"	L/999+	2.15'	Total Load D+L
LL Deflection	-0.0013"	0.0927"	L/999+	2.15'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Negative Unbrcd

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Minimum bearing length requirements at hungared connections depend on the connection style and are not included in this design.

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Pass-Thru Framing Squash Block is required at all point loads over bearings

Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements

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Member Data**Description:** CalcG6**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 11.8 PLF

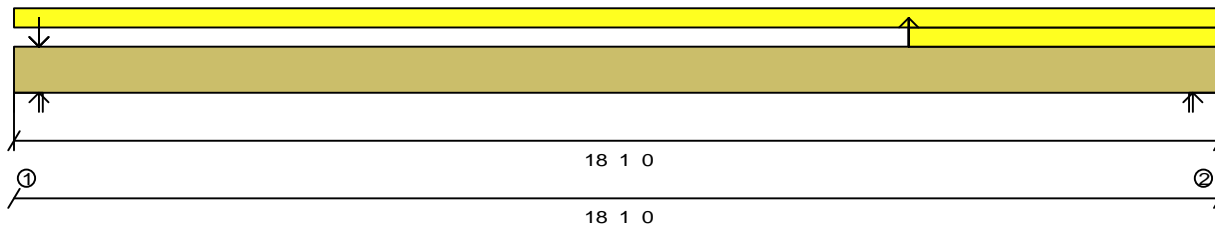
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	18' 1.00"		27		10		Live
Replacement Uniform (PLF)	Top	13' 5.00"	18' 1.00"		27		10		Live
Point (LBS)	Top	0' 4.63"			0		65		Live
Point (LBS)	Top	0' 4.63"			148		148		Live
Point (LBS)	Top	0' 4.63"			340		0		Snow
Point (LBS)	Top	13' 5.00"			-280		-15		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	1268#	--
2	18' 1.000"	Wall	N/A	N/A	1.500"	779#	-232#

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	393#	340#	407#
2	331#	0#	226#

Design spans

17' 3.750"

**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Compression edge maximum unbraced length calculation is based on ply width.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	2760. #	35386. #	7%	9.04'	Total Load 1.25D+1.5L
Negative Moment	1096. #	35386. #	3%	13.42'	Total Load 0.9D+1.5L
Negative Unbrcd	1096. #	5192. #	21%	13.42'	Total Load 0.9D+1.5L
Shear	661. #	13815. #	4%	16.83'	Total Load 1.25D+1.5L
TL Deflection	0.1166"	0.5771"	L/999+	9.04'	Total Load D+L
LL Deflection	0.0661"	0.4328"	L/999+	9.04'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Negative Unbrcd

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

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Pass-Thru Framing Squash Block is
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Member Data**Description: CalcG7**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 11.8 PLF

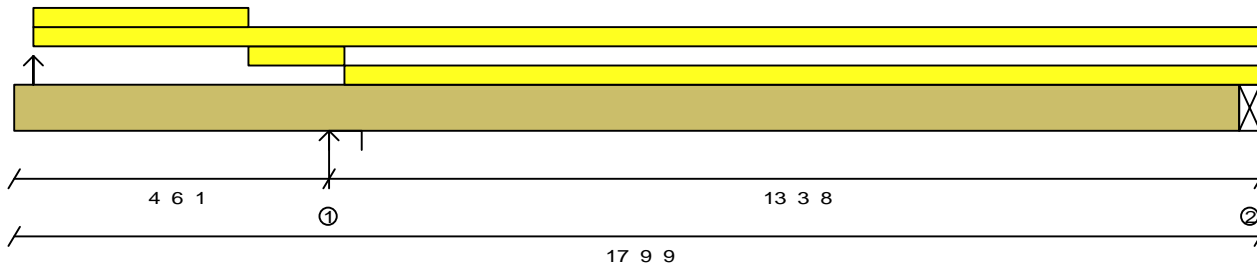
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 3.56"	3' 4.19"		120		45		Live
Replacement Uniform (PLF)	Top	0' 3.56"	17' 9.56"		27		10		Live
Replacement Uniform (PLF)	Top	3' 4.19"	4' 8.81"		120		45		Live
Replacement Uniform (PLF)	Top	4' 8.81"	17' 9.56"		27		10		Live
Point (LBS)	Top	0' 3.56"			-280		-15		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	4' 6.062"	Wall	N/A	N/A	1.500"	2310#	-446#
2	17' 9.562"	Girder	N/A	N/A	N/A	726#	-5#

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Dead
1	1085#	546#
2	347#	165#

Design spans

4' 6.062" (left cant) 13' 0.000"

**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Review gravity uplift reaction force of 446lbs at bearing 1 and ensure that the structure can resist appropriately.

Compression edge maximum unbraced length calculation is based on ply width.

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BUILDING DIVISION**Limit States Design**

	Actual	Limit	Capacity	Location	Loading
Positive Moment	2201.1#	35386.1#	6%	11.66'	Even Spans 1.25D+1.5L
Negative Moment	2705.1#	35386.1#	7%	4.51'	Total Load 1.25D+1.5L
Negative Unbrd	2493.1#	5134.1#	48%	4.51'	Cants Only 0.9D+1.5L
Shear	981.1#	13815.1#	7%	3.6'	Total Load 1.25D+1.5L
TL Deflection	0.0500"	0.4334"	L/999+	11.01'	Even Spans D+L
LL Deflection	0.0383"	0.3250"	L/999+	11.01'	Even Spans L
TL Defl., Lt.	-0.0605"	0.3003"	2L/999+	0'	Total Load D+L
LL Defl., Lt.	0.0559"	0.2253"	2L/999+	0'	Cants Only L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Negative Unbrd

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Minimum bearing length requirements at hangared connections depend on the connection style and are not included in this design.

**Pass-Thru Framing Squash Block is
required at all point loads over bearings****Refer to Multiple Member Connection
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Member Data**Description:** CalcG8**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 17.7 PLF

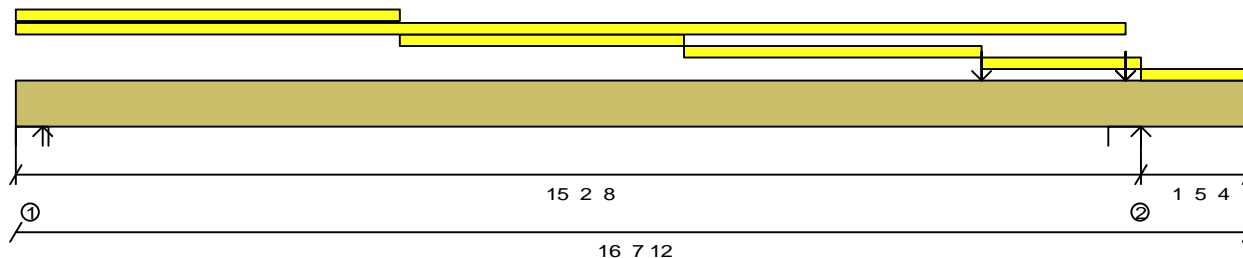
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Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	5' 2.50"		258		106		Live
Replacement Uniform (PLF)	Top	0' 0.00"	14' 11.75"		27		10		Live
Replacement Uniform (PLF)	Top	5' 2.50"	9' 0.50"		258		97		Live
Replacement Uniform (PLF)	Top	9' 0.50"	13' 0.50"		210		78		Live
Replacement Uniform (PLF)	Top	13' 0.50"	15' 2.50"		258		97		Live
Replacement Uniform (PLF)	Top	15' 2.50"	16' 7.75"		258		178		Live
Point (LBS)	Top	13' 0.50"			90		56		Live
Point (LBS)	Top	14' 11.75"			48		0		Snow
Point (LBS)	Top	14' 11.75"			21		83		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	4275#	--
2	15' 2.500"	Wall	N/A	N/A	1.500"	5330#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	2071#	0#	935#
2	2455#	48#	1300#

Design spans

14' 9.875" 1' 5.250" (right cant)

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**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 3 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	15384. #	55200. #	27%	7.8'	Odd Spans 1.25D+1.5L
Negative Moment	653. #	55200. #	1%	15.21'	Total Load 1.25D+1.5L
Negative Unbrcd	653. #	55200. #	1%	15.21'	Total Load 1.25D+1.5L
Shear	3698. #	20723. #	17%	14.47'	Total Load 1.25D+1.5L
TL Deflection	0.3112"	0.4941"	L/571	7.8'	Odd Spans D+L
LL Deflection	0.2169"	0.3706"	L/819	7.8'	Odd Spans L
TL Defl., Rt.	-0.0894"	0.2000"	2L/386	16.65'	Odd Spans D+L
LL Defl., Rt.	-0.0629"	0.2000"	2L/548	16.65'	Odd Spans L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: TL Deflection

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Pass-Thru Framing Squash Block is required at all point loads over bearings**Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements**

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Member Data**Description:** CalcB1**Comments:**

Member Type: Beam

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 17.7 PLF

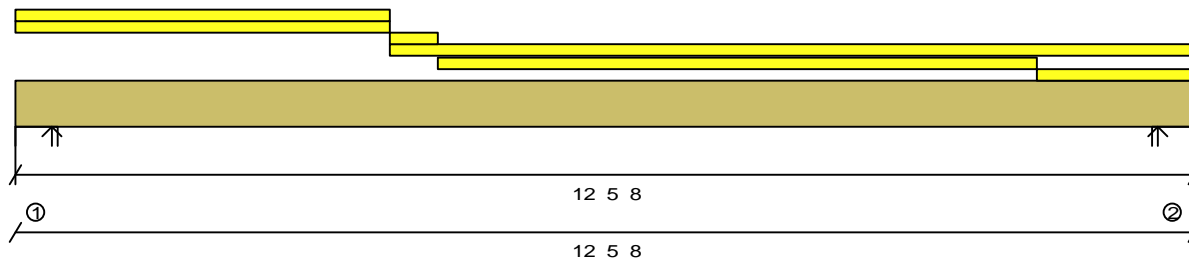
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Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	3' 11.50"		358		144		Live
Replacement Uniform (PLF)	Top	0' 0.00"	3' 11.50"		382		143		Live
Replacement Uniform (PLF)	Top	3' 11.50"	4' 5.50"		358		144		Live
Replacement Uniform (PLF)	Top	3' 11.50"	12' 5.50"		382		143		Live
Replacement Uniform (PLF)	Top	4' 5.50"	10' 9.50"		358		174		Live
Replacement Uniform (PLF)	Top	10' 9.50"	12' 5.50"		358		134		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.612"	8803#	--
2	12' 5.500"	Wall	N/A	N/A	1.620"	8844#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Dead
1	4324#	1853#
2	4324#	1886#

Design spans

11' 8.250"

**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 3 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	25918. #	55200. #	46%	6.23'	Total Load 1.25D+1.5L
Shear	7380. #	20723. #	35%	11.49'	Total Load 1.25D+1.5L
TL Deflection	0.3389"	0.3896"	L/413	6.23'	Total Load D+L
LL Deflection	0.2354"	0.2922"	L/595	6.23'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: TL Deflection

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

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Pass-Thru Framing Squash Block is
required at all point loads over bearingsRefer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

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shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet.

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----- Floor Framing Material -----			
Type	Qty.	Product	Length
J1	2	NJH12	18' 0"
J2	5	NJ60H12	18' 0"
J3	9	NJH12	14' 0"
J4	25	NJ60U12	20' 0"
J5	34	NJ60H12	18' 0"
G2	2	1 3/4x11 7/8 West Fraser 2.0E-	6' 0"
G3	2	1 3/4x11 7/8 West Fraser 2.0E-	4' 0"
G6	2	1 3/4x11 7/8 West Fraser 2.0E-	18' 0"
G7	2	1 3/4x11 7/8 West Fraser 2.0E-	18' 0"
G8	3	1 3/4x11 7/8 West Fraser 2.0E-	18' 0"
R1	12	11 7/8" RIMBOARD	12' 0"

----- Beam & Ledger Material -----			
Type	Qty.	Product	Length
B1	3	1 3/4x11 7/8 West Fraser 2.0E-	12' 0"

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DESIGN ASSUMPTIONS
=====

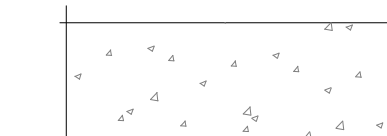
Loads:(un-factored)
T/C Live: 40 psf B/C Live: 0 psf
T/C Dead: 15 psf B/C Dead: 0 psf
Load Case: Live
Deflection Criteria:
L/480 Live L/360 Total
Building Code: OBC-2012 (Limit States Design
Building Type: Residential
Importance Category: Normal (Part 9)
Design assumes top edge continuously braced,
and bottom edge unbraced.
Joist Design Includes CCMC Vibration Check
Subfloor: 5/8" OSB Glued and Nailed
Ceiling: 1/2" gypsum
Blocking: (None)

All Loads are UN-FACTORED Loads

NOTES:

1. Framers to verify dimensions on the architectural drawings.
2. Double joist only require filler/backer ply when supporting another member using a face-mounted hanger.
3. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls.
4. Install single-ply flush window header along inside face of rimboard/rimjoist.
5. Refer to Nascor specifier guide for installation details.
6. Squash blocks recommended to be installed at end bearing on all first level joists which support loading from above exceeding two levels floor or roof.
7. Load transfer blocks to be installed under all point loads.
8. It shall be the framer's responsibility that floor joists and beams are fastened as per the hanger manufacturer's standards.

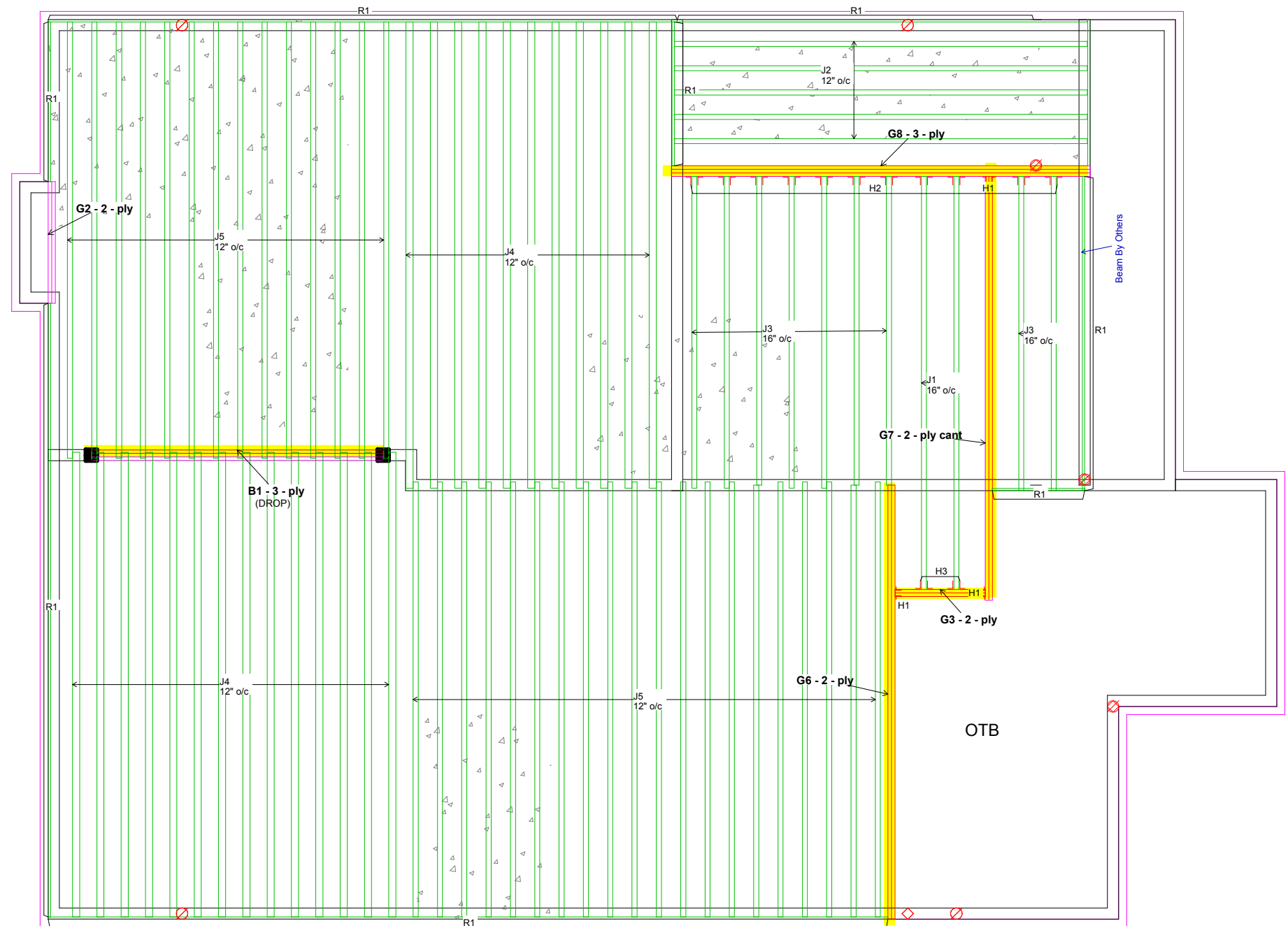
Rim parallel to joists: 1-1/8" rimboard with 2"x4" block (1/16" longer than rim depth) @ 16" o/c.
All other components and structural elements supporting the floor system such as beams, walls, columns and foundation walls and footings including anchorage of components and bracing for lateral stability are the responsibility of others.



HATCH AREA INDICATED REPRESENTS CERAMIC TILED FLOOR WITH AN ADDITIONAL DEAD LOAD OF 5.00 PSF

Refer to Multiple Member Connection Detail to ply to ply nailing or bolting requirements.

PASS-THRU FRAMING SQUASH BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.



----- Connector List ----

ID#	Qty	Model Number
H1	2	HGUS410
H2	11	LT251188
H3	2	LT251188
H4	1	HUC410

SECOND FLOOR FRAMING



TOWN OF MILTON

PLANNING AND DEVELOPMENT

JUNIPER 6 MODEL

BUILDING: REVIEWED

SCOTT SHERRIFFS

PLANS EXAMINER

APR 11, 2017

DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

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Project Tag:

JUNIPER 6 EL - 3

GREEN PARK HOMES
LECCO RIDGE
MILTON, ON

SALESMAN: RM

Time: 03:18 PM
DATE: 10/27/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

Member Data**Description: CalcG2**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 11.8 PLF

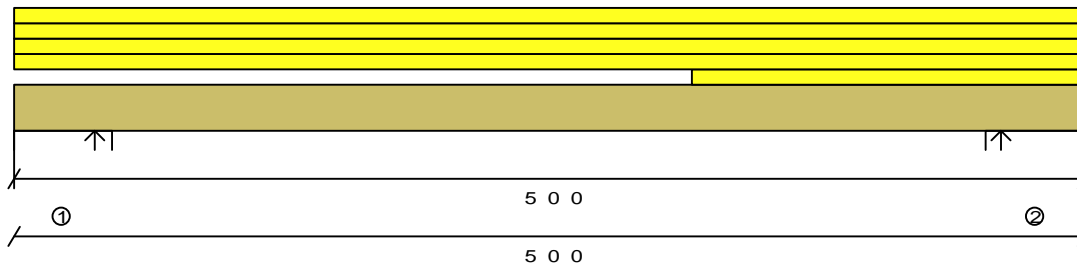
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	5' 0.00"		9		3		Live
Replacement Uniform (PLF)	Top	0' 0.00"	5' 0.00"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	5' 0.00"		62		0		Snow
Replacement Uniform (PLF)	Top	0' 0.00"	5' 0.00"		27		108		Live
Additional Uniform (PLF)	Top	3' 2.00"	5' 0.00"		0		7		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravit Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	618#	--
2	5' 0.000"	Wall	N/A	N/A	1.500"	626#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	133#	131#	283#
2	133#	131#	289#

Design spans

4' 2.750"

**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Compression edge maximum unbraced length calculation is based on ply width.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	656. #	35386. #	1%	2.5'	Total Load 1.25D+1.5L+1.00*0.5S
Shear	330. #	13815. #	2%	0.4'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.0031"	0.1410"	L/999+	2.5'	Total Load D+L+0.5S
LL Deflection	0.0013"	0.1057"	L/999+	2.5'	Total Load L+0.5S

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Shear

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

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Pass-Thru Framing Squash Block is
required at all point loads over bearingsRefer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

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shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet.

shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet.

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Member Data

Description: CalcG3

Comments:

Member Type: Girder

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Deflection Criteria: L/480 live, L/360 total

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Application: Floor

Building Code: OBC-2012

0.720" max. LL

Member Weight: 11.8 PLF

Standard Load:

Live Load: 0 PLF

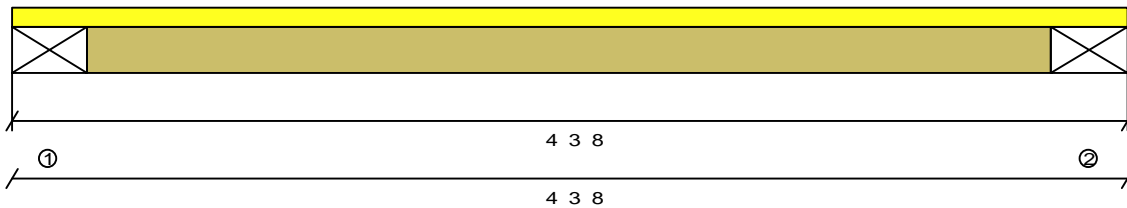
Dead Load: 0 PLF

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	4' 3.50"		-140		-21		Live



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Girder	N/A	N/A	N/A	31#	-410#
2	4' 3.500"	Girder	N/A	N/A	N/A	31#	-410#

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Dead
1	-258#	22#
2	-258#	22#

Design spans
3' 8.500"



Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply

PASSES DESIGN CHECKS

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Review gravity uplift reaction force of 411lbs at bearing 1 and ensure that the structure can resist appropriately.

Review gravity uplift reaction force of 411lbs at bearing 2 and ensure that the structure can resist appropriately.

Compression edge maximum unbraced length calculation is based on ply width.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	29.1#	23001.1#	0%	2.15'	Total Load 1.4D
Negative Moment	381.1#	35386.1#	1%	2.15'	Total Load 1.25D+1.5L
Negative Unbrcd	381.1#	24096.1#	1%	2.15'	Total Load 1.25D+1.5L
Shear	192.1#	13815.1#	1%	0.3'	Total Load 1.25D+1.5L
TL Deflection	-0.0014"	0.1236"	L/999+	2.15'	Total Load D+L
LL Deflection	-0.0013"	0.0927"	L/999+	2.15'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Negative Unbrcd

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Minimum bearing length requirements at hungared connections depend on the connection style and are not included in this design.

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Pass-Thru Framing Squash Block is required at all point loads over bearings

Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements

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Member Data**Description: CalcG6**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 11.8 PLF

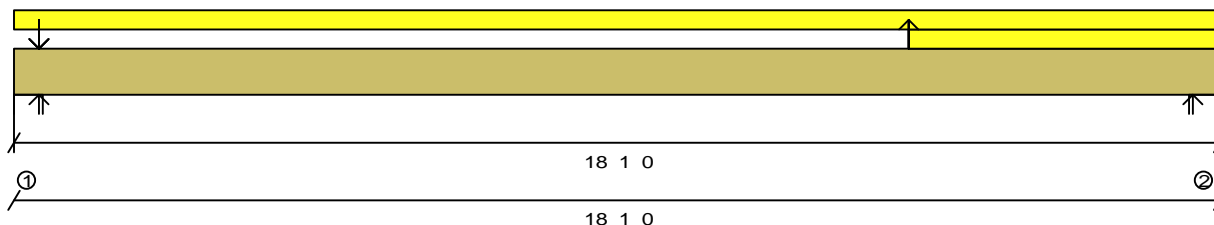
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Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	18' 1.00"		27		10		Live
Replacement Uniform (PLF)	Top	13' 5.00"	18' 1.00"		27		10		Live
Point (LBS)	Top	0' 4.63"			0		65		Live
Point (LBS)	Top	0' 4.63"			148		148		Live
Point (LBS)	Top	0' 4.63"			340		0		Snow
Point (LBS)	Top	13' 5.00"			-280		-15		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	1268#	--
2	18' 1.000"	Wall	N/A	N/A	1.500"	779#	-232#

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	393#	340#	407#
2	331#	0#	226#

Design spans

17' 3.750"

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**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Compression edge maximum unbraced length calculation is based on ply width.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	2760. #	35386. #	7%	9.04'	Total Load 1.25D+1.5L
Negative Moment	1096. #	35386. #	3%	13.42'	Total Load 0.9D+1.5L
Negative Unbrcd	1096. #	5192. #	21%	13.42'	Total Load 0.9D+1.5L
Shear	661. #	13815. #	4%	16.83'	Total Load 1.25D+1.5L
TL Deflection	0.1166"	0.5771"	L/999+	9.04'	Total Load D+L
LL Deflection	0.0661"	0.4328"	L/999+	9.04'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Negative Unbrcd

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Pass-Thru Framing Squash Block is
required at all point loads over bearings

Refer to Multiple Member Connection
Detail for ply to ply nailing or bolting
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Member Data**Description: CalcG7**

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Deflection Criteria: L/480 live, L/360 total

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 11.8 PLF

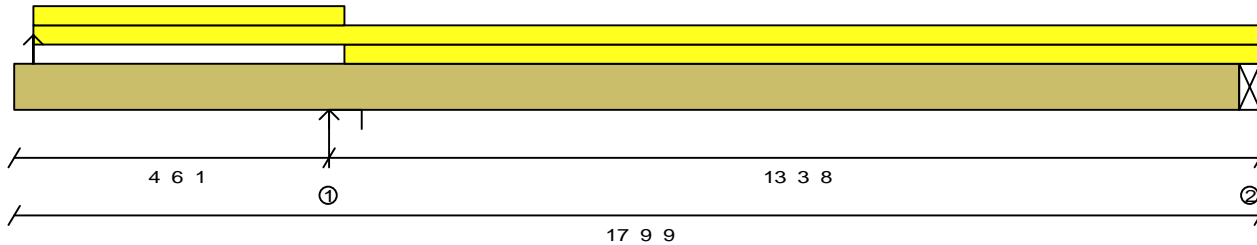
Filename: D:\SAUMIL\GR

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 3.56"	4' 8.81"		120		45		Live
Replacement Uniform (PLF)	Top	0' 3.56"	17' 9.56"		27		10		Live
Replacement Uniform (PLF)	Top	4' 8.81"	17' 9.56"		27		10		Live
Point (LBS)	Top	0' 3.56"			-280		-15		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	4' 6.062"	Wall	N/A	N/A	1.500"	2310#	-446#
2	17' 9.562"	Girder	N/A	N/A	N/A	726#	-5#

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Dead
1	1085#	546#
2	347#	165#

Design spans

4' 6.062" (left cant)

13' 0.000"

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**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 2 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Review gravity uplift reaction force of 446lbs at bearing 1 and ensure that the structure can resist appropriately.

Compression edge maximum unbraced length calculation is based on ply width.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	2201.1#	35386.1#	6%	11.66'	Even Spans 1.25D+1.5L
Negative Moment	2705.1#	35386.1#	7%	4.51'	Total Load 1.25D+1.5L
Negative Unbrcd	2493.1#	5134.1#	48%	4.51'	Cants Only 0.9D+1.5L
Shear	981.1#	13815.1#	7%	3.6'	Total Load 1.25D+1.5L
TL Deflection	0.0500"	0.4334"	L/999+	11.01'	Even Spans D+L
LL Deflection	0.0383"	0.3250"	L/999+	11.01'	Even Spans L
TL Defl., Lt.	-0.0605"	0.3003"	2L/999+	0'	Total Load D+L
LL Defl., Lt.	0.0559"	0.2253"	2L/999+	0'	Cants Only L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: Negative Unbrcd

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

Minimum bearing length requirements at hangared connections depend on the connection style and are not included in this design.

Pass-Thru Framing Squash Block is required at all point loads over bearings**Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements**

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Member Data

Description: CalcG8

Comments:

Member Type: Girder

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Deflection Criteria: L/480 live, L/360 total

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Application: Floor

Building Code: OBC-2012

0.720" max. LL

Member Weight: 17.7 PLF

Standard Load:

Live Load: 0 PLF

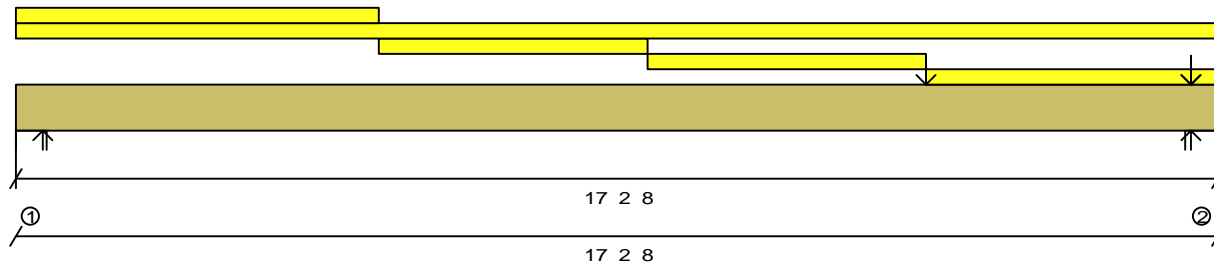
Dead Load: 0 PLF

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	5' 2.50"		258		106		Live
Replacement Uniform (PLF)	Top	0' 0.00"	17' 2.50"		27		10		Live
Replacement Uniform (PLF)	Top	5' 2.50"	9' 0.50"		258		97		Live
Replacement Uniform (PLF)	Top	9' 0.50"	13' 0.50"		210		78		Live
Replacement Uniform (PLF)	Top	13' 0.50"	17' 2.50"		258		97		Live
Point (LBS)	Top	13' 0.50"			90		55		Live
Point (LBS)	Top	16' 9.88"			49		0		Snow
Point (LBS)	Top	16' 9.88"			22		86		Live



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.500"	4754#	--
2	17' 2.500"	Wall	N/A	N/A	1.500"	4876#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	2295#	0#	1049#
2	2309#	49#	1110#

Design spans

16' 5.250"



Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 3 ply

PASSES DESIGN CHECKS

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	19046.##	55200.##	34%	8.6'	Total Load 1.25D+1.5L
Shear	4165.##	20723.##	20%	0.4'	Total Load 1.25D+1.5L
TL Deflection	0.4711"	0.5479"	L/418	8.6'	Total Load D+L
LL Deflection	0.3249"	0.4109"	L/607	8.6'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: TL Deflection

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

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Pass-Thru Framing Squash Block is required at all point loads over bearings

Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements

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**Passing is defined as when the member, floor joist, beam or girder shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet. The design must be reviewed by a qualified designer or design professional as required for approval. This design assumes product installation according to the manufacturer's specifications.

SB
Nascor by KOTT
14 Anderson Blvd
Uxbridge, ON
www.nascor.ca



Member Data**Description:** CalcB1

Comments:

Member Type: Beam

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Deflection Criteria: L/480 live, L/360 total

Deck Connection: Nailed

Filename: D:\SAUMIL\GR

Application: Floor

Building Code: OBC-2012

0.720" max. LL

Member Weight: 17.7 PLF

Standard Load:

Live Load: 0 PLF

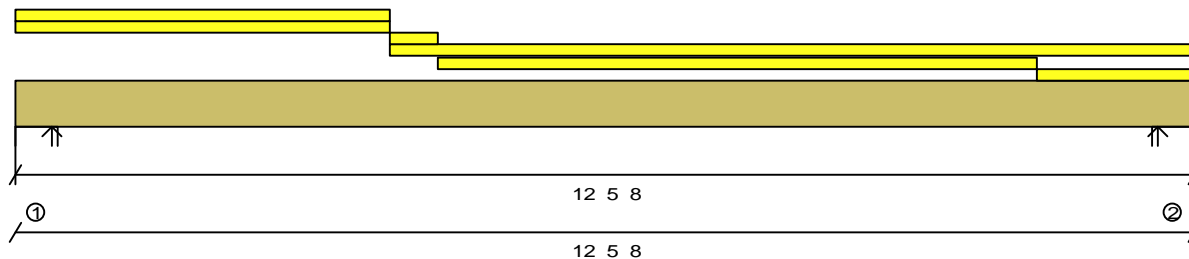
Dead Load: 0 PLF

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads**Type****(Description)**

	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	3' 11.50"		358		144		Live
Replacement Uniform (PLF)	Top	0' 0.00"	3' 11.50"		382		143		Live
Replacement Uniform (PLF)	Top	3' 11.50"	4' 5.50"		358		144		Live
Replacement Uniform (PLF)	Top	3' 11.50"	12' 5.50"		382		143		Live
Replacement Uniform (PLF)	Top	4' 5.50"	10' 9.50"		358		174		Live
Replacement Uniform (PLF)	Top	10' 9.50"	12' 5.50"		358		134		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	N/A	N/A	1.612"	8803#	--
2	12' 5.500"	Wall	N/A	N/A	1.620"	8844#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Dead
1	4324#	1853#
2	4324#	1886#

Design spans

11' 8.250"

**Product: 1 3/4x11 7/8 West Fraser 2.0E-3100F 3 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	25918. #	55200. #	46%	6.23'	Total Load 1.25D+1.5L
Shear	7380. #	20723. #	35%	11.49'	Total Load 1.25D+1.5L
TL Deflection	0.3389"	0.3896"	L/413	6.23'	Total Load D+L
LL Deflection	0.2354"	0.2922"	L/595	6.23'	Total Load L

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loaded beams assumed to be 3.50"

Control: TL Deflection

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

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TOWN OF MILTON
MAR 29, 2017
JUNIPER 6
BUILDING DIVISION

Pass-Thru Framing Squash Block is
required at all point loads over bearingsRefer to Multiple Member Connection
Detail for ply to ply nailing or bolting
requirements

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