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

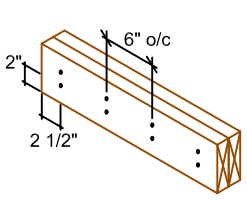
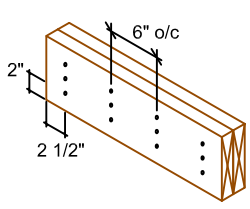
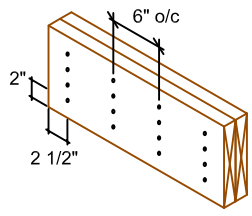
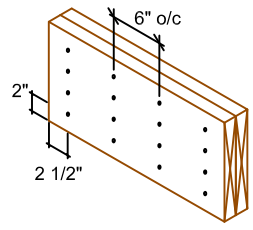
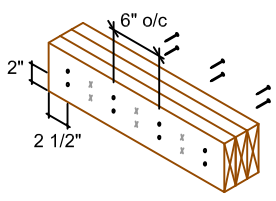
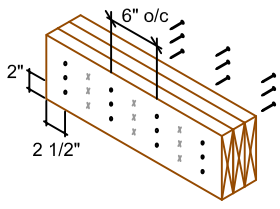
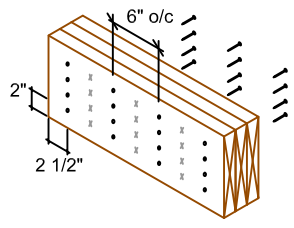
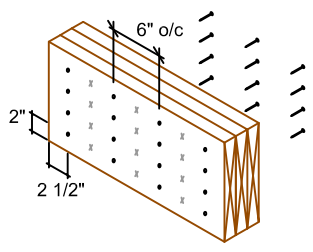
1. The building component used in construction must be the same as indicated on the drawings.
2. The building component must be installed and assembled as per specification shown on the drawing and in accordance with the manufacturer’s assembly and installation.
3. Members consisting of multiple plies 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.

MULTIPLE MEMBER CONNECTIONS

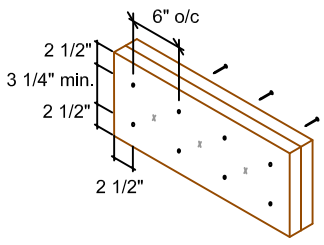
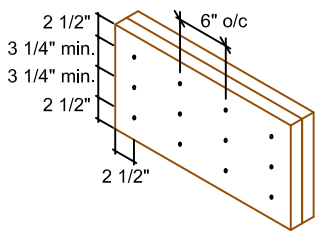
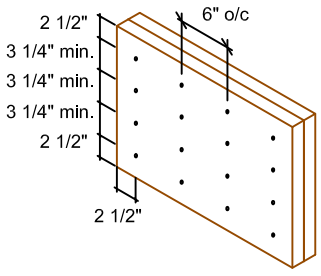
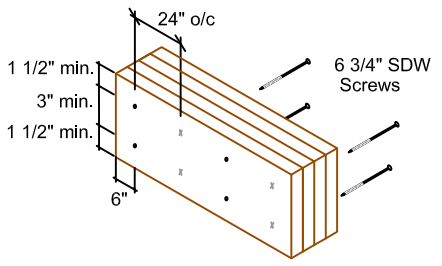
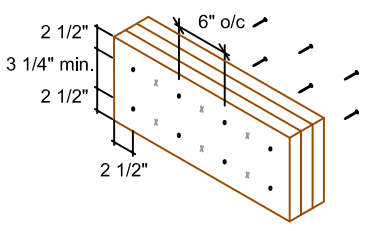
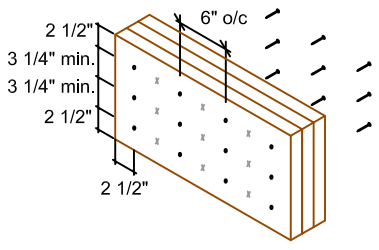
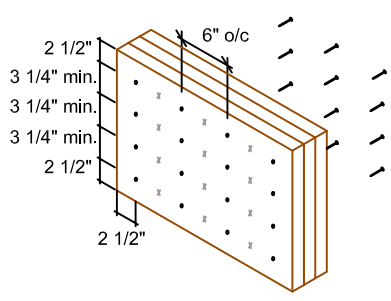
Conventional Connections (for uniform distributed loads)

	2x6	2x8	2x10	2x12
2-ply				
3-ply				

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)

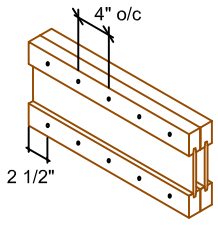
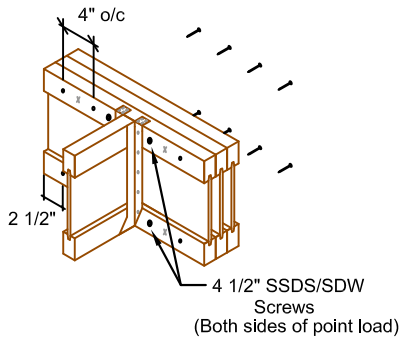
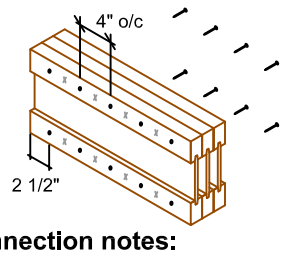
	9 1/2" LVL	11 7/8" - 14" LVL	16"-18" LVL	4-ply (Top load only)
				
				

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

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.

Vertical I-Joist Connections (for uniform distributed loads)

	9 1/2" - 11 7/8" I-Joist	3-ply I-Joist w/ point load (Joist Hanger)
2-ply		
3-ply		

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.

MULTI -PLY CONNECTION DETAILS

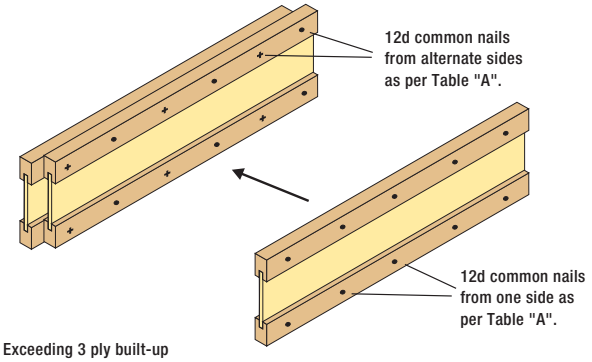
Date: November 30, 2016

Scale: NTS

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

MULTIPLE PLIES

NJ SERIES



Exceeding 3 ply built-up members is not permitted.

BACKER AND FILLER BLOCK REQUIREMENTS

Joist Type	Backer Block Dimensions Thickness	Backer Block Dimensions Depth	Filler Block Dimensions Thickness	Filler Block Dimensions depth
NJ925	1/2"	4-1/8"	1-1/8"	4-1/8"
NJ10	1/2"	4-3/8"	1-1/8"	4-3/8"
NJ12	1/2"	6-3/4"	1-1/8"	6-3/4"
NJH10	1"	6-3/8"	2-1/8"	5-1/2"
NJH12	1"	8-3/4"	2-1/8"	7-1/4"
NJH14	1"	10-7/8"	2-1/8"	9-1/4"
NJH16	1"	12-7/8"	2-1/8"	11-1/4"
NJU10	1-1/2"	6-3/8"	3"	5-1/2"
NJU12	1-1/2"	8-3/4"	3"	7-1/4"
NJU14	1-1/2"	10-7/8"	3"	9-1/4"
NJU16	1-1/2"	12-7/8"	3"	11-1/4"

NJH / NJU SERIES

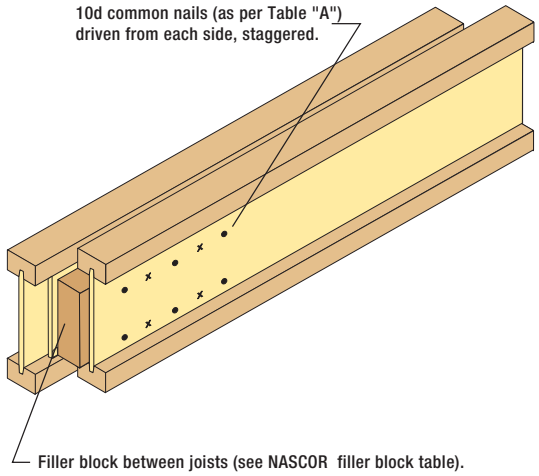


TABLE A

Nail Spacing	Transfer Load
16" o/c	135 plf
12" o/c	181 plf
8" o/c	271 plf
6" o/c	362 plf

***unfactored

ADHESIVE

A 1/4" continuous bead of adhesive meeting APA AFG-01 applied to the top and bottom chord provides 300 PLF (unfactored) of transfer capacity.

NOTES ON LOAD TRANSFERS

SIDE LOADED BEAMS

- Beams that have loads where 60% or more of the load is from one side shall be considered to be loaded from one side only.
- Fasteners, adhesive or fasteners & adhesive must be able to transfer:

LOAD FROM ONE SIDE ONLY

75% of the total load for 2 ply members
84% of the total load for 3 ply members

LOAD FROM BOTH SIDES

45% of the total load for 2 ply members
50% of the total load for 3 ply members

EXAMPLE

Determine the connection required for a 2 ply NJ10 that carries a 600 PLF (unfactored) load from one side only.

Step 1

For a 2 ply beam the connection must be able to transfer 75% of the total load.
75% x 600 PLF = 450 PLF (unfactored)

Step 2

Table A shows that nails alone can not transfer the load.
nails @ 6" o.c = 362 PLF < 450 PLF (unfactored)
Therefore, adhesive is required.

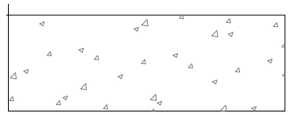
Step 3

Determine the required nail spacing. Adhesive alone transfers 300 PLF (unfactored). Nails must transfer:
450 PLF - 300 PLF = 150 PLF (unfactored)

From Table A, nails @ 12" o.c. can transfer
181 PLF > 150 PLF (unfactored)

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

Type	Qty.	Product	Length
J1	11	NJH12	18' 0"
J2	14	NJH12	16' 0"
J3	5	NJH12	14' 0"
J4	11	NJH12	12' 0"
J5	4	NJH12	4' 0"
J6	10	NJH12	2' 0"
J9	24	NJ60H12	18' 0"
G1	2	NJ12	4' 0"
G2	2	NJ12	4' 0"
G3	1	NJH12	2' 0"
G4	1	NJH12	2' 0"
G5	1	1 3/4x11 7/8 West Fraser 2.0E-	6' 0"
G6	1	1 3/4x11 7/8 West Fraser 2.0E-	6' 0"
G7	1	1 3/4x11 7/8 West Fraser 2.0E-	6' 0"
G8	2	NJ12	4' 0"
G9	2	NJ12	18' 0"
G10	2	NJ12	18' 0"
G11	2	NJ12	16' 0"
G12	2	NJ12	16' 0"
G13	2	NJ12	18' 0"
G14	1	1 3/4x11 7/8 West Fraser 2.0E-	12' 0"
G15	2	1 3/4x11 7/8 West Fraser 2.0E-	12' 0"
R1	17	11 7/8" RIMBOARD	12' 0"



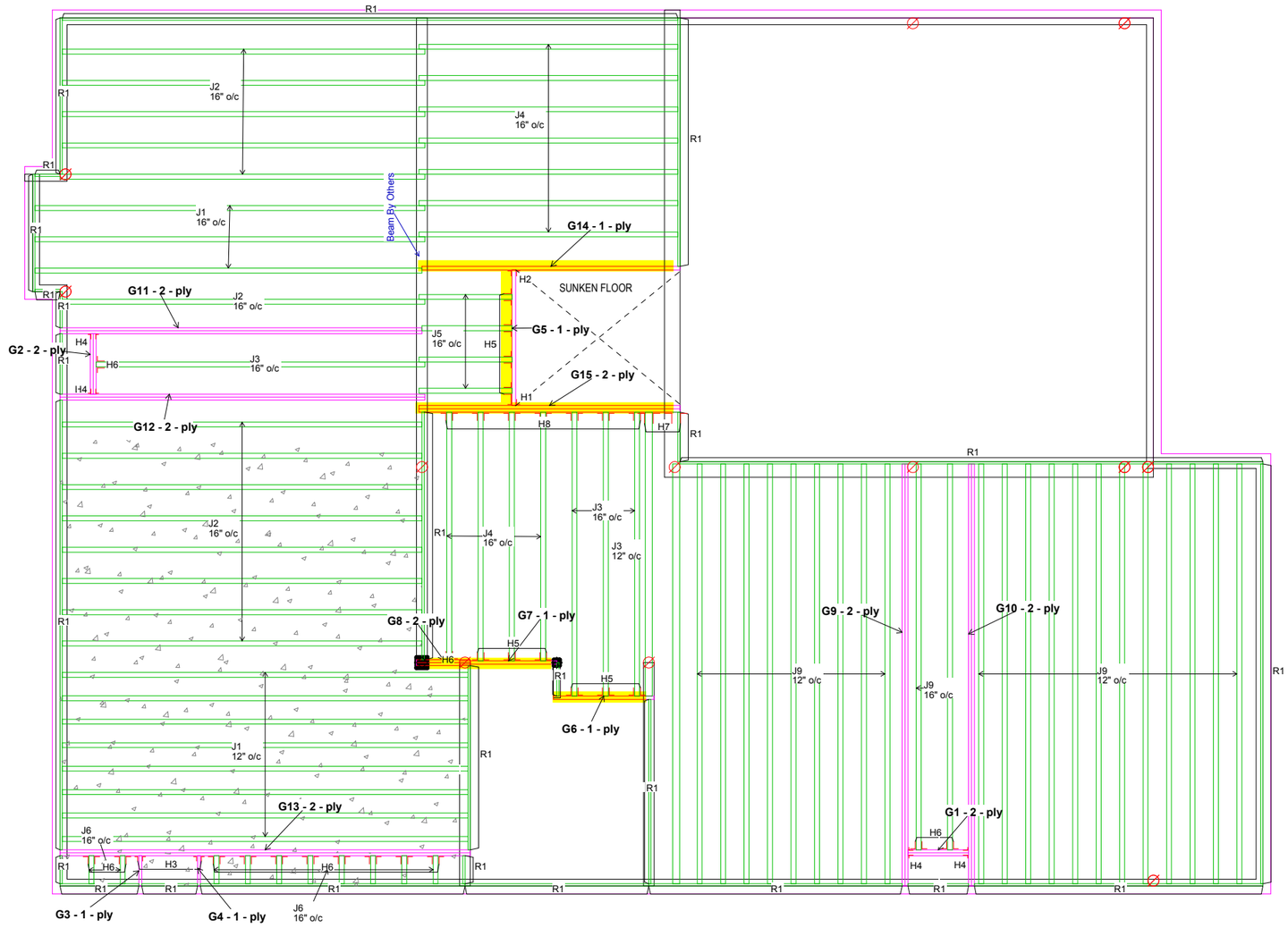
HATCH AREA INDICATED REPRESENTS CERAMIC TILED FLOOR WITH AN ADDITIONAL DEAD LOAD OF 5.00 PSF

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

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

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

ID#	Qty	Model Number
H1	1	HUS1.81/10
H2	1	HUS1.81/10
H3	2	LT151188
H4	4	LT2-151188
H5	10	LT251188
H6	14	LT251188
H8	8	LT251188



FIRST FLOOR FRAMING

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: (None)

All Loads are UN-FACTORED Loads

NOTES:
1. Framer 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.

TOWN OF MILTON
PLANNING AND DEVELOPMENT
JUNIPER 8 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 relives 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 on Ontario, By-laws of the Region of Halton and Town of Milton

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 8
BUILDING DIVISION

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

Project Tag:
JUNIPER 8 EL 1

GREEN PARK HOMES
LECCO RIDGE
MILTON,ON

SALESMAN: RM

Time: 12:32 PM
DATE: 10/31/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

File: D:\SAUMIL\GREENPARK HOMES\JUNIPER 8\JUNIPER 8-1\F- JU 8 EL 1\flr JU 8 el 1.L05

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

Type	Qty.	Product	Length
J1	11	NJH12	18' 0"
J2	14	NJH12	16' 0"
J3	5	NJH12	14' 0"
J4	11	NJH12	12' 0"
J5	1	NJH12	8' 0"
J6	4	NJH12	4' 0"
J7	10	NJH12	2' 0"
J8	23	NJ60H12	18' 0"
G1	2	NJ12	4' 0"
G2	2	NJ12	4' 0"
G3	1	NJH12	2' 0"
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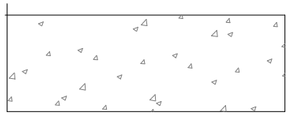

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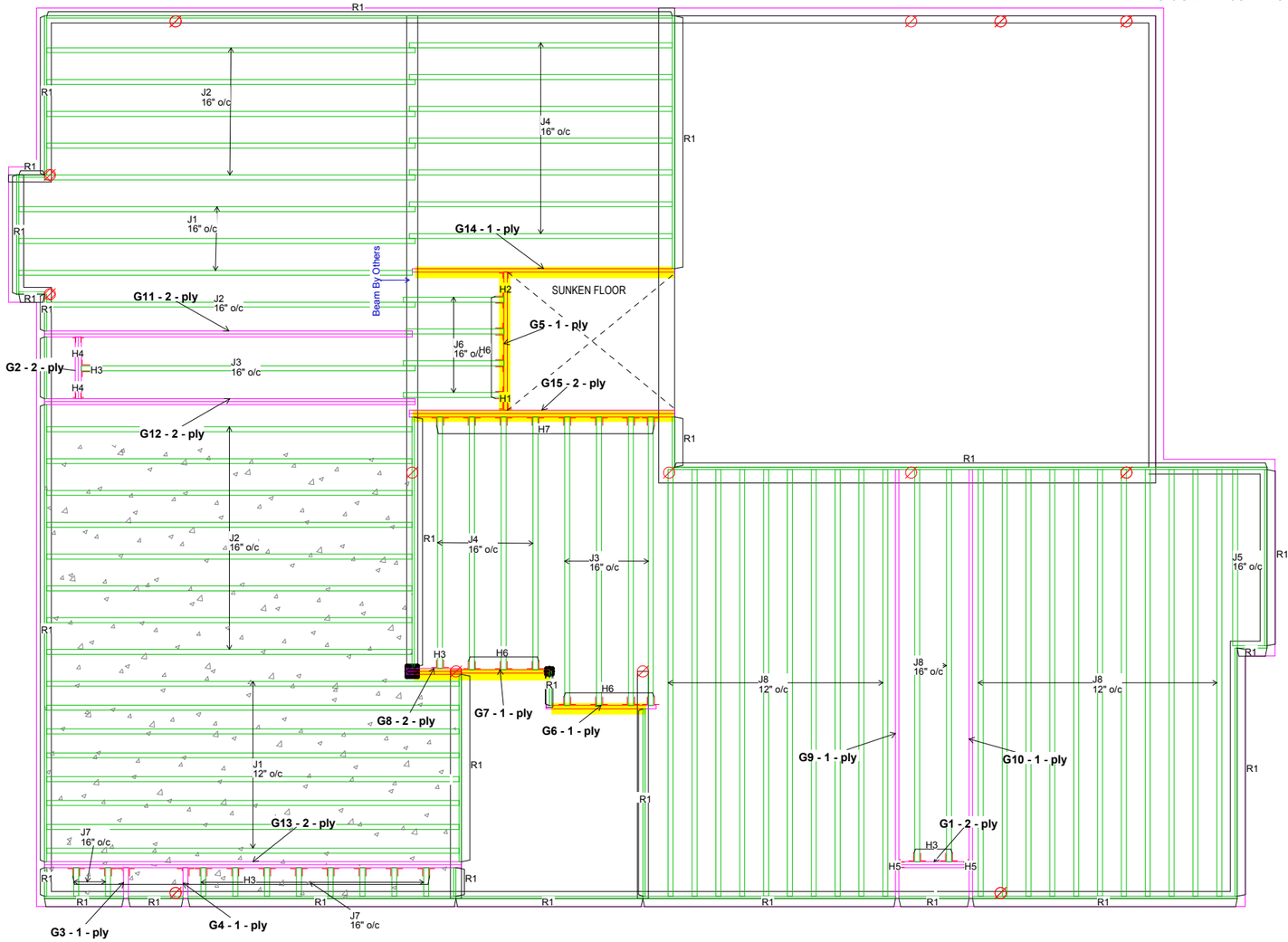

FIRST FLOOR FRAMING

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H3	16	LT251188
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Rim parallel to joists: 1-1/8" rimboard with 2"x4" block (1/16" longer than rim depth) @ 16" o/c.
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DESIGN ASSUMPTIONS
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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: (None)

All Loads are UN-FACTORED Loads

NOTES:
1. Framer 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.
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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.

TOWN OF MILTON
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RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 8
BUILDING DIVISION

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

Project Tag:

JUNIPER 8 EL 2

GREEN PARK HOMES
LECCO RIDGE
MILTON,ON

SALESMAN: RM

Time: 10:46 AM
DATE: 11/04/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

File: D:\SAUMIL\GREENPARK HOMES\JUNIPER 8\JUNIPER 8-2\F- JU 8 EL 2\flr JU 8 el 2.L05

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

Type	Qty.	Product	Length
J1	12	NJH12	18' 0"
J2	14	NJH12	16' 0"
J3	4	NJH12	14' 0"
J4	12	NJH12	12' 0"
J5	1	NJH12	8' 0"
J6	4	NJH12	4' 0"
J7	10	NJH12	2' 0"
J8	23	NJ60H12	18' 0"
G1	2	NJ12	4' 0"
G2	2	NJ12	4' 0"
G3	1	NJH12	2' 0"
G4	1	NJH12	2' 0"
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G7	1	1 3/4x11 7/8 West Fraser 2.0E-	6' 0"
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G9	2	NJ12	18' 0"
G10	2	NJ12	18' 0"
G11	2	NJ12	16' 0"
G12	2	NJ12	16' 0"
G13	2	NJ12	18' 0"
G14	1	1 3/4x11 7/8 West Fraser 2.0E-	12' 0"
G15	2	1 3/4x11 7/8 West Fraser 2.0E-	12' 0"
R1	17	11 7/8" RIMBOARD	12' 0"

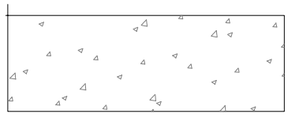
DESIGN ASSUMPTIONS
==========

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: (None)

All Loads are UN-FACTORED Loads

NOTES:
1. Framer 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.



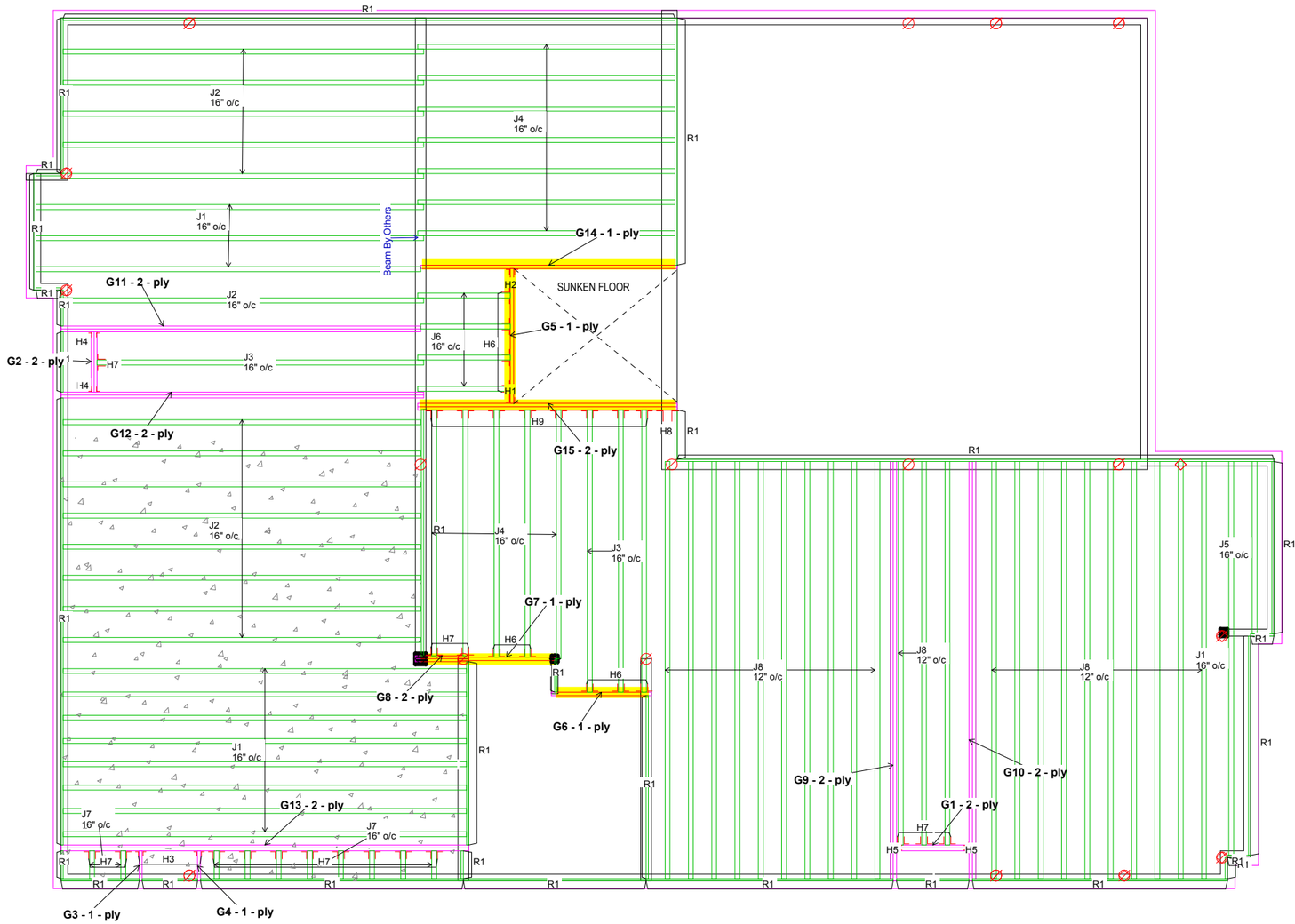
HATCH AREA INDICATED REPRESENTS CERAMIC TILED FLOOR WITH AN ADDITIONAL DEAD LOAD OF 5.00 PSF

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

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

----- Connector List ----

ID#	Qty	Model Number
H1	1	HUS1.81/10
H2	1	HUS1.81/10
H3	2	LT151188
H4	2	LT2-151188
H5	2	LT2-151188
H6	9	LT251188
H7	16	LT251188
H9	8	LT251188



FIRST FLOOR FRAMING

TOWN OF MILTON
PLANNING AND DEVELOPMENT
JUNIPER 8 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 relives 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 on Ontario, By-laws of the Region of Halton and Town of Milton

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

Project Tag:

JUNIPER 8 EL 3

GREEN PARK HOMES
LECCO RIDGE
MILTON,ON

SALESMAN: RM

Time: 09:03 AM
DATE: 11/01/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

File: D:\SAUMIL\GREENPARK HOMES\JUNIPER 8\JUNIPER 8-3\F- JU 8 EL 3\flr JU 8 el 3.L05

Member Data

Description: CalcG1
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

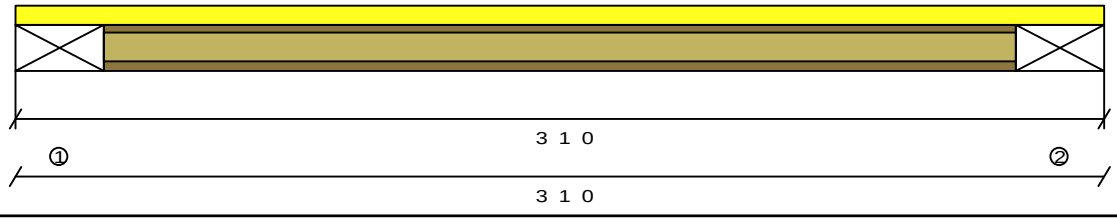
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

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"	3' 1.00"		333		125		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	848#	--
2	3' 1.000"	Girder	N/A	N/A	N/A	848#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	431#	161#
2	431#	161#

Design spans
2' 7.000"

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	547.'#	9020.'#	6%	1.54'	Total Load 1.25D+1.5L
Shear	848.#	3400.#	24%	0'	Total Load 1.25D+1.5L
TL Deflection	0.0042"	0.0861"	L/999+	1.54'	Total Load D+L
LL Deflection	0.0030"	0.0646"	L/999+	1.54'	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 ir

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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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100136551
March 23rd, 2017
PROVINCE OF ONTARIO

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

KOTT

Member Data

Description: CalcG2
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

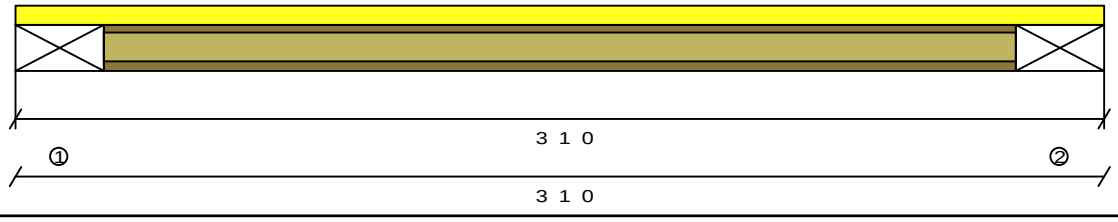
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	3' 1.00"		280		105		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	712#	--
2	3' 1.000"	Girder	N/A	N/A	N/A	712#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	362#	136#
2	362#	136#

Design spans
2' 7.000"

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	460.'#	9020.'#	5%	1.54'	Total Load 1.25D+1.5L
Shear	712.#	3400.#	20%	0'	Total Load 1.25D+1.5L
TL Deflection	0.0035"	0.0861"	L/999+	1.54'	Total Load D+L
LL Deflection	0.0025"	0.0646"	L/999+	1.54'	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 ir

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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

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

KOTT

Member Data

Description: CalcG3
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

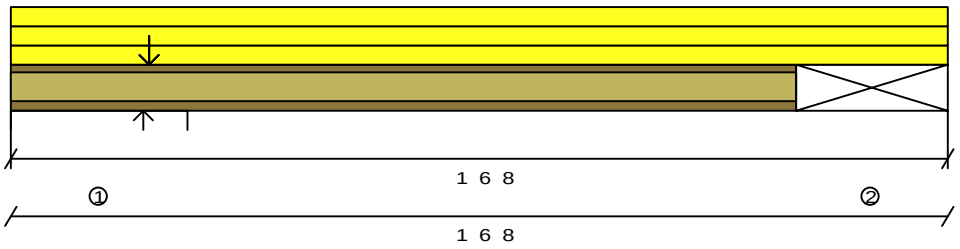
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
0.720" max. LL

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Additional Uniform (PLF)	Top	0' 0.00"	1' 6.50"		0		7		Live
Replacement Uniform (PLF)	Top	0' 0.00"	1' 6.50"		9		3		Live
Replacement Uniform (PLF)	Top	0' 0.00"	1' 6.50"		27		10		Live
Point (LBS)	Top	0' 2.75"			29		11		Live
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			32		75		Snow



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravi Upli
1	0' 0.000"	Wall	N/A	N/A	1.500"	289#	--
2	1' 6.500"	Girder	N/A	N/A	N/A	42#	--

Maximum Unfactored Load Case Reactions

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

	Live	Snow	Dead
1	48#	32#	161#
2	19#	0#	11#

Design spans
1' 0.875"

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PAUL TREVISAN
100136551
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Product: NJH12 1 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	11.'#	5390.'#	0%	0.76'	Total Load 1.25D+1.5L
End Reaction	289.#	1735.#	16%	0'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.0010"	0.0358"	L/999+	0.76'	Total Load D+L
LL Deflection	0.0010"	0.0268"	L/999+	0.76'	Total Load L

(Actual is factored load effects, Limit is design resistance)
Control: Max End React.
Shear cannot be calculated because member`s length is less then 2d.
Web stiffener and minimum bearing length requirements at hangared 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: CalcG4
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

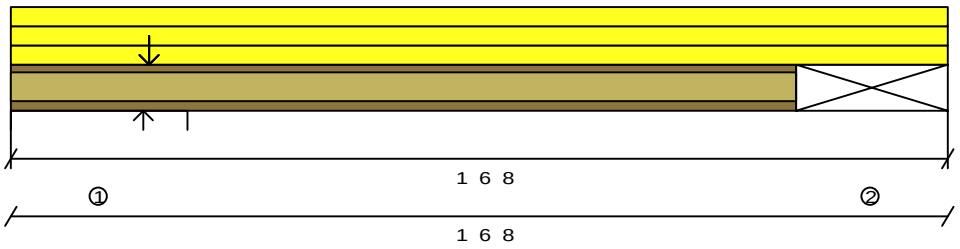
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
0.720" max. LL

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Additional Uniform (PLF)	Top	0' 0.00"	1' 6.50"		0		7		Live
Replacement Uniform (PLF)	Top	0' 0.00"	1' 6.50"		9		3		Live
Replacement Uniform (PLF)	Top	0' 0.00"	1' 6.50"		27		10		Live
Point (LBS)	Top	0' 2.75"			29		11		Live
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			32		75		Snow



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"	289#	--
2	1' 6.500"	Girder	N/A	N/A	N/A	42#	--

Maximum Unfactored Load Case Reactions

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

	Live	Snow	Dead
1	48#	32#	161#
2	19#	0#	11#

Design spans
1' 0.875"

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March 23rd, 2017
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Product: NJH12 1 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	11.'#	5390.'#	0%	0.76'	Total Load 1.25D+1.5L
End Reaction	289.#	1735.#	16%	0'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.0010"	0.0358"	L/999+	0.76'	Total Load D+L
LL Deflection	0.0010"	0.0268"	L/999+	0.76'	Total Load L

(Actual is factored load effects, Limit is design resistance)
Control: Max End React.
Shear cannot be calculated because member`s length is less then 2d.
Web stiffener and minimum bearing length requirements at hangared 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: CalcG5
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

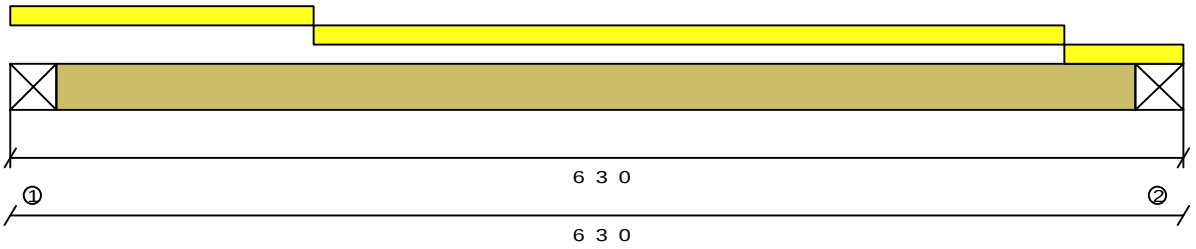
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
0.720" max. LL
Member Weight: 5.9 PLF

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	1' 7.50"		78		29		Live
Replacement Uniform (PLF)	Top	1' 7.50"	5' 7.50"		78		29		Live
Replacement Uniform (PLF)	Top	5' 7.50"	6' 3.00"		78		29		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	465#	--
2	6' 3.000"	Girder	N/A	N/A	N/A	465#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	225#	101#
2	225#	101#

Design spans
5' 9.000"

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	668.'#	17693.'#	3%	3.12'	Total Load 1.25D+1.5L
Shear	305.#	6908.#	4%	0.26'	Total Load 1.25D+1.5L
TL Deflection	0.0083"	0.1917"	L/999+	3.12'	Total Load D+L
LL Deflection	0.0057"	0.1437"	L/999+	3.12'	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 hangared connections depend on the connection style and are not included in this design.

LICENSED PROFESSIONAL ENGINEER
P.M. TREVISAN
100136551
March 23rd, 2017
PROVINCE OF ONTARIO

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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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14 Anderson Blvd.
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Member Data

Description: CalcG6
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

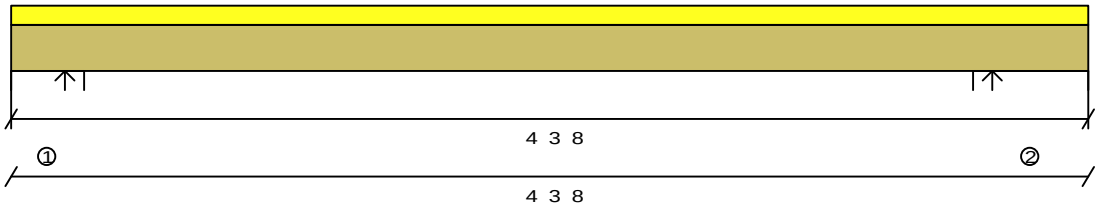
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
0.720" max. LL
Member Weight: 5.9 PLF

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	4' 3.50"		486		182		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"	1779#	--
2	4' 3.500"	Wall	N/A	N/A	1.500"	1779#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	897#	347#
2	897#	347#

Design spans
3' 8.250"

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	1640.'#	17693.'#	9%	2.06'	Total Load 1.25D+1.5L
Shear	824.#	6908.#	11%	2.98'	Total Load 1.25D+1.5L
TL Deflection	0.0121"	0.1229"	L/999+	2.06'	Total Load D+L
LL Deflection	0.0087"	0.0922"	L/999+	2.06'	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

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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

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

Member Data

Description: CalcG7
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

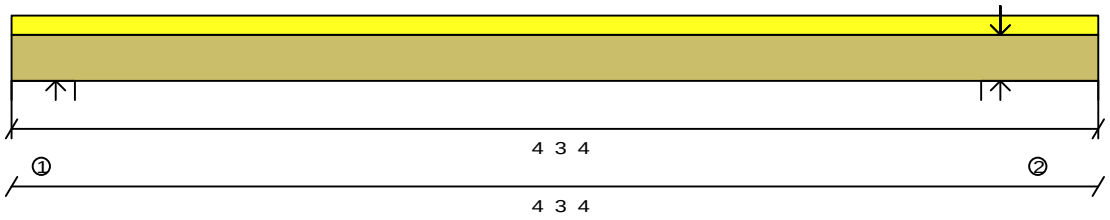
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
0.720" max. LL
Member Weight: 5.9 PLF

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	4' 3.25"		456		171		Live
Point (LBS)	Top	3' 10.63"			276		136		Live
Point (LBS)	Top	3' 10.63"			888		388		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"	1679#	--
2	4' 3.250"	Wall	N/A	N/A	2.242"	4080#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	846#	328#
2	2010#	852#

Design spans
3' 8.500"

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	1557.'#	17693.'#	8%	2.03'	Total Load 1.25D+1.5L
Shear	783.#	6908.#	11%	2.96'	Total Load 1.25D+1.5L
TL Deflection	0.0116"	0.1236"	L/999+	2.03'	Total Load D+L
LL Deflection	0.0083"	0.0927"	L/999+	2.03'	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

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100136551
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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

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

KOTT

Member Data

Description: CalcG8
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

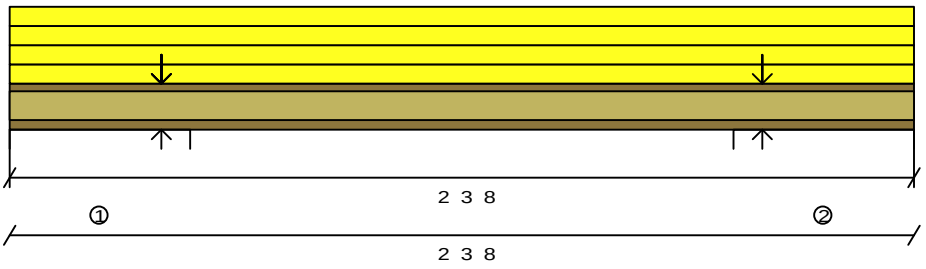
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Additional Uniform (PLF)	Top	0' 0.00"	2' 3.50"		0		7		Live
Replacement Uniform (PLF)	Top	0' 0.00"	2' 3.50"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	2' 3.50"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	2' 3.50"		436		204		Live
Point (LBS)	Top	0' 4.63"			21		8		Live
Point (LBS)	Top	0' 4.63"			0		32		Live
Point (LBS)	Top	0' 4.63"			247		93		Live
Point (LBS)	Top	1' 10.88"			276		136		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"	1346#	--
2	2' 3.500"	Wall	N/A	N/A	1.500"	1362#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	640#	308#
2	648#	311#

Design spans
1' 6.250"

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RAM TREVISAN
100136551
March 23rd, 2017
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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	296.'#	9020.'#	3%	1.15'	Total Load 1.25D+1.5L
End Reaction	1362.#	4100.#	33%	2.29'	Total Load 1.25D+1.5L
TL Deflection	0.0019"	0.0507"	L/999+	1.15'	Total Load D+L
LL Deflection	0.0013"	0.0380"	L/999+	1.15'	Total Load L

(Actual is factored load effects, Limit is design resistance)
Control: Max End React.
Shear cannot be calculated because member`s length is less then 2d.
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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Member Data

Description: CalcG9
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

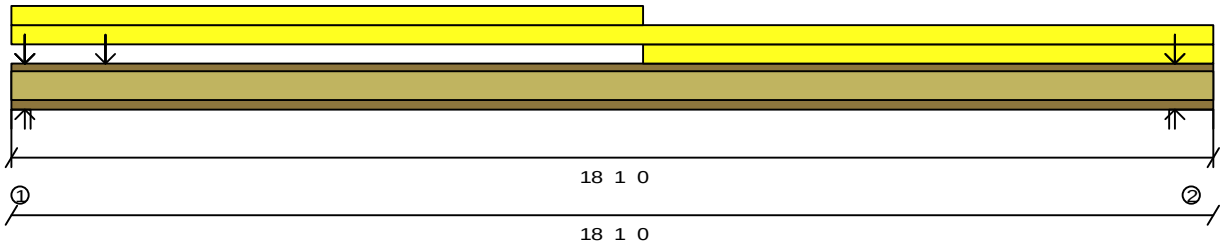
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	9' 6.25"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	18' 1.00"		27		10		Live
Replacement Uniform (PLF)	Top	9' 6.25"	18' 1.00"		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"			571		364		Live
Point (LBS)	Top	1' 5.00"			472		197		Live
Point (LBS)	Top	17' 5.88"			43		81		Live
Point (LBS)	Top	17' 5.88"			571		214		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"	3301#	--
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	1471#	65#	849#
2	1107#	0#	481#

Design spans
17' 3.250"

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R.M. TREVISAN
100136551
March 23rd, 2017
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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

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	4505.'#	9020.'#	49%	7.99'	Total Load 1.25D+1.5L
Shear	1795.#	3400.#	52%	0'	Total Load 1.25D+1.5L
End Reaction	3301.#	4100.#	80%	0'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.3723"	0.5757"	L/556	8.85'	Total Load D+L
LL Deflection	0.2695"	0.4318"	L/768	8.85'	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
nsulted to determine if web stiffeners are required at point loads

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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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14 Anderson Blvd.
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Member Data

Description: CalcG10
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

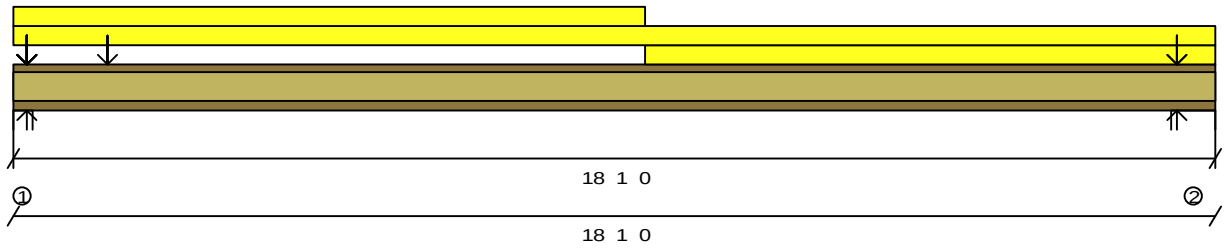
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	9' 6.25"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	18' 1.00"		27		10		Live
Replacement Uniform (PLF)	Top	9' 6.25"	18' 1.00"		27		10		Live
Point (LBS)	Top	0' 2.75"			32		0		Snow
Point (LBS)	Top	0' 2.75"			32		0		Snow
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			286		182		Live
Point (LBS)	Top	0' 2.75"			286		182		Live
Point (LBS)	Top	1' 5.00"			472		197		Live
Point (LBS)	Top	17' 5.88"			43		81		Live
Point (LBS)	Top	17' 5.88"			571		214		Live



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravit Uplif
1	0' 0.000"	Wall	N/A	N/A	1.500"	3301#	--
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	1471#	65#	849#
2	1107#	0#	481#

Design spans
17' 3.250"

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LICENSED PROFESSIONAL ENGINEER
P.M. TREVISAN
100136551
March 23rd, 2017
PROVINCE OF ONTARIO

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	4505.'#	9020.'#	49%	7.99'	Total Load 1.25D+1.5L
Shear	1795.#	3400.#	52%	0'	Total Load 1.25D+1.5L
End Reaction	3301.#	4100.#	80%	0'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.3723"	0.5757"	L/556	8.85'	Total Load D+L
LL Deflection	0.2695"	0.4318"	L/768	8.85'	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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14 Anderson Blvd.
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www.nascor.com

Member Data

Description: CalcG11
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

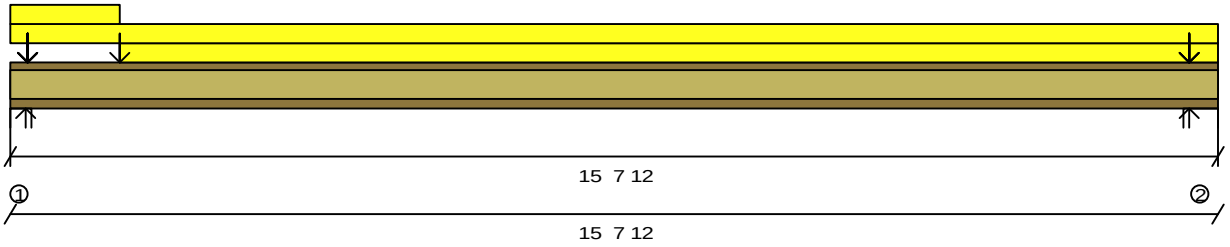
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012

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"	15' 7.75"		27		10		Live
Replacement Uniform (PLF)	Top	1' 5.00"	15' 7.75"		27		10		Live
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			100		0		Snow
Point (LBS)	Top	0' 2.75"			101		80		Live
Point (LBS)	Top	0' 2.75"			426		0		Snow
Point (LBS)	Top	0' 2.75"			436		354		Live
Point (LBS)	Top	1' 5.00"			397		169		Live
Point (LBS)	Top	15' 3.13"			0		65		Live
Point (LBS)	Top	15' 3.13"			345		137		Live
Point (LBS)	Top	15' 3.13"			493		185		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"	3184#	--
2	15' 7.750"	Wall	N/A	N/A	1.500"	2592#	--

Maximum Unfactored Load Case Reactions

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

	Live	Snow	Dead
1	1283#	526#	797#
2	1270#	0#	550#

Design spans
15' 0.500"

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100136551
March 23rd, 2017
PROVINCE OF ONTARIO

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	3457.'#	9020.'#	38%	6.99'	Total Load 1.25D+1.5L
Shear	1491.#	3400.#	43%	0'	Total Load 1.25D+1.5L
End Reaction	3184.#	4100.#	77%	0'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.2219"	0.5014"	L/813	7.74'	Total Load D+L
LL Deflection	0.1604"	0.3760"	L/999+	7.74'	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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14 Anderson Blvd.
Uxbridge, ON
www.nascor.com

Member Data

Description: CalcG12
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

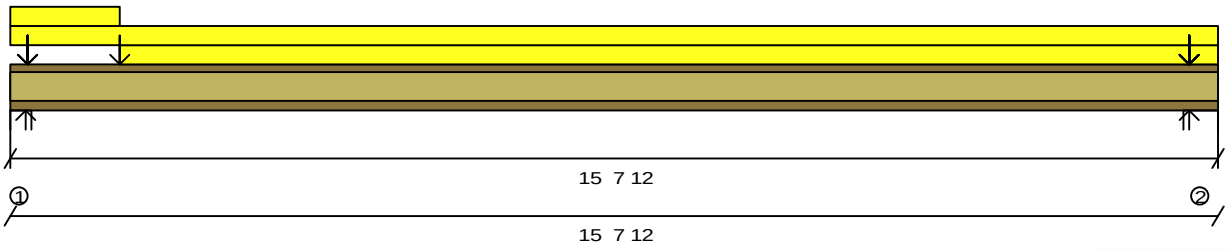
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012

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"	15' 7.75"		27		10		Live
Replacement Uniform (PLF)	Top	1' 5.00"	15' 7.75"		27		10		Live
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			428		0		Snow
Point (LBS)	Top	0' 2.75"			433		343		Live
Point (LBS)	Top	1' 5.00"			397		169		Live
Point (LBS)	Top	15' 3.13"			0		20		Live
Point (LBS)	Top	15' 3.13"			0		53		Live
Point (LBS)	Top	15' 3.13"			108		43		Live
Point (LBS)	Top	15' 3.13"			154		58		Live
Point (LBS)	Top	15' 3.13"			280		111		Live
Point (LBS)	Top	15' 3.13"			401		150		Live



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravit Uplif
1	0' 0.000"	Wall	N/A	N/A	1.500"	2864#	--
2	15' 7.750"	Wall	N/A	N/A	1.500"	2810#	--

Maximum Unfactored Load Case Reactions

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

	Live	Snow	Dead
1	1178#	428#	706#
2	1375#	0#	598#

Design spans
15' 0.500"

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LICENSED PROFESSIONAL ENGINEER
P.M. TREVISAN
100136551
March 23rd, 2017
PROVINCE OF ONTARIO

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	3457.'#	9020.'#	38%	6.99'	Total Load 1.25D+1.5L
Shear	1491.#	3400.#	43%	0'	Total Load 1.25D+1.5L
End Reaction	2864.#	4100.#	69%	0'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.2219"	0.5014"	L/813	7.74'	Total Load D+L
LL Deflection	0.1604"	0.3760"	L/999+	7.74'	Total Load L

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www.nascor.com

Member Data

Description: CalcG13
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

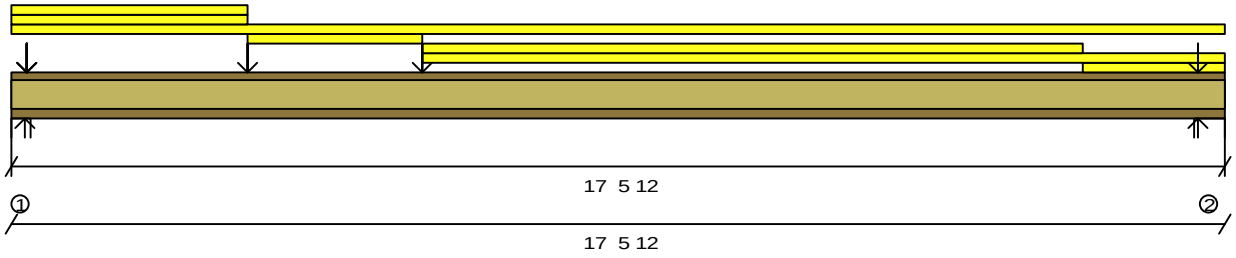
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	3' 5.00"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	3' 5.00"		28		14		Live
Additional Uniform (PLF)	Top	0' 0.00"	17' 5.75"		0		7		Live
Replacement Uniform (PLF)	Top	3' 5.00"	5' 11.00"		9		3		Live
Replacement Uniform (PLF)	Top	5' 11.00"	15' 5.00"		27		10		Live
Replacement Uniform (PLF)	Top	5' 11.00"	17' 5.75"		28		14		Live
Replacement Uniform (PLF)	Top	15' 5.00"	17' 5.75"		27		10		Live
Point (LBS)	Top	0' 2.75"			0		65		Live
Point (LBS)	Top	0' 2.75"			428		0		Snow
Point (LBS)	Top	0' 2.75"			462		354		Live
Point (LBS)	Top	3' 5.00"			0		10		Live
Point (LBS)	Top	5' 11.00"			0		10		Live
Point (LBS)	Top	17' 1.13"			276		136		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"	2295#	--
2	17' 5.750"	Wall	N/A	N/A	1.500"	1549#	--

Maximum Unfactored Load Case Reactions

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

	Live	Snow	Dead
1	841#	428#	656#
2	710#	0#	388#

Design spans
16' 10.500"

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LICENSED PROFESSIONAL ENGINEER
P.M. TREVISAN
100136551
March 23rd, 2017
PROVINCE OF ONTARIO

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	3839.'#	9020.'#	42%	9.5'	Total Load 1.25D+1.5L
Shear	965.#	3400.#	28%	17.48'	Total Load 1.25D+1.5L
End Reaction	2295.#	4100.#	55%	0'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.2998"	0.5625"	L/675	8.66'	Total Load D+L
LL Deflection	0.1866"	0.4219"	L/999+	8.66'	Total Load L

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14 Anderson Blvd.
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www.nascor.com

Member Data

Description: CalcG14
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

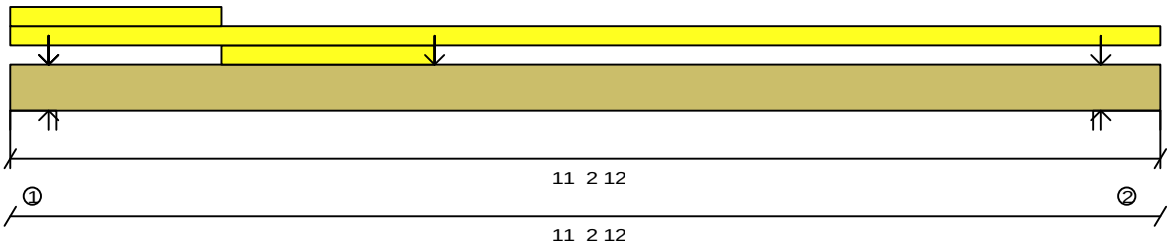
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
Member Weight: 5.9 PLF

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	2' 0.75"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	11' 2.75"		27		10		Live
Replacement Uniform (PLF)	Top	2' 0.75"	4' 1.75"		27		10		Live
Point (LBS)	Top	0' 4.63"			0		65		Live
Point (LBS)	Top	0' 4.63"			345		137		Live
Point (LBS)	Top	0' 4.63"			493		211		Live
Point (LBS)	Top	4' 1.75"			235		130		Live
Point (LBS)	Top	10' 7.63"			335		180		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"	2566#	--
2	11' 2.750"	Wall	N/A	N/A	1.500"	1259#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	1205#	606#
2	576#	316#

Design spans
10' 3.000"

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	2192.'#	17693.'#	12%	4.15'	Total Load 1.25D+1.5L
Shear	683.#	6908.#	9%	0.4'	Total Load 1.25D+1.5L
TL Deflection	0.0609"	0.3417"	L/999+	5.51'	Total Load D+L
LL Deflection	0.0393"	0.2562"	L/999+	5'	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

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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.com

Member Data

Description: CalcG15
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

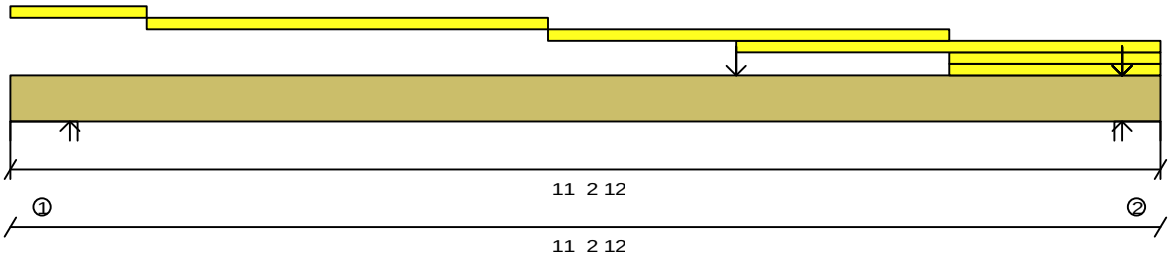
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
Member Weight: 11.8 PLF

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	1' 4.00"		407		153		Live
Replacement Uniform (PLF)	Top	1' 4.00"	5' 3.00"		246		92		Live
Replacement Uniform (PLF)	Top	5' 3.00"	9' 2.00"		216		81		Live
Replacement Uniform (PLF)	Top	7' 1.00"	11' 2.75"		27		10		Live
Replacement Uniform (PLF)	Top	9' 2.00"	11' 2.75"		27		10		Live
Replacement Uniform (PLF)	Top	9' 2.00"	11' 2.75"		216		81		Live
Point (LBS)	Top	7' 1.00"			235		130		Live
Point (LBS)	Top	10' 10.13"			0		32		Live
Point (LBS)	Top	10' 10.13"			0		32		Live
Point (LBS)	Top	10' 10.13"			172		68		Live
Point (LBS)	Top	10' 10.13"			172		68		Live
Point (LBS)	Top	10' 10.13"			247		93		Live
Point (LBS)	Top	10' 10.13"			247		93		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"	2928#	--
2	11' 2.750"	Wall	N/A	N/A	1.500"	4637#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	1439#	615#
2	2254#	1004#

Design spans
10' 3.000"

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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P.M. TREVISAN
100136551
March 23rd, 2017
PROVINCE OF ONTARIO

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.

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	7364.'#	35386.'#	20%	6.23'	Total Load 1.25D+1.5L
Shear	2357.#	13815.#	17%	10.33'	Total Load 1.25D+1.5L
TL Deflection	0.1145"	0.3417"	L/999+	5.72'	Total Load D+L
LL Deflection	0.0796"	0.2562"	L/999+	5.72'	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

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

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

Type	Qty.	Product	Length
J1	9	NJH12	18' 0"
J2	23	NJH12	16' 0"
J3	32	NJH12	12' 0"
J4	21	NJH12	10' 0"
J5	25	NJ60H12	18' 0"
G1	1	1 3/4x11 7/8 West Fraser 2.0E-	10' 0"
G2	1	1 3/4x11 7/8 West Fraser 2.0E-	12' 0"
G3	2	NJ12	12' 0"
R1	18	11 7/8" RIMBOARD	12' 0"

------- Miscellaneous Materials -------

Type	Qty.	Product	Length
XXX	1	NJH12	6' 0"

All product names are trademarks of their respective owners

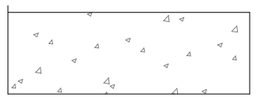
DESIGN ASSUMPTIONS
==========

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. Framer 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.



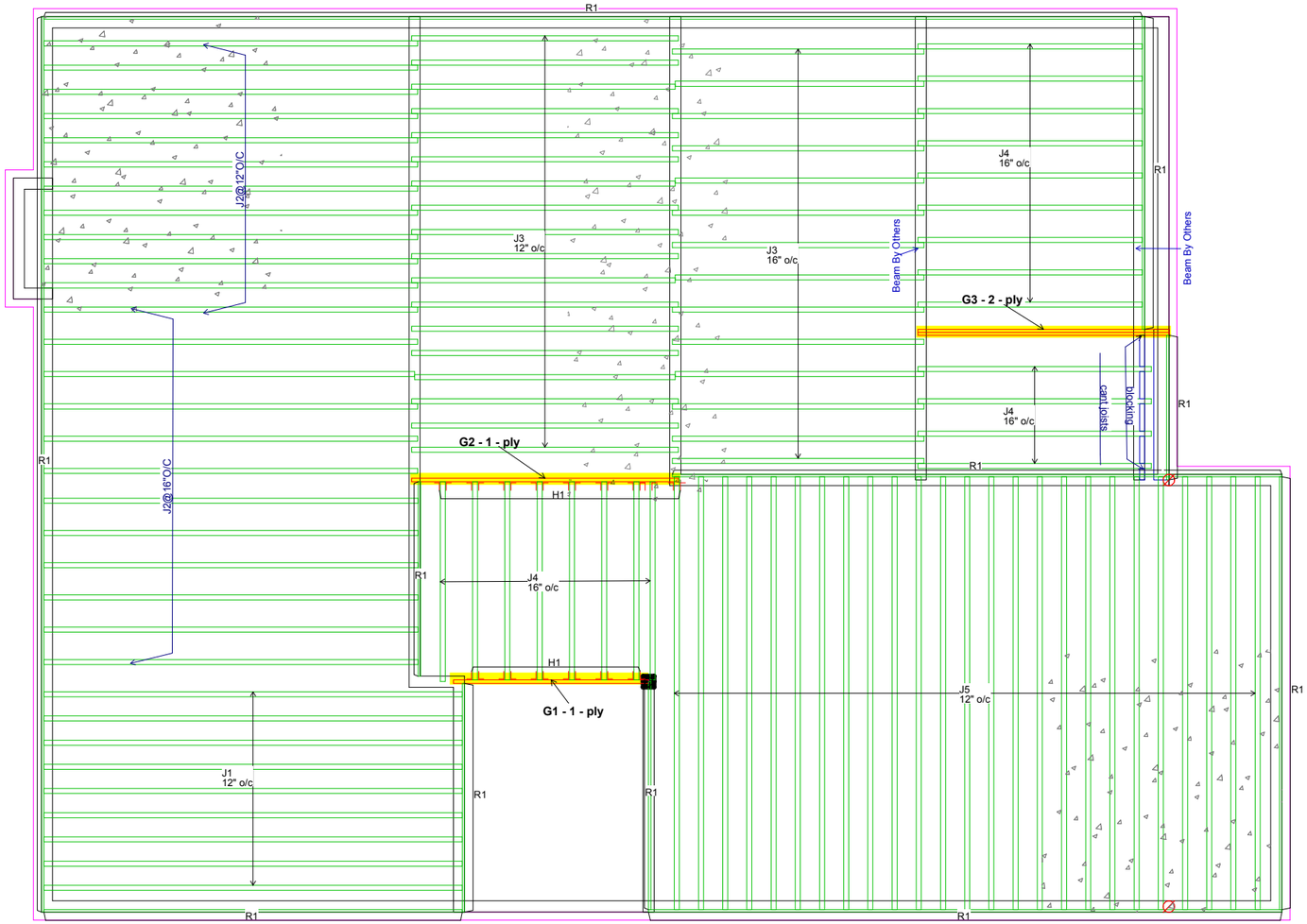
HATCH AREA INDICATED REPRESENTS CERAMIC TILED FLOOR WITH AN ADDITIONAL DEAD LOAD OF 5.00 PSF

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

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

----- Connector List ----

ID#	Qty	Model Number
H1	15	LT251188



SECOND FLOOR FRAMING

TOWN OF MILTON
PLANNING AND DEVELOPMENT
JUNIPER 8 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 relives 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 on Ontario, By-laws of the Region of Halton and Town of Milton

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Project Tag:

JUNIPER 8 EL 1

GREEN PARK HOMES
LECCO RIDGE
MILTON,ON

SALESMAN: RM

Time: 01:36 PM
DATE: 10/31/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

File: D:\SAUMIL\GREENPARK HOMES\JUNIPER 8\JUNIPER 8-2\F- JU 8 EL 2\flr JU 8 el 2.L10

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

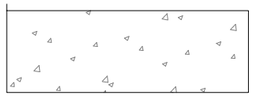
Type	Qty.	Product	Length
J1	9	NJH12	18' 0"
J2	23	NJH12	16' 0"
J3	32	NJH12	12' 0"
J4	22	NJH12	10' 0"
J5	1	NJH12	8' 0"
J6	24	NJ60H12	18' 0"
G1	1	1 3/4x11 7/8 West Fraser 2.0E-	10' 0"
G2	1	1 3/4x11 7/8 West Fraser 2.0E-	12' 0"
R1	18	11 7/8" RIMBOARD	12' 0"

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

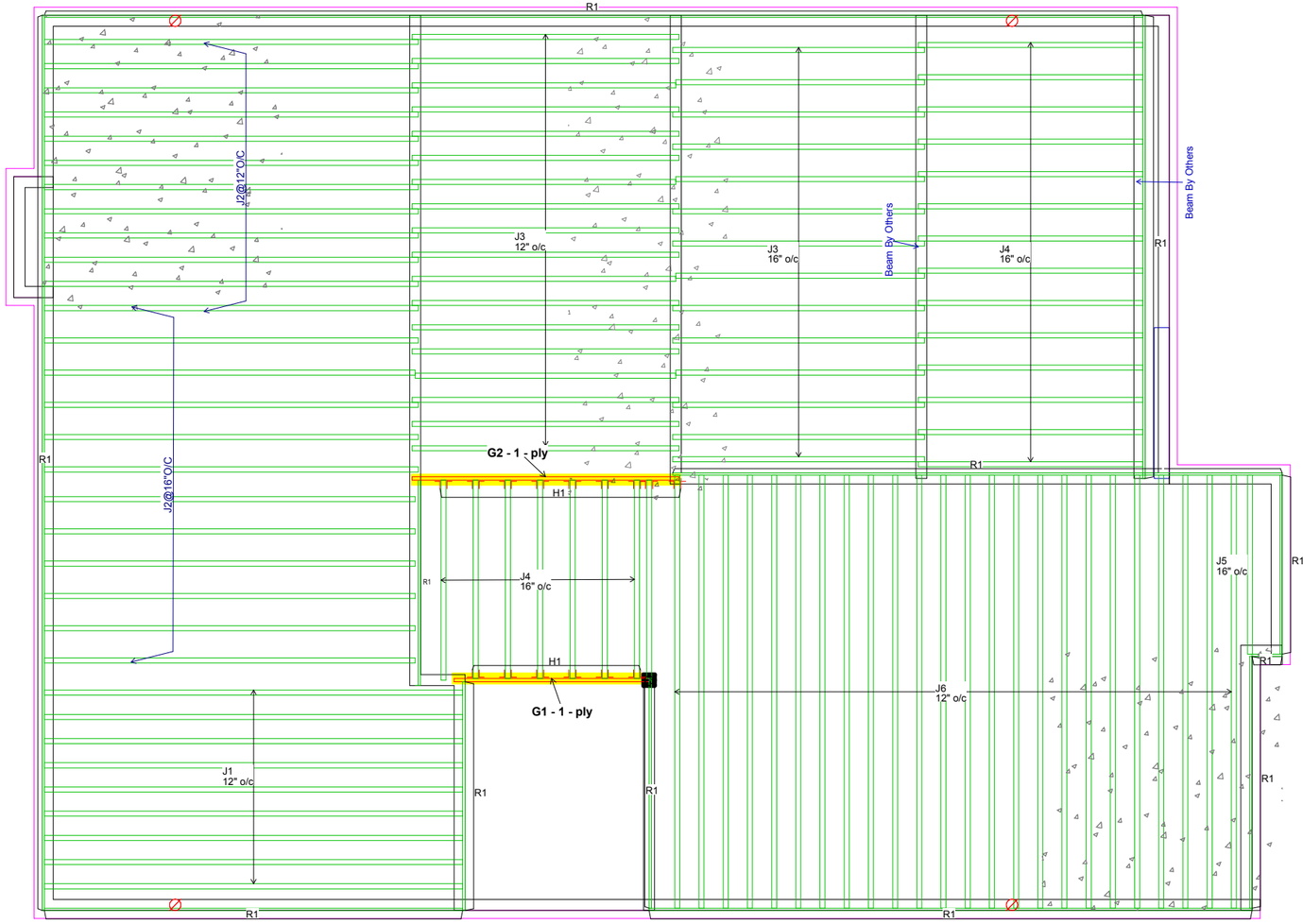
NOTES:
1. Framer to verify dimensions on the architectural drawings.
2. Double joist only require filler/backer ply when supporting another member using a face-mounted hanger.
3. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls.
4. Install single-ply flush window header along inside 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

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

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



SECOND FLOOR FRAMING

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.

----- Connector List ----

ID#	Qty	Model Number
H1	15	LT251188

TOWN OF MILTON
PLANNING AND DEVELOPMENT
JUNIPER 8 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 relives 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 on Ontario, By-laws of the Region of Halton and Town of Milton

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Project Tag:
JUNIPER 8 EL 2

GREEN PARK HOMES
LECCO RIDGE
MILTON,ON

SALESMAN: RM

Time: 02:36 PM
DATE: 10/31/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

File: D:\SAUMIL\GREENPARK HOMES\JUNIPER 8\JUNIPER 8-2\F- JU 8 EL 2\flr JU 8 el 2.L10

Member Data

Description: CalcG1
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

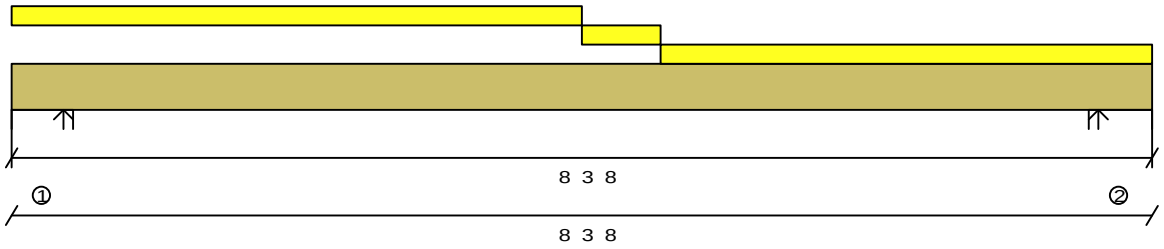
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
Member Weight: 5.9 PLF

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	4' 1.75"		167		63		Live
Replacement Uniform (PLF)	Top	4' 1.75"	4' 8.75"		407		153		Live
Replacement Uniform (PLF)	Top	4' 8.75"	8' 3.50"		407		153		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"	1706#	--
2	8' 3.500"	Wall	N/A	N/A	1.500"	2595#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	852#	342#
2	1304#	512#

Design spans
7' 6.250"

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	4165.'#	17693.'#	23%	4.72'	Total Load 1.25D+1.5L
Shear	1795.#	6908.#	25%	7.15'	Total Load 1.25D+1.5L
TL Deflection	0.0747"	0.2507"	L/999+	4.16'	Total Load D+L
LL Deflection	0.0535"	0.1880"	L/999+	4.16'	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

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100136551
March 23rd, 2017
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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

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

KOTT

Member Data

Description: CalcG2
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

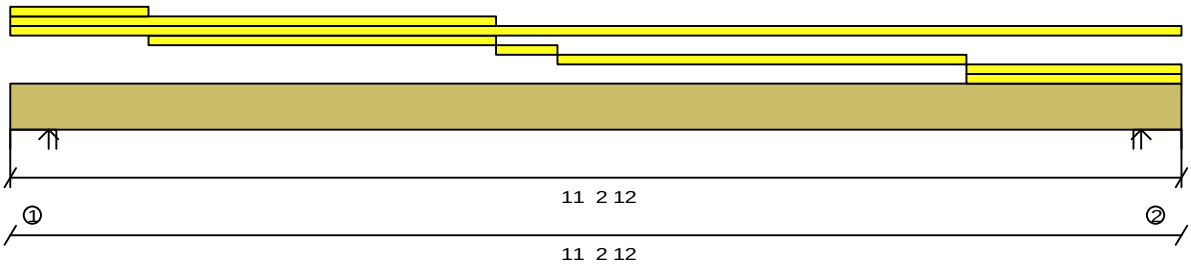
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
Member Weight: 5.9 PLF

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	1' 4.00"		357		139		Live
Additional Uniform (PLF)	Top	0' 0.00"	4' 8.00"		0		7		Live
Replacement Uniform (PLF)	Top	0' 0.00"	11' 2.75"		27		10		Live
Replacement Uniform (PLF)	Top	1' 4.00"	4' 8.00"		167		67		Live
Replacement Uniform (PLF)	Top	4' 8.00"	5' 3.00"		167		63		Live
Replacement Uniform (PLF)	Top	5' 3.00"	9' 2.00"		167		63		Live
Replacement Uniform (PLF)	Top	9' 2.00"	11' 2.75"		27		10		Live
Replacement Uniform (PLF)	Top	9' 2.00"	11' 2.75"		167		63		Live



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravit Uplif
1	0' 0.000"	Wall	N/A	N/A	1.500"	2424#	--
2	11' 2.750"	Wall	N/A	N/A	1.500"	2139#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	1187#	515#
2	1060#	439#

Design spans
10' 5.500"

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P.M. TREVISAN
100136551
March 23rd, 2017
PROVINCE OF ONTARIO

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	5492.'#	17693.'#	31%	5.61'	Total Load 1.25D+1.5L
Shear	1703.#	6908.#	24%	10.32'	Total Load 1.25D+1.5L
TL Deflection	0.1775"	0.3486"	L/706	5.61'	Total Load D+L
LL Deflection	0.1246"	0.2615"	L/999+	5.61'	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

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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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KOTT

Member Data

Description: CalcG3
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

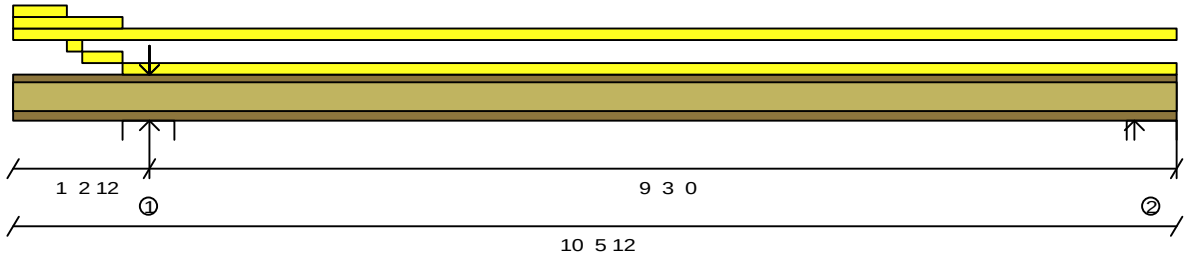
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
0.720" max. LL

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	0' 5.88"		41		93		Snow
Replacement Uniform (PLF)	Top	0' 0.00"	1' 0.00"		6		2		Live
Replacement Uniform (PLF)	Top	0' 0.00"	10' 5.75"		27		10		Live
Replacement Uniform (PLF)	Top	0' 5.88"	0' 7.50"		41		93		Snow
Replacement Uniform (PLF)	Top	0' 7.50"	1' 0.00"		41		93		Snow
Replacement Uniform (PLF)	Top	1' 0.00"	10' 5.75"		27		10		Live
Point (LBS)	Top	1' 2.75"			448		0		Snow
Point (LBS)	Top	1' 2.75"			195		264		Live



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	1' 2.750"	Wall	N/A	N/A	1.500"	1476#	--
2	10' 5.750"	Wall	N/A	N/A	1.500"	460#	--

Maximum Unfactored Load Case Reactions

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

	Live	Snow	Dead
1	465#	474#	426#
2	236#	-1#	85#

Design spans
0' 10.125" (left cant) 8' 10.375"

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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100136551
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Product: NJ12 2 ply

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	1009.'#	9020.'#	11%	5.66'	Even Spans 1.25D+1.5L
Negative Moment	49.'#	5863.'#	0%	1.23'	Total Load 1.4D
Negative Unbrcd	49.'#	5842.'#	0%	1.23'	Total Load 1.4D
Shear	473.#	3400.#	13%	1.23'	Total Load 1.25D+1.5L+1.00*0.5S
Cant. Shear, Lt	97.#	2210.#	4%	1.22'	Total Load 1.4D
End Reaction	1476.#	4100.#	35%	1.23'	Total Load 1.25D+1.00*1.5S+0.5L
TL Deflection	0.0257"	0.2955"	L/999+	5.66'	Even Spans D+L
LL Deflection	0.0193"	0.2216"	L/999+	5.66'	Even Spans L
TL Defl., Lt.	-0.0059"	0.2000"	2L/999+	0'	Even Spans D+L
LL Defl., Lt.	-0.0045"	0.2000"	2L/999+	0'	Even Spans 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
Left cantilever allowable shear is for joist only

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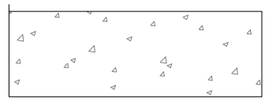
------- Floor Framing Material -------

Type	Qty.	Product	Length
J1	9	NJH12	18' 0"
J2	23	NJH12	16' 0"
J3	32	NJH12	12' 0"
J4	20	NJH12	10' 0"
J5	2	NJH12	8' 0"
J6	24	NJ60H12	18' 0"
G1	1	1 3/4x11 7/8 West Fraser 2.0E-	10' 0"
G2	1	1 3/4x11 7/8 West Fraser 2.0E-	12' 0"
G3	1	1 3/4x11 7/8 West Fraser 2.0E-	10' 0"
G4	1	1 3/4x11 7/8 West Fraser 2.0E-	10' 0"
R1	18	11 7/8" RIMBOARD	12' 0"

------- Miscellaneous Materials -------

Type	Qty.	Product	Length
XXX	1	NJH12	8' 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.

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)

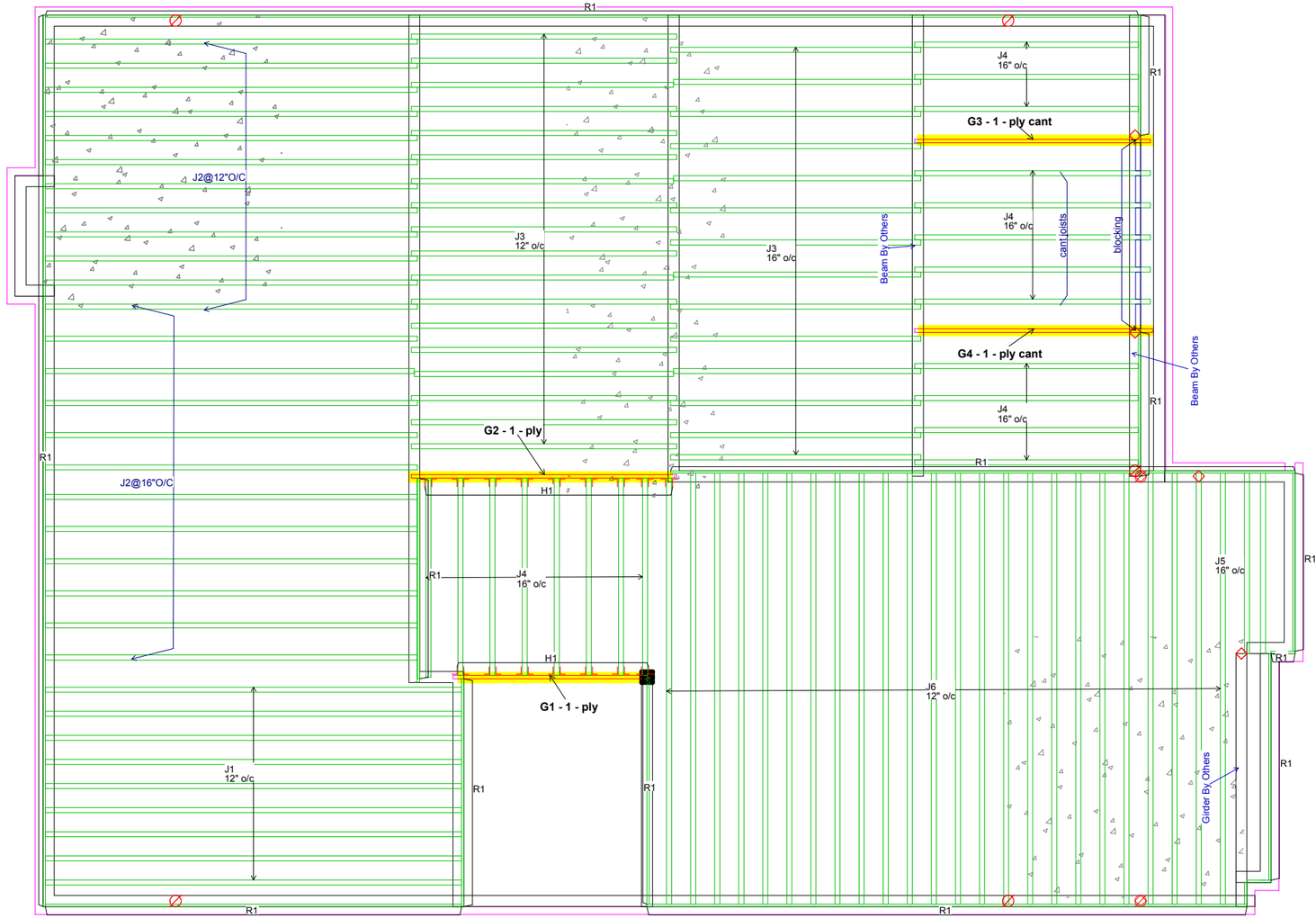
All Loads are UN-FACTORED Loads

NOTES:
1. Framer 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.

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

ID#	Qty	Model Number
H1	16	LT251188



SECOND FLOOR FRAMING

TOWN OF MILTON
PLANNING AND DEVELOPMENT
JUNIPER 8 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 relives 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 on Ontario, By-laws of the Region of Halton and Town of Milton

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

Project Tag:
JUNIPER 8 EL 3

GREEN PARK HOMES
LECCO RIDGE
MILTON,ON

SALESMAN: RM

Time: 11:10 AM
DATE: 11/04/16
Designer: SB
Not Scaled
License Name:
KEYMARK ENTERPRISES, INC.

File: D:\SAUMIL\GREENPARK HOMES\JUNIPER 8\JUNIPER 8-3\F- JU 8 EL 3\flr JU 8 el 3.L10

Member Data

Description: CalcG1
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

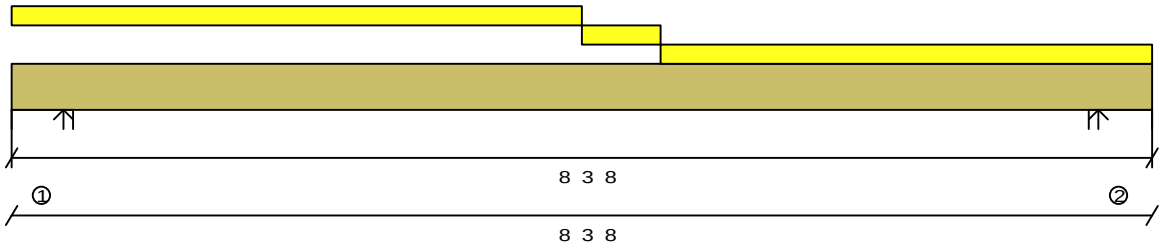
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
0.720" max. LL
Member Weight: 5.9 PLF

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	4' 1.75"		167		63		Live
Replacement Uniform (PLF)	Top	4' 1.75"	4' 8.75"		407		153		Live
Replacement Uniform (PLF)	Top	4' 8.75"	8' 3.50"		407		153		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"	1706#	--
2	8' 3.500"	Wall	N/A	N/A	1.500"	2595#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	852#	342#
2	1304#	512#

Design spans
7' 6.250"

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	4165.'#	17693.'#	23%	4.72'	Total Load 1.25D+1.5L
Shear	1795.#	6908.#	25%	7.15'	Total Load 1.25D+1.5L
TL Deflection	0.0747"	0.2507"	L/999+	4.16'	Total Load D+L
LL Deflection	0.0535"	0.1880"	L/999+	4.16'	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

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100136551
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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

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

Member Data

Description: CalcG2
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

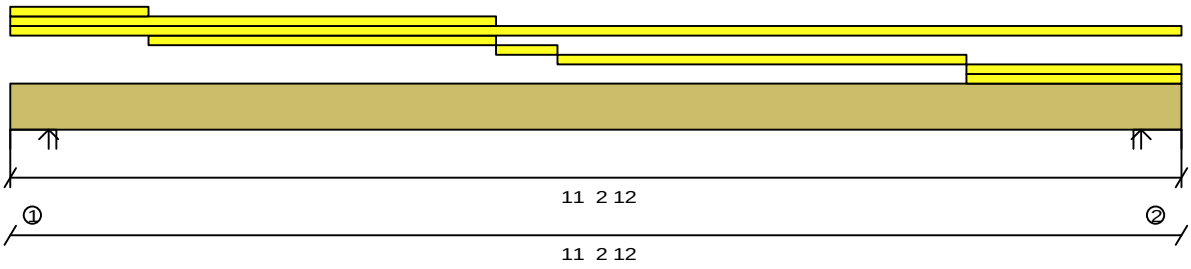
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
Member Weight: 5.9 PLF

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	1' 4.00"		357		139		Live
Additional Uniform (PLF)	Top	0' 0.00"	4' 8.00"		0		7		Live
Replacement Uniform (PLF)	Top	0' 0.00"	11' 2.75"		27		10		Live
Replacement Uniform (PLF)	Top	1' 4.00"	4' 8.00"		167		67		Live
Replacement Uniform (PLF)	Top	4' 8.00"	5' 3.00"		167		63		Live
Replacement Uniform (PLF)	Top	5' 3.00"	9' 2.00"		167		63		Live
Replacement Uniform (PLF)	Top	9' 2.00"	11' 2.75"		27		10		Live
Replacement Uniform (PLF)	Top	9' 2.00"	11' 2.75"		167		63		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"	2424#	--
2	11' 2.750"	Wall	N/A	N/A	1.500"	2139#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	1187#	515#
2	1060#	439#

Design spans
10' 5.500"

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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	5492.'#	17693.'#	31%	5.61'	Total Load 1.25D+1.5L
Shear	1703.#	6908.#	24%	10.32'	Total Load 1.25D+1.5L
TL Deflection	0.1775"	0.3486"	L/706	5.61'	Total Load D+L
LL Deflection	0.1246"	0.2615"	L/999+	5.61'	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

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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: CalcG3
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

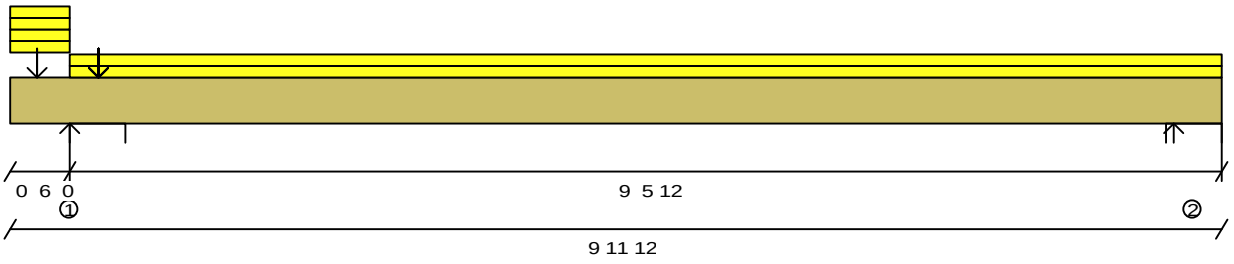
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
Member Weight: 5.9 PLF

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	0' 6.00"		9		3		Live
Replacement Uniform (PLF)	Top	0' 0.00"	0' 6.00"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	0' 6.00"		94		0		Snow
Replacement Uniform (PLF)	Top	0' 0.00"	0' 6.00"		41		122		Live
Replacement Uniform (PLF)	Top	0' 6.00"	9' 11.75"		27		10		Live
Replacement Uniform (PLF)	Top	0' 6.00"	9' 11.75"		27		10		Live
Point (LBS)	Top	0' 2.75"			42		96		Snow
Point (LBS)	Top	0' 8.75"			48		0		Snow
Point (LBS)	Top	0' 8.75"			21		83		Live
Point (LBS)	Top	0' 8.75"			109		109		Live
Point (LBS)	Top	0' 8.75"			250		0		Snow



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 6.000"	Wall	N/A	N/A	1.500"	1413#	--
2	9' 11.750"	Wall	N/A	N/A	1.500"	505#	--

Maximum Unfactored Load Case Reactions

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

	Live	Snow	Dead
1	411#	389#	481#
2	242#	-2#	113#

Design spans
0' 6.000" (left cant) 9' 1.125"

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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PAUL TREVISAN
100136551
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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	1134.'#	17693.'#	6%	5.05'	Even Spans 1.25D+1.5L
Negative Moment	61.'#	11500.'#	0%	0.5'	Total Load 1.4D
Negative Unbrcd	94.'#	17156.'#	0%	0.5'	Cants Only 1.25D+1.00*1.5S+0.5L
Shear	409.#	6908.#	5%	0.51'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.0286"	0.3031"	L/999+	5.05'	Even Spans D+L
LL Deflection	0.0199"	0.2273"	L/999+	5.05'	Even Spans L
TL Defl., Lt.	-0.0041"	0.2000"	2L/999+	0'	Even Spans D+L
LL Defl., Lt.	-0.0030"	0.2000"	2L/999+	0'	Even 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

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Member Data

Description: CalcG4
Comments:

Standard Load:
Live Load: 0 PLF
Dead Load: 0 PLF

Building Type: Residential

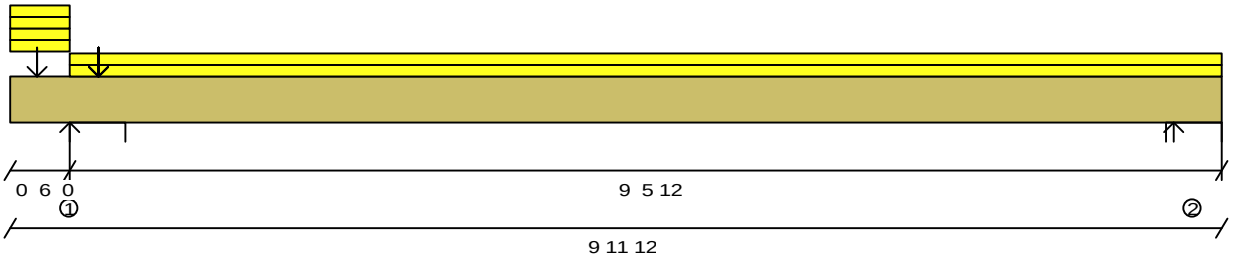
Member Type: Girder
Top Lateral Bracing: Continuous
Bottom Lateral Bracing: None
Moisture Condition: Dry
Deflection Criteria: L/480 live, L/360 total 0.720" max. LL
Deck Connection: Nailed
Filename: D:\SAUMIL\GR
Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012
Member Weight: 5.9 PLF

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	Other End	Dead Start	Dead End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	0' 6.00"		6		2		Live
Replacement Uniform (PLF)	Top	0' 0.00"	0' 6.00"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	0' 6.00"		94		0		Snow
Replacement Uniform (PLF)	Top	0' 0.00"	0' 6.00"		41		122		Live
Replacement Uniform (PLF)	Top	0' 6.00"	9' 11.75"		27		10		Live
Replacement Uniform (PLF)	Top	0' 6.00"	9' 11.75"		27		10		Live
Point (LBS)	Top	0' 2.75"			38		88		Snow
Point (LBS)	Top	0' 8.75"			53		0		Snow
Point (LBS)	Top	0' 8.75"			23		92		Live
Point (LBS)	Top	0' 8.75"			109		109		Live
Point (LBS)	Top	0' 8.75"			250		0		Snow



Bearings and Factored Reactions

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 6.000"	Wall	N/A	N/A	1.500"	1415#	--
2	9' 11.750"	Wall	N/A	N/A	1.500"	505#	--

Maximum Unfactored Load Case Reactions

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

	Live	Snow	Dead
1	412#	391#	481#
2	242#	-1#	113#

Design spans
0' 6.000" (left cant) 9' 1.125"

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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100136551
March 23rd, 2017
PROVINCE OF ONTARIO

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	1136.'#	17693.'#	6%	5.05'	Even Spans 1.25D+1.5L
Negative Moment	89.'#	17693.'#	0%	0.5'	Total Load 1.25D+1.00*1.5S+0.5L
Negative Unbrcd	89.'#	17693.'#	0%	0.5'	Total Load 1.25D+1.00*1.5S+0.5L
Shear	408.#	6908.#	5%	0.51'	Total Load 1.25D+1.5L+1.00*0.5S
TL Deflection	0.0286"	0.3031"	L/999+	5.05'	Even Spans D+L
LL Deflection	0.0199"	0.2273"	L/999+	5.05'	Even Spans L
TL Defl., Lt.	-0.0042"	0.2000"	2L/999+	0'	Even Spans D+L
LL Defl., Lt.	-0.0030"	0.2000"	2L/999+	0'	Even 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

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