

Engineering Note Page (ENP-2)

REVISION 2009-10-09

Please read all notes prior to installation of the component

DESIGN INFORMATION

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

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

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

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

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

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

CODE

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

COMPONENT

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

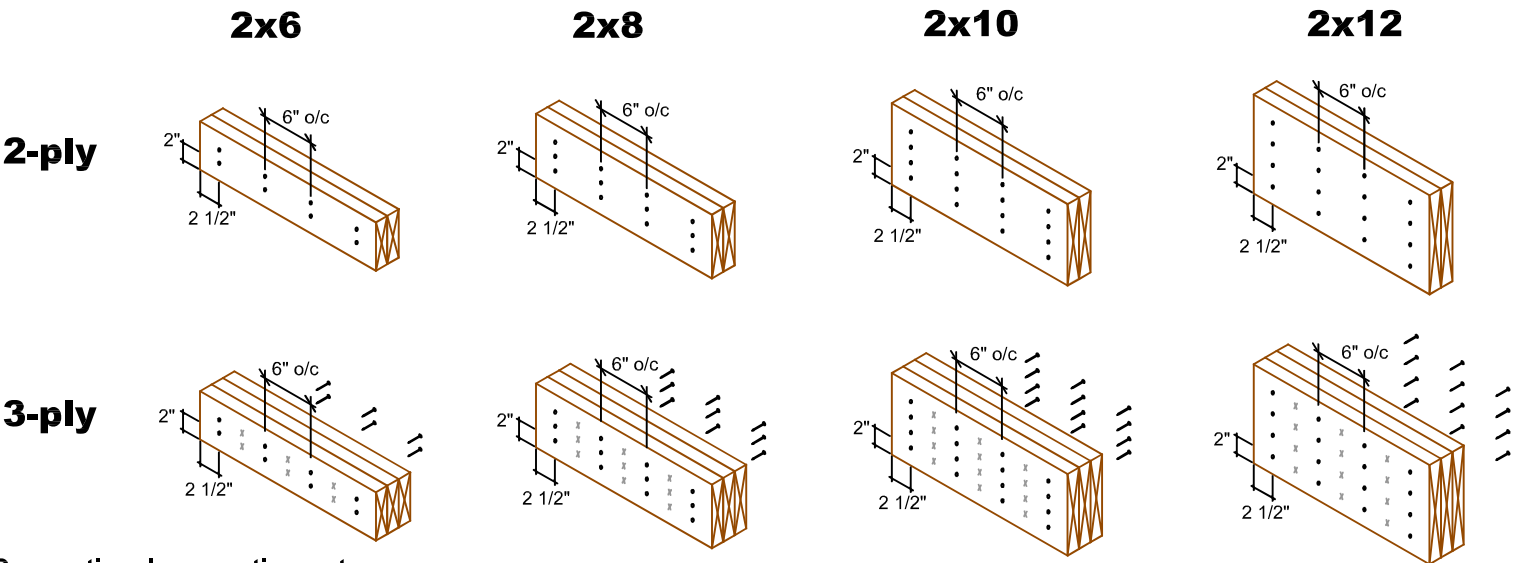
HANDLING AND INSTALLATION

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

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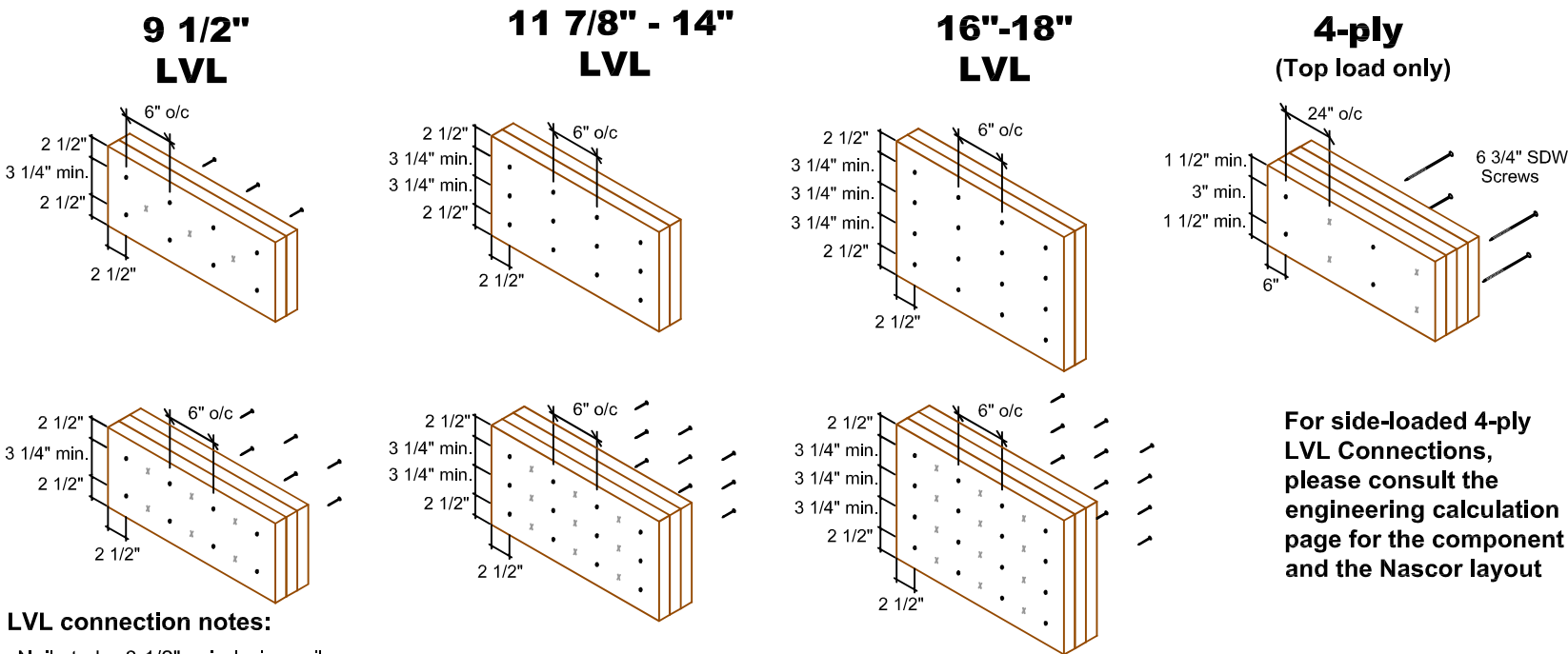
MULTIPLE MEMBER CONNECTIONS

Conventional Connections (for uniform distributed loads)



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

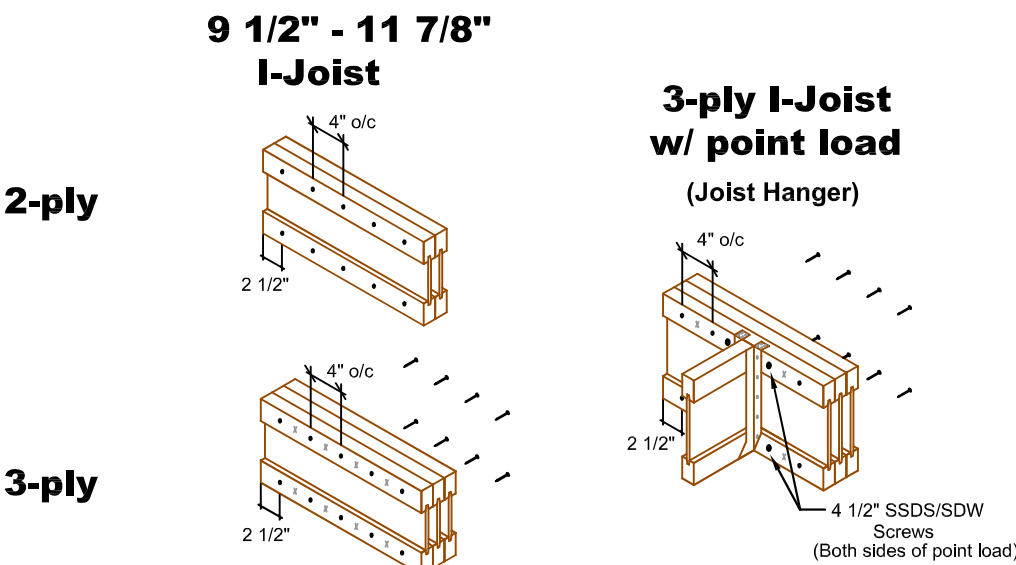
LVL Connections (for uniform distributed loads)



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

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

Vertical I-Joist Connections (for uniform distributed loads)



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

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**MULTI - PLY
CONNECTION
DETAILS**

Date: November 30, 2016
Scale: NTS

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

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

Type	Qty.	Product	Length
J1	13	NJ40U12	18' 0"
J2	3	NJH12	12' 0"
J3	1	NJH12	6' 0"
J4	6	NJH12	4' 0"
J5	8	NJ60U12	20' 0"
J6	36	NJ60H12	18' 0"
G1	1	1-3/4 x 11-7/8 2.0E Global LVL	4' 0"
G2	2	1-3/4 x 11-7/8 2.0E Global LVL	10' 0"
G3	2	NJ12	4' 0"
G4	2	NJ12	18' 0"
G5	2	NJ12	18' 0"
R1	15	11 7/8" RIMBOARD	12' 0"
R2	2	11 7/8" RIMBOARD	12' 0"

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HATCH AREA REPRESENTS
CERAMIC TILED FLOOR WITH AN
ADDITIONAL DEAD LOAD OF 5 PSF



The framing shown on this layout may deviate from the architectural drawing.
Project engineer to review and approve the deviation prior to construction.

Architectural Drawing Info:
REGION DESIGN INC.
8700 Dufferin St., Concord, ON
Date: July 2016
Project Number: 02-10-08
Model: Lot 119 (Juniper 7)

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.

Rim parallel to joists: 1-1/8" rimboard with
2"x4" block (1/16" longer than rim depth @ 16"o/c.
Rim perpendicular to joists: 1-1/8" rimboard with
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.

SB: SQUASH BLOCKS

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

ID#	Qty	Model Number
H1	2	LT2-151188
H2	10	LT351188

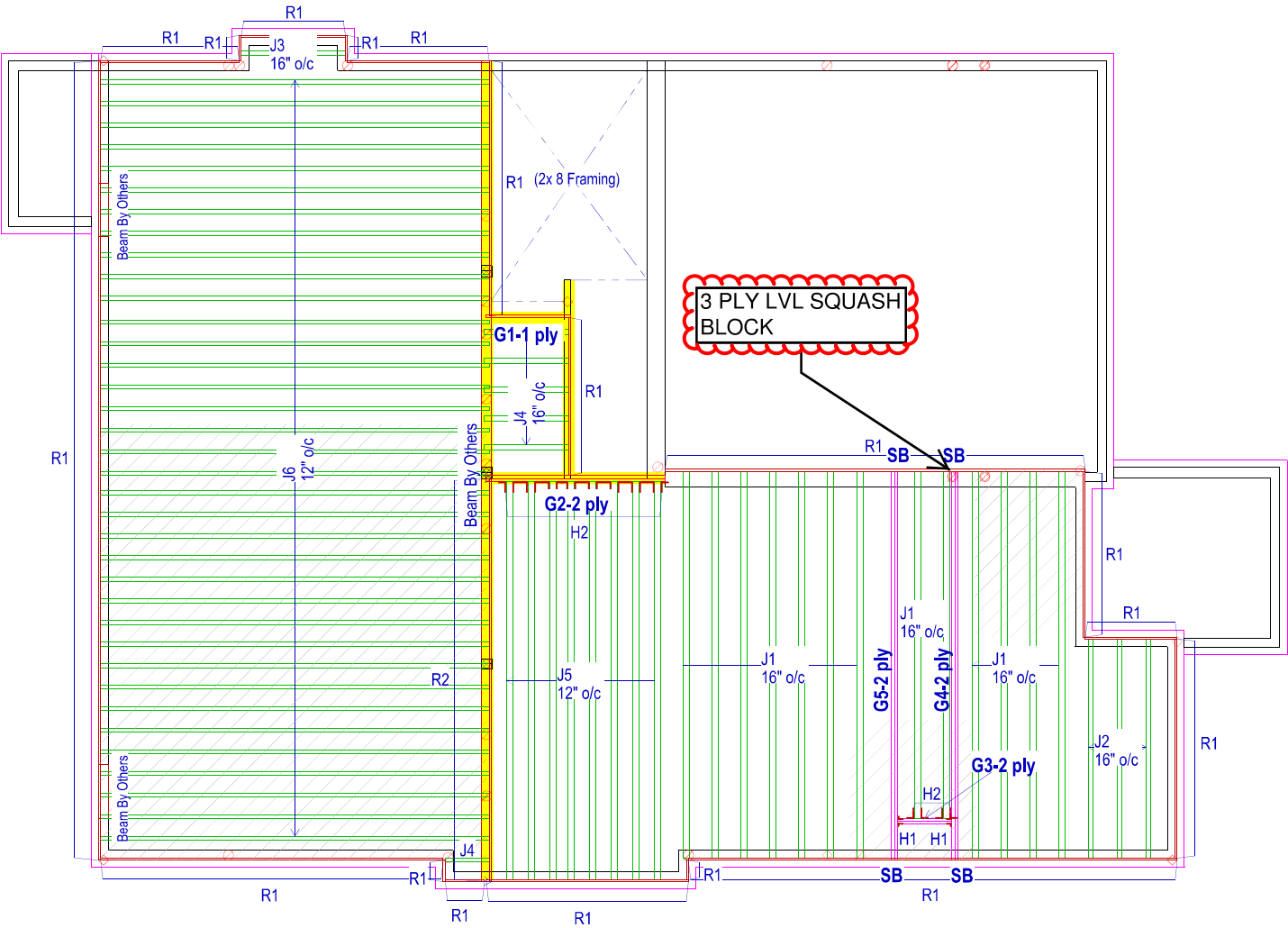
DESIGN ASSUMPTIONS
=====

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
Design assumes top edge continuously braced,
and bottom edge unbraced.
Joist Design Includes CCMC Vibration Check
Subfloor: 3/4" Canadian softwood plywood Glued and Nailed
Ceiling: (None)
Blocking: (None)

All Loads are UN-FACTORED Loads

- NOTES:
- Framer to verify dimensions on the architectural drawings.
 - Double joist only require filler/backer ply when supporting another member using a face-mounted hanger.
 - Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls.
 - Install single-ply flush window header along inside face of rimboard/rimjoist.
 - Refer to Nascor specifier guide for installation details.
 - 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.
 - Load transfer blocks to be installed under all point loads.
 - It shall be the framer's responsibility that floor joists and beams are fastened as per the hanger manufacturer's standards.



FIRST FLOOR FRAMING

TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-7100

BUILDING: REVIEWED
SCOTT SHERRIFFS JUN 12, 2017
PLANS EXAMINER DATE

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

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

Project Tag:

MILTON, ONT.

GREENPARK
LECCO RIDGE
LOT 119 (JUNIPER 7 EL2)

Customer#: Salesman#:RM

Time: 09:46 AM
Date: 05/05/17
Designer: RCO
Scale: 1/8" = 1'
License Name:
KEYMARK ENTERPRISES, INC.

Member Data**Description:** CalcG1**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

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

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 5.0 PLF

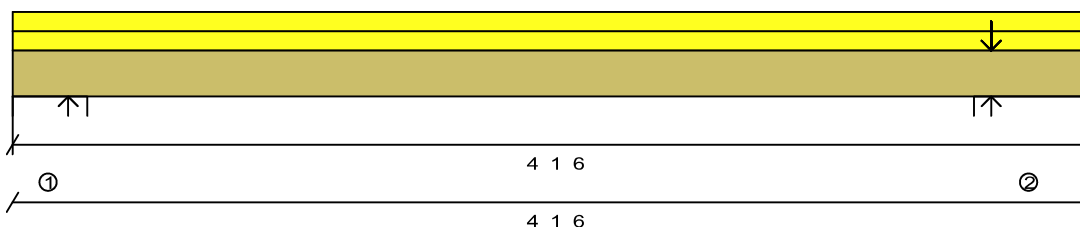
Filename: S:\CUSTOMERS

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	4' 1.38"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	4' 1.38"		40		15		Live
Point (LBS)	Top	3' 9.00"			0		47		Live
Point (LBS)	Top	3' 9.00"			0		113		Live
Point (LBS)	Top	3' 9.00"			319		120		Live
Point (LBS)	Top	3' 9.00"			765		287		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"	243#	--
2	4' 1.375"	Wall	N/A	N/A	1,500"	2578#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	118#	53#
2	1202#	620#

Design spans
3' 6.375"**Product: 1-3/4 x 11-7/8 2.0E Global LVL 1 ply****PASSES DESIGN CHECKS**

NOTE: Pass-thru framing is required at point loads over bearings.
Design assumes continuous lateral bracing along the top chord.
Design assumes no lateral bracing along the bottom chord.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	214.7#	18817.7#	1%	1.98'	Total Load 1.25D+1.5L
Shear	107.7#	6608.7#	1%	2.87'	Total Load 1.25D+1.5L
TL Deflection	0.0010"	0.1177"	L/999+	1.98'	Total Load D+L
LL Deflection	0.0010"	0.0883"	L/999+	1.98'	Tc

(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

Point loads over bearings are NOT included in the Design calculations, but ARE included in the Reaction table

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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08 MAY 2017

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

RCO
KOTT LUMBER
14 Anderson Blvd.
Uxbridge, ON.
Tel.No. 905-642-4400

Member Data**Description:** CalcG2

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

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

0.720" max. LL

Deck Connection: Nailed

Member Weight: 10.1 PLF

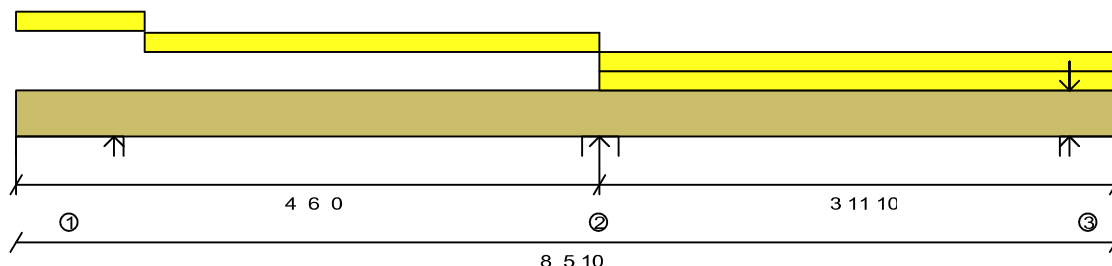
Filename: S:\CUSTOMERS

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	1' 0.00"		373		140		Live
Replacement Uniform (PLF)	Top	1' 0.00"	4' 6.00"		617		231		Live
Replacement Uniform (PLF)	Top	4' 6.00"	8' 5.63"		27		10		Live
Replacement Uniform (PLF)	Top	4' 6.00"	8' 5.63"		373		140		Live
Point (LBS)	Top	8' 1.25"			144		73		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"	1849#	--
2	4' 6.000"	Wall	N/A	N/A	1.589"	4672#	--
3	8' 5.625"	Wall	N/A	N/A	1.500"	1499#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	951#	338#
2	2344#	925#
3	777#	267#

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Design spans

3' 8.875"

3' 7.250"

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Product: 1-3/4 x 11-7/8 2.0E Global LVL 2 ply**PASSES DESIGN CHECKS****NOTE:** Pass-thru framing is required at point loads over bearings.

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

The aspect ratio for the determination of the lateral stability factor is based on the total width of the beam in accordance with Section 6.5.6.3.1 and 6.5.6.3.3 of CSA O86-09.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	1554. #	37634. #	4%	2.44'	Odd Spans 1.25D+1.5L
Negative Moment	1726. #	37634. #	4%	4.5'	Total Load 1.25D+1.5L
Negative Unbrcd	1726. #	37634. #	4%	4.5'	Total Load 1.25D+1.5L
Shear	1538. #	13217. #	11%	3.57'	Total Load 1.25D+1.5L
TL Deflection	0.0025"	0.1247"	L/999+	2.44'	Odd Spans D+L
LL Deflection	0.0019"	0.0935"	L/999+	2.44'	Odd Spans L

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

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

Control: Shear

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

Point loads over bearings are NOT included in the Design calculations, but ARE included in the Reaction table

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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RCO
KOTT LUMBER
14 Anderson Blvd.
Uxbridge, ON.
Tel.No. 905-642-4400

Member Data**Description:** CalcG3**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

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

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Filename: S:\CUSTOMERS

Building Type: Residential

Importance Category: Normal (Part 9)

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

Replacement Uniform (PLF)

Side

Top

Begin

0' 0.00"

End

3' 0.00"

**Trib.
Width****Other
Start**

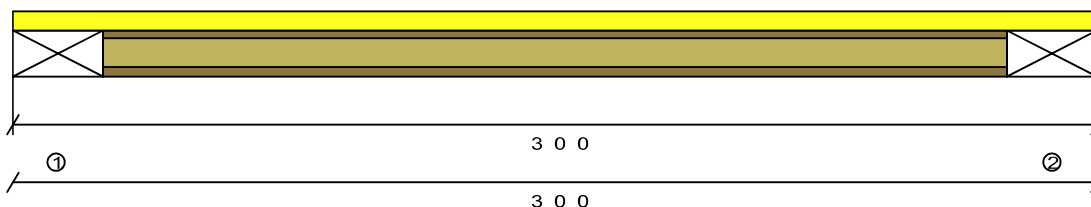
328

End**Dead
Start**

144

End**Category**

Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Girder	N/A	N/A	N/A	840#	--
2	3' 0.000"	Girder	N/A	N/A	N/A	840#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	410#	180#
2	410#	180#

Design spans

2' 6.000"

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	525.#	9020.#	5%	1.5'	Total Load 1.25D+1.5L
Shear	840.#	3400.#	24%	0'	Total Load 1.25D+1.5L
TL Deflection	0.0040"	0.0833"	L/999+	1.5'	Total Load D+L
LL Deflection	0.0028"	0.0625"	L/999+	1.5'	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 hungared connections depend on the connection style and are not included in this design.

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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RCO
KOTT LUMBER
14 Anderson Blvd.
Uxbridge, ON.
Tel.No. 905-642-4400

Member Data**Description:** CalcG4

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Dead Load: 0 PLF

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

0.720" max. LL

Deck Connection: Nailed

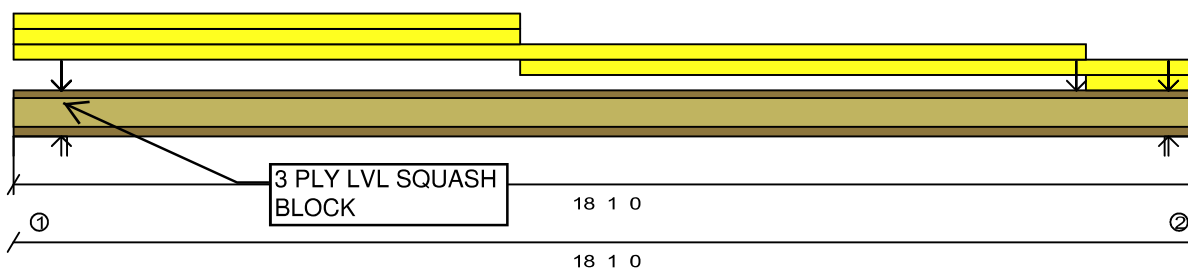
Filename: S:\CUSTOMERS

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	7' 9.00"		0		7		Live
Additional Uniform (PLF)	Top	0' 0.00"	7' 9.00"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	16' 5.00"		27		10		Live
Replacement Uniform (PLF)	Top	7' 9.00"	18' 1.00"		27		10		Live
Replacement Uniform (PLF)	Top	16' 5.00"	18' 1.00"		12		5		Live
Point (LBS)	Top	0' 9.13"			97		36		Live
Point (LBS)	Top	0' 9.13"			193		0		Snow
Point (LBS)	Top	0' 9.13"			0		227		Live
Point (LBS)	Top	0' 9.13"			1287		483		Live
Point (LBS)	Top	0' 9.13"			7906		3283		Live
Point (LBS)	Top	16' 3.50"			410		197		Live
Point (LBS)	Top	17' 8.38"			0		172		Live
Point (LBS)	Top	17' 8.38"			527		0		Snow
Point (LBS)	Top	17' 8.38"			754		674		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"	20072#	--
2	18' 1.000"	Wall	N/A	N/A	1.500"	4110#	--

Maximum Unfactored Load Case Reactions

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

	Live	Snow	Dead
1	9774#	193#	4251#
2	1565#	527#	1200#

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IN THE DESIGN OF THIS COMPONENT.

Design spans
16' 11.250"

08 MAY 2017

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

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

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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

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	4473. #	9020. #	49%	10.08'	Total Load 1.25D+1.5L
Shear	1657. #	3400. #	48%	18.08'	Total Load 1.25D+1.5L
End Reaction	1657. #	4100. #	40%	18.08'	Total Load 1.25D+1.5L
TL Deflection	0.3594"	0.5646"	L/565	9.23'	Total Load D+L
LL Deflection	0.2514"	0.4234"	L/808	9.23'	Total Load L

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RCO
KOTT LUMBER
14 Anderson Blvd.
Uxbridge, ON.
Tel.No. 905-642-4400

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

Control: TL Deflection

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

Point loads over bearings are NOT included in the Design calculations, but ARE included in the Reaction table

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

**READ ALL NOTES ON THIS PAGE AND ON THE
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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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RCO
KOTT LUMBER
14 Anderson Blvd.
Uxbridge, ON.
Tel.No. 905-642-4400

Member Data**Description:** CalcG5**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

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

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

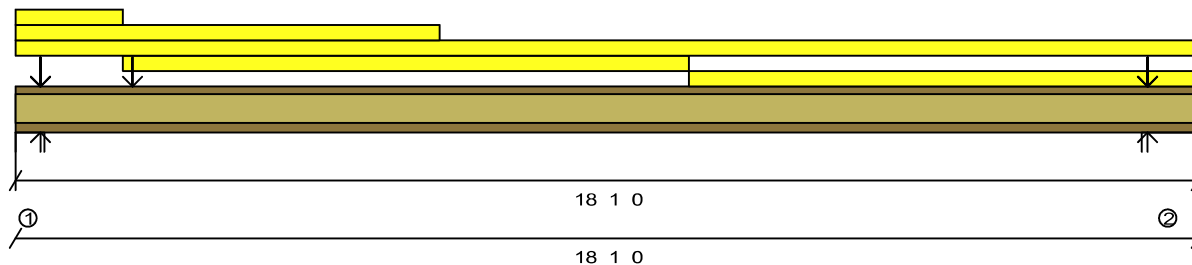
Filename: S:\CUSTOMERS

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	1' 8.00"		12		5		Live
Additional Uniform (PLF)	Top	0' 0.00"	6' 6.00"		0		7		Live
Replacement Uniform (PLF)	Top	0' 0.00"	18' 1.00"		27		10		Live
Replacement Uniform (PLF)	Top	1' 8.00"	10' 4.00"		27		10		Live
Replacement Uniform (PLF)	Top	10' 4.00"	18' 1.00"		27		10		Live
Point (LBS)	Top	0' 4.63"			0		172		Live
Point (LBS)	Top	0' 4.63"			434		0		Snow
Point (LBS)	Top	0' 4.63"			621		555		Live
Point (LBS)	Top	1' 9.50"			410		197		Live
Point (LBS)	Top	17' 3.88"			107		40		Live
Point (LBS)	Top	17' 3.88"			0		227		Live
Point (LBS)	Top	17' 3.88"			1420		532		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"	3745#	--
2	18' 1.000"	Wall	N/A	N/A	1,500"	4258#	--

Maximum Unfactored Load Case Reactions

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

	Live	Snow	Dead
1	1431#	434#	1104#
2	2012#	0#	992#

READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE
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IN THE DESIGN OF THIS COMPONENT.

Design spans
16' 11.250"

08 MAY 2017

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

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

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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

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	4467.#	9020.#	49%	8.01'	Total Load 1.25D+1.5L
Shear	1686.#	3400.#	49%	0'	Total Load 1.25D+1.5L
End Reaction	1686.#	4100.#	41%	0'	Total Load 1.25D+1.5L
TL Deflection	0.3573"	0.5646"	L/568	8.85'	Total Load D+L
LL Deflection	0.2514"	0.4234"	L/808	8.85'	Total Load L

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RCO
KOTT LUMBER
14 Anderson Blvd.
Uxbridge, ON.
Tel.No. 905-642-4400

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

Control: TL Deflection

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

Point loads over bearings are NOT included in the Design calculations, but ARE included in the Reaction table

Manufacturer's installation guide MUST be consulted 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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RCO
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14 Anderson Blvd.
Uxbridge, ON.
Tel.No. 905-642-4400

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

Type	Qty.	Product	Length
J1	10	NJH12	16' 0"
J2	5	NJH12	14' 0"
J3	3	NJH12	12' 0"
J4	7	NJH12	10' 0"
J5	7	NJH12	4' 0"
J6	9	NJ60U12	20' 0"
J7	54	NJ60H12	18' 0"
G1	1	1-3/4 x 11-7/8 2.0E Global LVL	8' 0"
G2	1	1-3/4 x 11-7/8 2.0E Global LVL	4' 0"
G3	1	1-3/4 x 11-7/8 2.0E Global LVL	10' 0"
G4	1	1-3/4 x 11-7/8 2.0E Global LVL	4' 0"
G5	2	1-3/4 x 11-7/8 2.0E Global LVL	10' 0"
R1	15	11 7/8" RIMBOARD	12' 0"
R2	3	11 7/8" RIMBOARD	12' 0"
R3	2	11 7/8" RIMBOARD	12' 0"

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

Type	Qty.	Product	Length
XXX	2	NJH12	16' 0"

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

ID#	Qty	Model Number
H1	3	HUS1.81/10
H2	7	LT351188
H3	6	LT251188

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
Design assumes top edge continuously braced,
and bottom edge unbraced.
Joist Design Includes CCMC Vibration Check
Subfloor: 5/8" Canadian softwood plywood Glued and Nailed
Ceiling: 1/2" gypsum
Blocking: (None)

All Loads are UN-FACTORED Loads

HATCH AREA REPRESENTS
CERAMIC TILED FLOOR WITH AN
ADDITIONAL DEAD LOAD OF 5 PSF



The framing shown on this layout may deviate from the architectural drawing.
Project engineer to review and approve the deviation prior to construction.

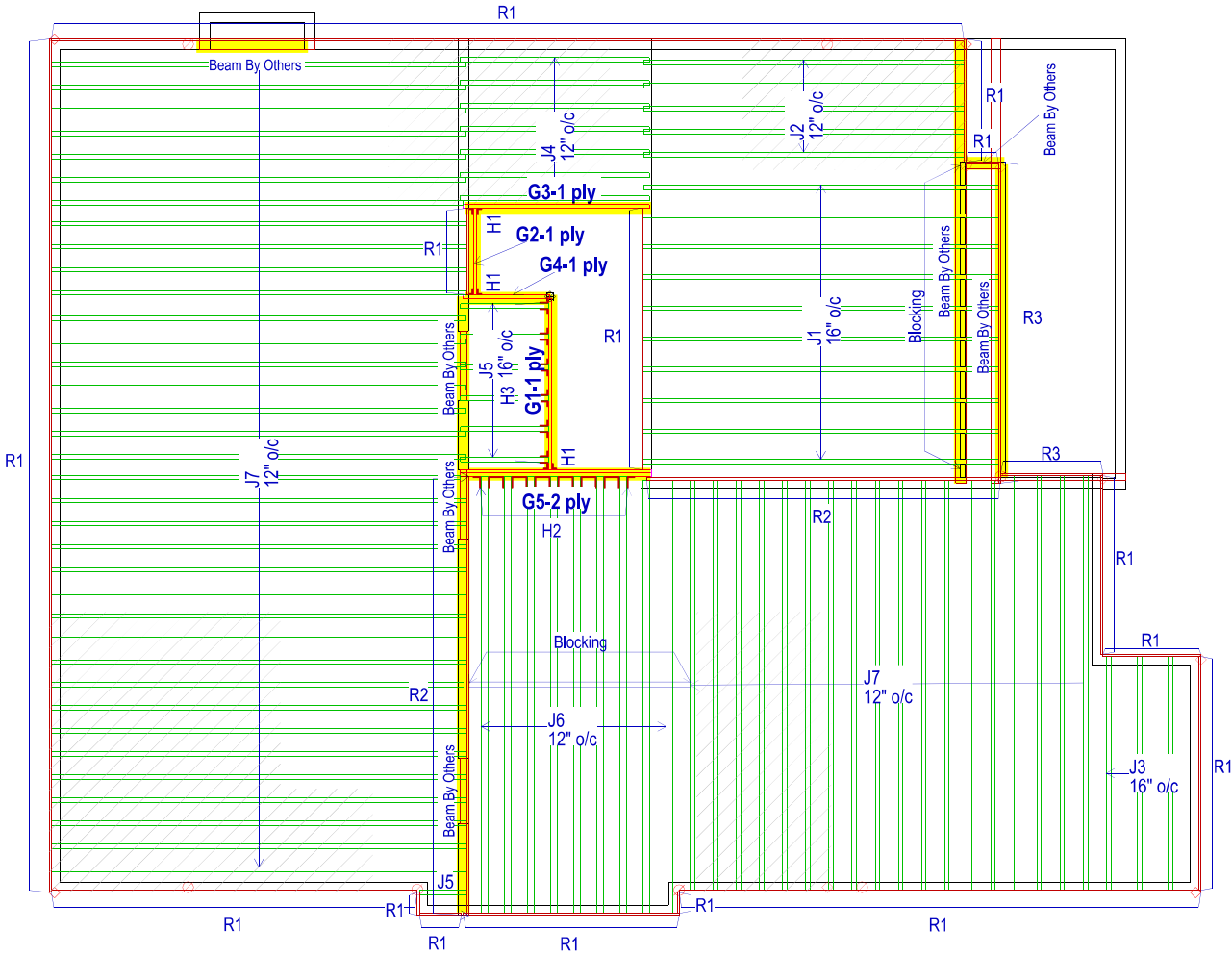
Architectural Drawing Info:
REGION DESIGN INC.
8700 Dufferin St., Concord, ON
Date: July 2016
Project Number: 02-10-08
Model: Lot 119 (Juniper 7)

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.

Rim parallel to joists: 1-1/8" rimboard with
2"x4" block (1/16" longer than rim depth @ 16"o/c.
Rim perpendicular to joists: 1-1/8" rimboard with
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.

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



SECOND FLOOR FRAMING



TOWN OF MILTON

PLANNING AND DEVELOPMENT

BUILDING PERMIT: 17-7100

BUILDING: REVIEWED

SCOTT SHERRIFFS

PLANS EXAMINER

JUN 12, 2017

DATE

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

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

Project Tag:

MILTON, ONT.

GREENPARK
LECCO RIDGE
LOT 119 (JUNIPER 7 EL2)

Customer#: Salesman#:RM

Time: 09:46 AM
Date: 05/05/17
Designer: RCO
Scale: 1/8" = 1'
License Name:
KEYMARK ENTERPRISES, INC.

Member Data**Description:** CalcG1

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

Dead Load: 0 PLF

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

0.720" max. LL

Deck Connection: Nailed

Member Weight: 5.0 PLF

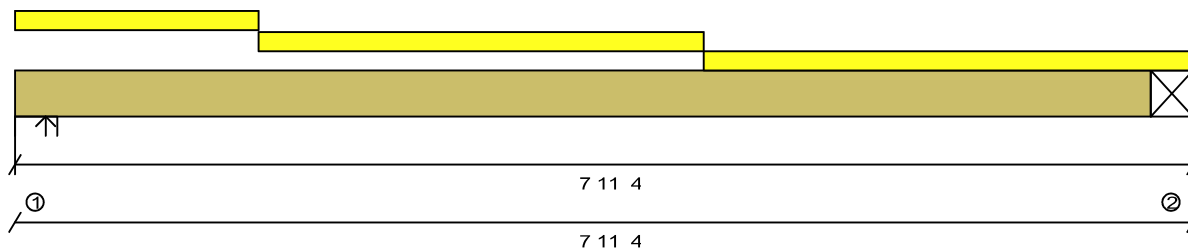
Filename: S:\CUSTOMERS

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	1' 7.75"		75		28		Live
Replacement Uniform (PLF)	Top	1' 7.75"	4' 7.75"		75		28		Live
Replacement Uniform (PLF)	Top	4' 7.75"	7' 11.25"		75		28		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"	572#	--
2	7' 11.250"	Girder	N/A	N/A	N/A	572#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	279#	123#
2	279#	123#

Design spans

7' 5.125"

Product: 1-3/4 x 11-7/8 2.0E Global LVL 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	1061.7#	18817.7#	5%	3.93'	Total Load 1.25D+1.5L
Shear	419.7#	6608.7#	6%	0.23'	Total Load 1.25D+1.5L
TL Deflection	0.0152"	0.2476"	L/999+	3.93'	Total Load D+L
LL Deflection	0.0105"	0.1857"	L/999+	3.93'	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.

**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****RECEIVED
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RCO
KOTT LUMBER
14 Anderson Blvd.
Uxbridge, ON.
Tel.No. 905-642-4400

Member Data**Description:** CalcG2

Comments:

Standard Load:

Live Load: 0 PLF

Dead Load: 0 PLF

Building Type: Residential

Member Type: Girder

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

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

Deck Connection: Nailed

Filename: S:\CUSTOMERS

Importance Category: Normal (Part 9)

Application: Floor

Building Code: OBC-2012

0.720" max. LL

Member Weight: 5.0 PLF

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

Replacement Uniform (PLF)

Side

Top

Begin

0' 0.00"

End

4' 3.25"

**Trib.
Width****Other
Start**

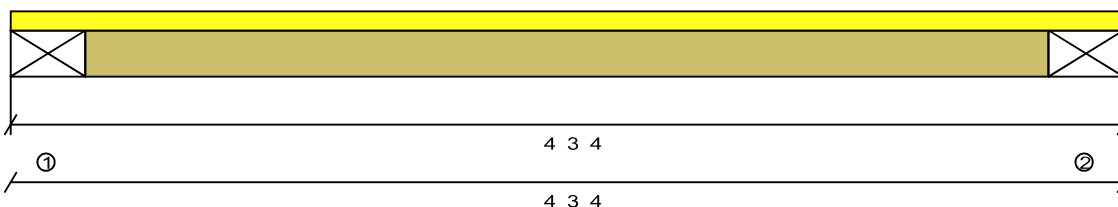
270

End**Dead
Start**

101

End**Category**

Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Girder	N/A	N/A	N/A	991#	--
2	4' 3.250"	Girder	N/A	N/A	N/A	991#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	498#	195#
2	498#	195#

Design spans

3' 8.250"

Product: 1-3/4 x 11-7/8 2.0E Global LVL 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	914.7#	18817.7#	4%	2.14'	Total Load 1.25D+1.5L
Shear	459.7#	6608.7#	6%	3.06'	Total Load 1.25D+1.5L
TL Deflection	0.0032"	0.1229"	L/999+	2.14'	Total Load D+L
LL Deflection	0.0023"	0.0922"	L/999+	2.14'	Total Load L

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

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

Control: Shear

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

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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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RCO
KOTT LUMBER
14 Anderson Blvd.
Uxbridge, ON.
Tel.No. 905-642-4400

Member Data**Description:** CalcG3

Comments:

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

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

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 5.0 PLF

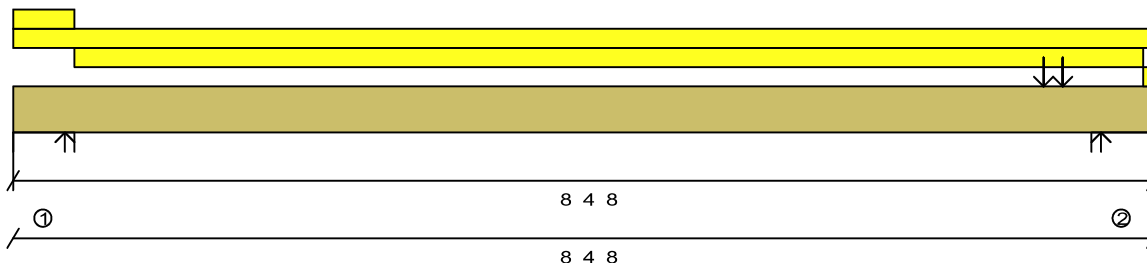
Filename: S:\CUSTOMERS

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	0' 5.50"		27		10		Live
Replacement Uniform (PLF)	Top	0' 0.00"	8' 4.50"		27		10		Live
Replacement Uniform (PLF)	Top	0' 5.50"	8' 3.63"		13		5		Live
Replacement Uniform (PLF)	Top	8' 3.63"	8' 4.50"		27		10		Live
Point (LBS)	Top	7' 6.75"			231		86		Live
Point (LBS)	Top	7' 8.50"			517		220		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"	385#	--
2	8' 4.500"	Wall	N/A	N/A	1,500"	1760#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	183#	89#
2	866#	369#

Design spans
7' 7.250"**Product: 1-3/4 x 11-7/8 2.0E Global LVL 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	876.#	18817.#	4%	4.95'	Total Load 1.25D+1.5L
Shear	300.#	6608.#	4%	0.4'	Total Load 1.25D+1.5L
TL Deflection	0.0135"	0.2535"	L/999+	4.19'	Total Load D+L
LL Deflection	0.0092"	0.1901"	L/999+	4.19'	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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RCO
KOTT LUMBER
14 Anderson Blvd.
Uxbridge, ON.
Tel.No. 905-642-4400

Member Data**Description:** CalcG4**Comments:**

Member Type: Girder

Application: Floor

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: None

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Live Load: 0 PLF

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

0.720" max. LL

Dead Load: 0 PLF

Deck Connection: Nailed

Member Weight: 5.0 PLF

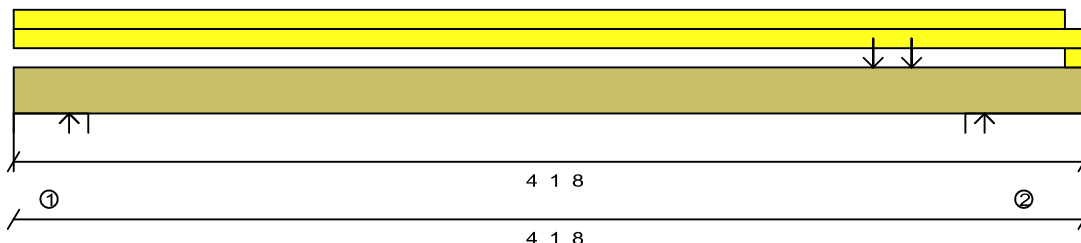
Filename: S:\CUSTOMERS

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Replacement Uniform (PLF)	Top	0' 0.00"	4' 0.63"		9		3		Live
Replacement Uniform (PLF)	Top	0' 0.00"	4' 1.50"		27		10		Live
Replacement Uniform (PLF)	Top	4' 0.63"	4' 1.50"		27		10		Live
Point (LBS)	Top	3' 3.75"			540		202		Live
Point (LBS)	Top	3' 5.50"			517		220		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"	347#	--
2	4' 1.500"	Wall	N/A	N/A	1.500"	2036#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	169#	74#
2	1013#	413#

Design spans

3' 6.250"

Product: 1-3/4 x 11-7/8 2.0E Global LVL 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	709.7#	18817.7#	3%	3.31'	Total Load 1.25D+1.5L
Shear	272.7#	6608.7#	4%	0.23'	Total Load 1.25D+1.5L
TL Deflection	0.0018"	0.1174"	L/999+	2.16'	Total Load D+L
LL Deflection	0.0013"	0.0880"	L/999+	2.16'	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: Shear

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Detail for ply to ply nailing or bolting
requirements****RECEIVED
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RCO
KOTT LUMBER
14 Anderson Blvd.
Uxbridge, ON.
Tel.No. 905-642-4400

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

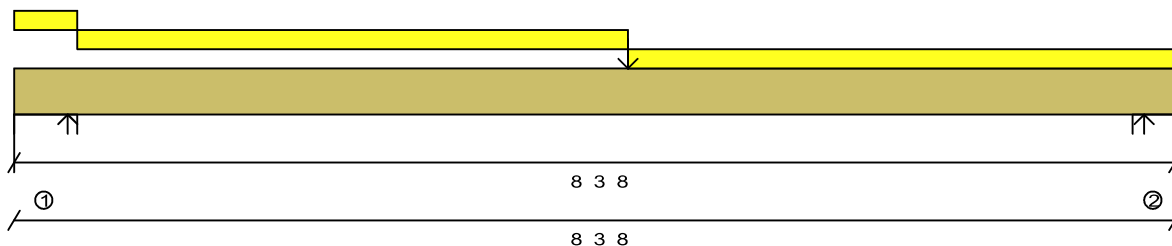
Filename: S:\CUSTOMERS

Importance Category: Normal (Part 9)**Application:** Floor**Building Code:** OBC-2012

0.720" max. LL

Member Weight: 10.1 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' 5.50"		387		145		Live
Replacement Uniform (PLF)	Top	0' 5.50"	4' 4.75"		387		145		Live
Replacement Uniform (PLF)	Top	4' 4.75"	8' 3.50"		387		145		Live
Point (LBS)	Top	4' 4.75"			281		158		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"	3271#	--
2	8' 3.500"	Wall	N/A	N/A	1.500"	3298#	--

Maximum Unfactored Load Case Reactions

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

	Live	Dead
1	1621#	672#
2	1633#	679#

Design spans

7' 8.250"

Product: 1-3/4 x 11-7/8 2.0E Global LVL 2 ply**PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.

Design assumes no lateral bracing along the bottom chord.

The aspect ratio for the determination of the lateral stability factor is based on the total width of the beam in accordance with Section 6.5.6.3.1 and 6.5.6.3.3 of CSA O86-09.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	6894. #	37634. #	18%	4.4'	Total Load 1.25D+1.5L
Shear	2532. #	13217. #	19%	7.3'	Total Load 1.25D+1.5L
TL Deflection	0.0509"	0.2563"	L/999+	4.23'	Total Load D+L
LL Deflection	0.0358"	0.1922"	L/999+	4.23'	Total Load L

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

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

Control: TL Deflection

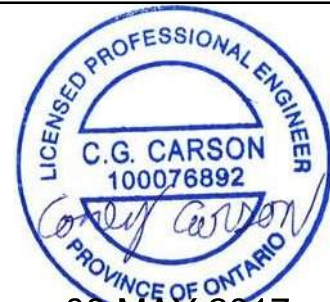
Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

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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08 MAY 2017

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

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