Ground Floor LVL/LSL Label Description Width Depth Qty Plies Pcs Length F9 1.75 11.875 12-0-0 2.0E-3000Fb LVL F8 1.75 11.875 10-0-0 2.0E-3000Fb LVL F11 8-0-0 1.75 11.875 Forex 2.0E-3000Fb LVL F7 Forex 1.75 11.875 8-0-0 2.0E-3000Fb LVL F10 1.75 11.875 Forex 2.0E-3000Fb LVL

4-0-0 F6 1.75 11.875 Forex 2.0E-3000Fb LVL Joist Label Description Width Depth Qty Plies Pcs Length F15 LPI 20Plus 2.5 11.875 2 16-0-0 F14 LPI 20Plus 2.5 11.875 4-0-0 32 J1 LPI 20Plus 2.5 11.875 16-0-0 J6 LPI 20Plus 2.5 11.875 16 14-0-0 J5 LPI 20Plus 2.5 11.875 4 12-0-0 J4 LPI 20Plus 2.5 11.875 1 10-0-0 7 8-0-0 2.5 11.875 J10 LPI 20Plus J2 LPI 20Plus 2.5 11.875 6-0-0 J7 NJ60H 2.5 11.875 3 16-0-0

Rim Board Width Depth Qty Plies Pcs Length Label Description Norbord Rimboard 1,125 11,875 16 Plus 1.125 X 11 875

Hanger Beam/Girder Supported Member Label Pcs Description Skew Slope fasteners fasteners H1 1 Unknown Hanger H2 2 HUS1.81/10 30 10dx1 1/2 10 16d H3 21 LF2511 12 10d 1 #8x1 1/4WS H5 1 HUS1.81/10

Blocking Label Description Plies Pcs Length Width Depth Qty BLK1 LPI 20 Plus 2.5 11.875 LinFt Varies 48-0-0

Engineered floor joists shall be installed. Framer to verify dimensions on the architectural drawings.

Pouble joist only require filler/backer ply when supporting a in accordance with the supplier's layout and specifications forming part of the permit deal.

Framer to verify dimensions on the architectural grawings.

Double joist only require filler/backer ply when supporting another specifications forming part of the permit deal. specifications forming part of the permit drawings nstall 2x4 blocking @ 24" o/c under parallel non-loadbearing walls. All work shall conform to the Ontario

NOTES

Legend

4. 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.

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

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 represents ceramic tiled floor with an additional dead load

Point Load Support

Load from Above

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

Layout Name LOT 5 (AMELIA 3) Design Method LSD Description GREEN YORK HOMES GRANELLI HOMES PROJECT BRAMPTON,ON Created May 29, 2018 Builder Sales Rep Designer SB Shipping Project Builder's Project **Kott Lumber Company** 14 Anderson Blvd Stouffville Ontario Canada L4A 7X4 905-642-4400 Ground Floor Design Method Building Code NBCC 2010 / OBC Floor oads _ive Dead Deflection Joist LL Span L/ TL Span L/ LL Cant 2L/ TL Cant 2L/ Deflection Girder LL Span L/ TL Span L/ LL Cant 2L/ TL Cant 2L/ Decking Deck

LSD

2012

40

15

IM1218-004

480 360 480 360 360

240 480 360 OSB

3/4" Thickness Nailed & Glued Fastener Vibration

M-2057

LOT 5

This certification is to confirm that:

F14-A - 1 ply

1. The loads used in the calculation of the attached approved components conform to the floor assembly shown on this layout.

2. The floor joists comply with the KOTT span table for the loads and spacing shown on this layout.

The floor system must be assembled in accordance to the KOTT Specifier Guide. Multi-ply members must be attached together as per the included multiple member connection detail.

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.



December 18, 2018

BUILDING DIVISION

Version 18 80 219 Powered by iStruct™

5. CCMC -12787-R APA PR-L310(C)

1. OBC 2012 O.Reg 332/12 as amended

The section of

Architectural Drawing Info

JARDIN DESIGN GROUP

64 JARDIN DR, SUITE 3A

VAUGHAN, ON L4K 3P3

Model: LOT-5 (AMELIA 3)

JOISTS SPACING 16"O/C

2. Nascor CCMC - 13535-R

3. LVL CCMC -12904-R

4. CAN/CSA-086-09

NOTED OTHERWISE

Project # 17-55

UNLESS

Date: AUG 30, 2018

This layout is to be used as an installation guide only. It is meant to be used in conjunction with the architectural and structural drawings, not to replace them

Wall Norbord Rimboard Plus 1.125 X 11.875 LPI 20Plus 11.875 NJ60H 11 875 Forex 2.0E-3000Fb LVL 1.75 X 11.875 5.25 X 10.25 (Dropped)

19-447/37. RR

Second Floor

F13 2.0E-3000Fb LVL Layout Name F12 1.75 11.875 12-0-0 Forex 2.0E-3000Fb LVL LOT 5 (AMELIA 3) F11 Forex 1.75 11.875 8-0-0 Design Method 2.0E-3000Fb LVL F7 Forex 1.75 11.875 Description 2.0E-3000Fb LVL GREEN YORK HOMES F6 1.75 11.875 4-0-0 Forex 2.0E-3000Fb LVL BRAMPTON,ON Joist Created Label Description Width Depth Qty Plies Pcs Length J8 LPI 20Plus 2.5 11.875 18 20-0-0 May 29, 2018 J1 LPI 20Plus 2.5 11.875 49 16-0-0 Builder J6 LPI 20Plus 2.5 11.875 14 14-0-0 Sales Rep J5 LPI 20Plus 2.5 11.875 12-0-0 J10 LPI 20Plus RM 2.5 11.875 1 8-0-0 J9 LPI 20Plus 2.5 11.875 2 4-0-0 Designer F16 LPI 20Plus 2.5 11.875 1 20-0-0 Rim Board Label Description Qty Plies Pcs Length Width Depth Norbord Rimboard 1.125 11.875 Plus 1.125 X 11.875 Blocking Width Depth Qty Plies Label Description Pcs Length BLK1 LPI 20 Plus 2.5 11.875 LinFt Varies 34-0-0

Width Depth Qty Plies Pcs Length

Beam/Girder Supported Member

Label Pcs Description Skew Slope fasteners fasteners 2 HUS1.81/10 H2 30 16d 10 16d 26 LF2511 12 10d 1 #8×1 1/4WS H4 1 HGUS410 16 16d 46 16d

NOTES:

Hanger

LVL/LSL

Label Description

- 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.

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

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 represents ceramic tiled floor with an additional dead load

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

SB Shipping Project Builder's Project **Kott Lumber Company** 14 Anderson Blvd Stouffville, Ontario Canada 14A7X4 905-642-4400 Second Floor Design Method Building Code NBCC 2010 / OBC Floor Loads Live Dead Deflection Joist LL Span L/ TL Span L/ LL Cant 2L/ TL Cant 2L/ Deflection Girder LL Span L/ TL Span L/ LL Cant 2L/ TL Cant 2L/ Decking Deck Thickness Fastener Vibration Ceiling:

SD

GRANELLI HOMES PROJECT

LSD

40

15

480

360

480

360

360 240

480 360

OSB

5/8"

Nailed & Glued

Gypsum 1/2"

Architectural Drawing Info

JARDIN DESIGN GROUP 64 JARDIN DR SUITE 3A VAUGHAN.ON L4K 3P3 Project # 17-55 Model: LOT 5 (AMELIA 3) Date: AUG 30, 2018

JOISTS SPACING 16"O/C NOTED OTHERWISE

- 1. OBC 2012 O.Reg 332/12 as amended
- 2. Nascor CCMC 13535-R
- 3. LVL CCMC -12904-R
- 4. CAN/CSA-086-09
- 5. CCMC -12787-R APA PR-L310(C)

This certification is to confirm that:

1. The loads used in the calculation of the attached approved components conform to the floor assembly shown on this layout.

2. The floor joists comply with the KOTT span table for the loads and spacing shown on this layout. The floor system must be assembled in accordance to the KOTT Specifier Guide. Multi-ply members must be attached together as per the included multiple member connection detail.

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.



OTB

Legend Point Load Support Load from Above Norbord Rimboard Plus 1.125 X 11.875 LPI 20Plus 11.875 Forex 2.0E-3000Fb LVL 1.75 X 11.875 111111 1.75 X 9.5 (Dropped) 5 X 10.25 (Dropped)

M-2057



Engineering Note Page (ENP-2)

REVISION 2018-10-17

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 <u>only</u> 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 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 transfer blocks. Structural elements such as walls, posts, connectors, and transfer 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 floor joists is to be carried out in accordance with the current edition of the manufacturer's literature available at http://www.kottgroup.com.

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.

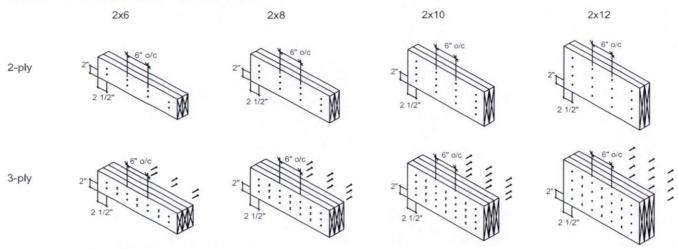
COMPONENT

- 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 transfer 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 preauthorization.

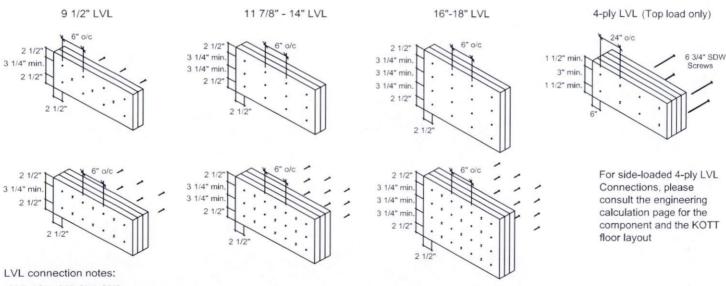
Conventional Connections



Conventional connection notes:

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

LVL Connections



- -LVL ply width is 1-3/4"
- -Nails to be 3 1/2" common wire nails.
- -Nails to be located 2 1/2" min. from the top and bottom of the member. Start all nails 2 1/2" min. 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.

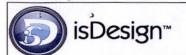
Multiple Member Connections

All connections are for uniformly distributed loads.

For multi-ply connections of I-joists, refer to Manufacturer's Installation Guide



KOTT Inc. 3228 Moodie Drive Ottawa, ON K2H 7V1 613-838-2775



Client: Project:

Address:

Date: 12/17/2018

Designer: SB

Job Name: LOT 5 (AMELIA 3)

Project #:

Forex 2.0E-3000Fb LVL

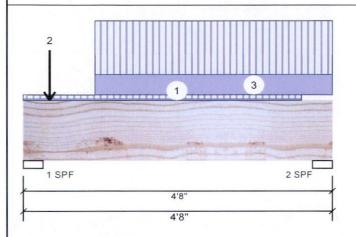
1.750" X 11.875"

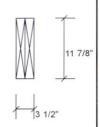
2-Ply - PASSED Level: Ground Floor

1

2

2 - SPF 3.500"





Wind

0

0

1.25D+1.5L

Member Information

Type.	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Floor (Residential) Application: Design Method: LSD NBCC 2010 / OBC 2012 Building Code: Load Sharing: No

Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

336

308

Snow

1526 L

0

0

Live

836

761

Bearing:	s and Fac	tored R	eactions			
Bearing	Length	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	22%	419 / 1254	1673	L	1.25D+1.5L

384 / 1141

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1441 ft-lb	2'4 3/8"	34261 ft-lb	0.042 (4%)	1.25D+1.5L	L
Unbraced	1441 ft-lb	2'4 3/8"	34261 ft-lb	0.042 (4%)	1.25D+1.5L	L
Shear	2109 lb	1'2 5/8"	11596 lb	0.182 (18%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/28861)	2'4 3/16"	0.140 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.004 (L/11672)	2'4 1/4"	0.140 (L/360)	0.030 (3%)	L	L
TL Defl inch	0.006 (L/8311)	2'4 1/4"	0.210 (L/240)	0.030 (3%)	D+L	L

Deck:

Design Notes

- Girders are designed to be supported on the bottom edge only
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on full section width.

PROFESSIONAL I.MATIJEVIC 100528832 STOVINCE OF ONTHE

December 18, 2018

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 4-2-8	(Span)1-2-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-4-10		Near Face	139 lb	371 lb	0 lb	0 lb	J1
3	Part, Uniform	1-0-10 to 4-8-0		Near Face	117 PLF	312 PLF	0 PLF		ru Framing Squas at all point loads
	Self Weight R	EAD ALL NOTES ON T	HIS PAGE AND	ON THE	10 PLF			required	at all point loads

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.

sh Block is s over bearings

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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- andling & Installation
 LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400



Kott Lumber Company





Client:

Project: Address

12/17/2018 Date:

Designer: SB

Job Name: LOT 5 (AMELIA 3)

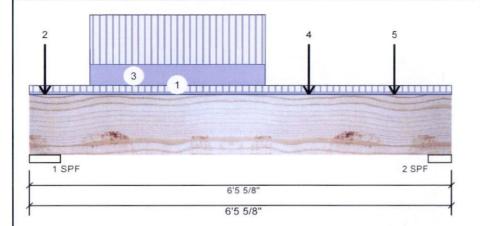
Project #:

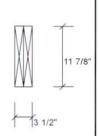
Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED Level: Ground Floor

Brg





Wind

Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application: Design Method: Building Code:

Load Sharing:

Deck:

Vibration:

Floor (Residential) LSD NBCC 2010 / OBC 2012

No Not Checked Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift)

1.	637	303	U	U
2	823	385	0	0

Dead

Bearings and Factored Reactions

Live

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.	
1 - SPF	5.500"	15%	479 / 1256	1735	L	1.25D+1.5L	
2 - SPF	4.375"	18%	482 / 1234	1716	L	1.25D+1.5L	

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2763 ft-lb	3'2 11/16"	34261 ft-lb	0.081 (8%)	1.25D+1.5L	L
Unbraced	2763 ft-lb	3'2 11/16"	32711 ft-lb	0.084 (8%)	1.25D+1.5L	L
Shear	1902 lb	5'2 1/8"	11596 lb	0.164 (16%)	1.25D+1.5L	L
Perm Defl in.	0.005 (L/12838)	3'3 1/4"	0.192 (L/360)	0.030 (3%)	D	Uniform
LL Defl inch	0.012 (L/5833)	3'3 1/16"	0.192 (L/360)	0.060 (6%)	L	L
TL Defl inch	0.017 (L/4011)	3'3 1/8"	0.289 (L/240)	0.060 (6%)	D+L	L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details. READ ALL NOTES ON THIS PAGE AND ON THE
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.

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.



Snow

December 18, 2018

7 Lateral sl	enderness ratio based	on full section width.						
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	
1	Part. Uniform	0-0-0 to 6-5-10		Тор	15 PLF	40 PLF	0 PLF	
2	Point	0-2-12		Тор	1 lb	0 lb	0 lb	
3	Part. Uniform	0-10-12 to 3-6-12		Near Face	129 PLF	305 PLF	0 PLF	
4	Point	4-2-12		Near Face	171 lb	387 lb	0 lb	
5	Point	5-6-12		Near Face	94 lb	201 lb	0 lb	
	Self Weight				10 PLF			

0 PLF Passo Thru/Faranting Squash Block is required at all point loads over bearings

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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code

- approvals
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

APA: PR-L318

Wind

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400



Comments



Client: Project: Date: 12/17/2018 Designer: S B

Job Name: LOT 5 (AMELIA 3)

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

148

161

Snow

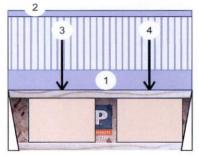
0

0

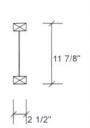
Project #:

F14-A LPI 20Plus 11.875" - PASSED

Level: Ground Floor



1 Hanger (LF2511) 2 Hanger (LF2511) 2'9 1/2" 2'9 1/2"



Wind

0

0

Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application: Floor (Residential)

Design Method: LSD

Building Code: NBCC 2010 / OBC 2012

Load Sharing: No

Deck: Not Checked

Not Checked

2 328

Live

304

Brg

1

Bearings and Factored Reactions Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 2.000" 40% 185 / 455 640 L 1.25D+1.5L Hanger 202 / 492 1.25D+1.5L 2 -2.000" Hanger

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	436 ft-lb	9 3/4"	6250 ft-lb	0.070 (7%)	1.25D+1.5L	L
Shear	689 lb	2'8 1/4"	2345 lb	0.294 (29%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/14174)	1'1 9/16"	0.086 (L/360)	0.030 (3%)	D	Uniform
LL Defl inch	0.004 (L/6920)	1'1 3/8"	0.086 (L/360)	0.050 (5%)	L	L
TL Defl inch	0.007 (L/4650)	1'1 7/16"	0.129 (L/240)	0.050 (5%)	D+L	L

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

IN THE DESIGN OF THIS COMPONENT.

CONTAINS SPECIFICATIONS AND CRITERIA USED

Vibration:

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.002", Long Term = 0.003"
- 3 Fill all hanger nailing holes.
- 4 See manufacture installation guide note E4 for installation details
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top flange braced at bearings.
- 7 Bottom flange braced at bearings

13	PROFESSIONAL	2
LICEA	I.MATUEVIC 100528832	NEER
12		2
•	DVINCE OF ONTE	

December 18, 2018

/ Dottoill	nange braced at bearings.						
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow
1	Tie-In	0-0-0 to 2-9-8	(Span)1-3-7	Тор	15 PSF	40 PSF	0 PSF
2	Part. Uniform	0-0-0 to 2-9-8		Тор	3 PLF	0 PLF	0 PLF
3	Point	0-9-12		Far Face	141 lb	291 lb	0 lb
4	Point	2-1-12		Far Face	133 lb	269 lb	0 lb

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

Comments

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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This design is valid until 10/31/2020

Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com CCMC: 12412-R APA: PR-L238C

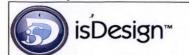
Wind

0 PSF

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400







Client:

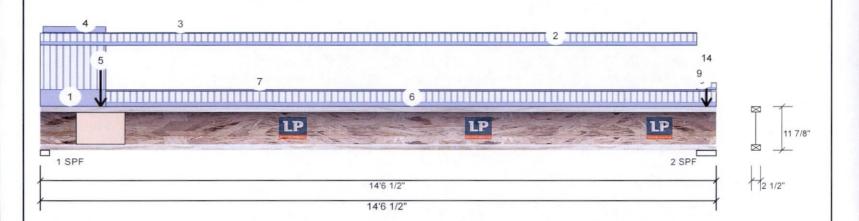
Project: Address Date: 12/17/2018

Designer: SB

Job Name: LOT 5 (AMELIA 3)

11.875" - PASSED LPI 20Plus

Level: Ground Floor



Member Info	rmation			Unfactore	ed React	tions UNPATTERN	ED lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	551	270	0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	547	275	0	0
Deflection LL:	360	Load Sharing:	No	17755				
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load								
Floor Live:	40 PSF			Bearings	and Fact	tored Reactions		
Dead:	15 PSF			Bearing L	_ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 2	2.375"	71% 338 / 827	1164 L	1.25D+1.5L
				2 - SPF 5	5.250"	64% 343 / 821	1164 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1834 ft-lb	6'1 1/8"	6250 ft-lb	0.293 (29%)	1.25D+1.5L	L
Shear	1144 lb	1 5/8"	2345 lb	0.488 (49%)	1.25D+1.5L	L
Perm Defl in.	0.056 (L/2990)	6'9 3/4"	0.468 (L/360)	0.120 (12%)	D	Uniform
LL Defl inch	0.115 (L/1461)	6'9 3/4"	0.468 (L/360)	0.250 (25%)	L	L
TL Defl inch	0.172 (L/982)	6'9 3/4"	0.702 (L/240)	0.240 (24%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Applied loads over end bearings and loads exceeding 250 lbs over intermediate bearings must be transferred directly to the support by rim board, blocking, squash blocks, or other device.
- 3 Dead Load Deflection: Instant = 0.056", Long Term = 0.084"
- 4 See manufacture installation guide note E4 for installation details
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top flange must be laterally braced at a maximum of 7'7" o.c.

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.



/ Bottom	flange braced at bearing	S.					THE RESERVE OF THE PARTY OF THE
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow
1	Tie-In	0-0-0 to 1-4-2	(Span)3-0-0 to 3-0-0	Тор	15 PSF	40 PSF	0 PSF
2	Tie-In	0-0-0 to 14-1-4	(Span)0-7-0	Тор	15 PSF	40 PSF	0 PSF
3	Part, Uniform	0-0-10 to 14-1-4		Тор	1 PLF	0 PLF	0 PLF
4	Part. Uniform	0-0-12 to 1-4-2		Тор	8 PLF	0 PLF	0 PLF
5	Point	1-2-14		Far Face	161 lb	328 lb	0 lb

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

Comments

0 PSF

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

Continued on page 2...

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed



Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com CCMC: 12412-R APA: PR-L238C

Manufacturer Info

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400







Client:

Project: Address: Date: 12/17/2018

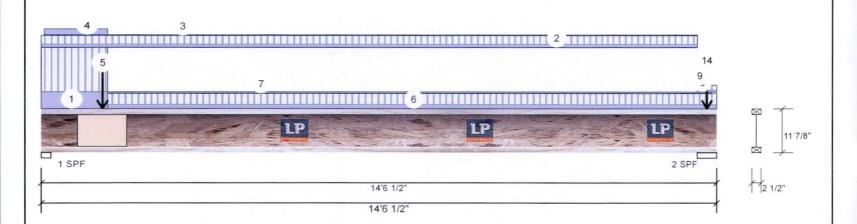
Designer: SB

Job Name: LOT 5 (AMELIA 3)

Project #:

F15-A LPI 20Plus 11.875" - PASSED

Level: Ground Floor



Continued from	m page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
6	Tie-In	1-4-2 to 14-6-8	(Span)0-9-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	1-4-2 to 14-5-1		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
8	Tie-In	14-1-4 to 14-6-8	(Span)0-4-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
9	Part. Uniform	14-1-4 to 14-5-1		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
10	Point	14-3-14		Тор	37 lb	98 lb	0 lb	0 lb	J1
	Bearing Length	0-1-8							
11	Point	14-3-14		Тор	51 lb	136 lb	0 lb	0 lb	J6
	Bearing Length	0-1-8							
12	Point	14-3-14		Тор	31 lb	80 lb	0 lb	0 lb	J1
	Bearing Length	0-1-8							
13	Point	14-3-14		Тор	4 lb	10 lb	0 lb	0 lb	J6
	Bearing Length	0-1-8							
14	Point	14-3-14		Тор	43 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-1-8							

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.



December 18, 2018

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

Notes

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This design is valid until 10/31/2020

Manufacturer Info

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Client: Project: Address

Date: Designer:

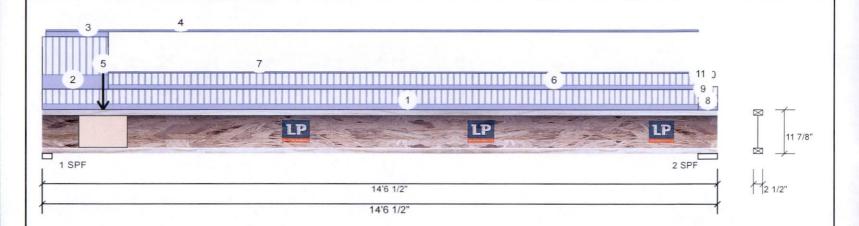
12/17/2018 SB

Job Name: LOT 5 (AMELIA 3)

Project #:

LPI 20Plus 11.875" - PASSED Level: Ground Floor

Unfactored Positions UNDATTERNED Ib (Unlift)



viember Inform	nation			Unfactored Reactions UNPATTERNED ID (Upilit)						
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind		
Plies:	1	Design Method:	LSD	1	632	311	0	0		
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012	2	327	162	0	0		
Deflection LL:	360	Load Sharing:	No	1						
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal	Vibration:	Not Checked							
General Load										
Floor Live:	40 PSF			Bearings a	and Facto	ored Reactions				
Dead:	15 PSF			Bearing L	ength.	Cap. React D/L lb	Total Ld. Case	Ld. Comb.		
				1 - SPF 2	.375"	82% 389 / 948	1336 L	1.25D+1.5L		
				2 - SPF 5	.250"	38% 202 / 491	694 L	1.25D+1.5L		

Analysis Results

Mambar Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2576 ft-lb	6'6 5/16"	6250 ft-lb	0.412 (41%)	1.25D+1.5L	L
Shear	1313 lb	1 5/8"	2345 lb	0.560 (56%)	1.25D+1.5L	L
Perm Defl in.	0.079 (L/2119)	6'11 3/16"	0.468 (L/360)	0.170 (17%)	D	Uniform
LL Defl inch	0.161 (L/1047)	6'11 3/16"	0.468 (L/360)	0.340 (34%)	L	L
TL Defl inch	0.240 (L/701)	6'11 3/16"	0.702 (L/240)	0.340 (34%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.079", Long Term = 0.119"
- 3 See manufacture installation guide note E4 for installation details
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange must be laterally braced at a maximum of 6'6" o.c.

6 Rottom flange braced at bearings

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.



December 18, 2018

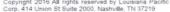
o Dottom hange	biacca at bearings.						
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow
1	Tie-In	0-0-0 to 14-1-4	(Span)1-2-0 to 1-2-0	Тор	15 PSF	40 PSF	0 PSF
2	Tie-In	0-0-0 to 1-4-2	(Span)3-0-0 to 3-0-0	Тор	15 PSF	40 PSF	0 PSF
3	Part. Uniform	0-0-14 to 1-4-2		Тор	8 PLF	0 PLF	0 PLF
4	Part. Uniform	0-0-15 to 14-1-4		Тор	3 PLF	0 PLF	0 PLF
5	Point	1-2-14		Near Face	148 lb	304 lb	0 lb
6	Tie-In	1-4-2 to 14-1-4	(Span)0-11-0	Тор	15 PSF	40 PSF	0 PSF

0 PLF Pass-Thru Framing Squash Block is required at all point loads over bearings 0 lb F14

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

Continued on page 2...

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Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com CCMC: 12412-R APA: PR-L238C

Wind

0 PSF

0 PSF

Comments

Kott Lumber Company 14 Anderson Blvd, Ontario Canada 14A7X4 905-642-4400







Client:

Project: Address:

12/17/2018 Date:

Designer: SB

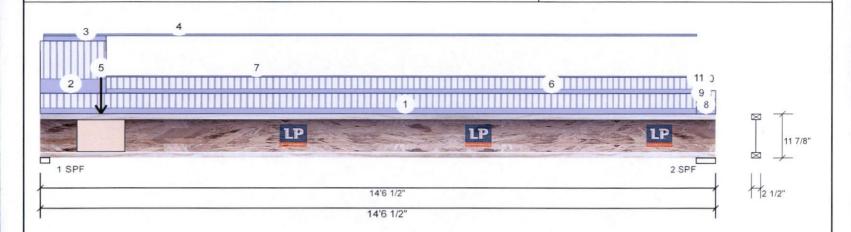
Job Name: LOT 5 (AMELIA 3)

Project #:

LPI 20Plus F15-B

11.875" - PASSED

Level: Ground Floor



٠.	.Continued from p	age 1								
	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	7	Part. Uniform	1-4-2 to 14-1-4		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
	8	Tie-In	14-1-4 to 14-6-8	(Span)0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	9	Tie-In	14-1-4 to 14-6-8	(Span)0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	10	Part. Uniform	14-1-4 to 14-5-5		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
	11	Part. Uniform	14-1-4 to 14-5-4		Тор	2 PLF	0 PLF	0 PLF	0 PLF	



December 18, 2018

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

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.



This design is valid until 10/31/2020

Manufacturer Info

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Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400







Client:

Project: Address: Date: 12/17/2018

Designer: SB

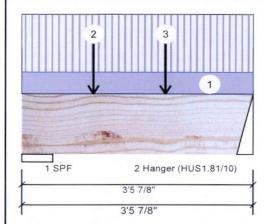
Job Name: LOT 5 (AMELIA 3)

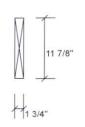
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Ground Floor





Wind

Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application: Floor (Residential) Design Method: LSD Building Code: NBCC 2010 / OBC 2012 Load Sharing: No

Not Checked Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift)

1	360	170	0	0
2	259	122	0	0

Dead

Bearings and Factored Reactions

Live

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	13%	213 / 540	753	L	1.25D+1.5L
2 - Hanger	3.000"	14%	152 / 389	541	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	485 ft-lb	1'11 1/4"	17130 ft-lb	0.028 (3%)	1.25D+1.5L	L
Unbraced	485 ft-lb	1'11 1/4"	13987 ft-lb	0.035 (3%)	1.25D+1.5L	L
Shear	526 lb	1'4 5/8"	5798 lb	0.091 (9%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/36212)	1'10 7/16"	0.097 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.002 (L/17367)	1'10 5/16"	0.097 (L/360)	0.020 (2%)	L	L
TL Defl inch	0.003 (L/11738)	1'10 5/16"	0.145 (L/240)	0.020 (2%)	D+L	L

Deck:

Vibration:



December 18, 2018

Design Notes

- 1 Fill all hanger nailing holes.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Top braced at bearings.
- 4 Bottom braced at bearings

4 DOLLOIN	braced at bearings.								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-5-14		Тор	30 PLF	80 PLF	0 PLF	0 PLF	
2	Point	1-0-12		Far Face	102 lb	206 lb	0 lb	0 lb	J4
3	Point	2-1-12		Far Face	69 lb	134 lb	0 lb	0 lb	J2
	Self Weight				5 PLF				ru Framing

raming Squash Block is required at all point loads over bearings

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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

andling & Installation
LVL beams must not be cut or drilled
Refer to manufacturer's product information
regarding installation requirements, multi-ply
fastening details, beam strength values, and code
approvals
Damaged Beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

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.

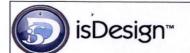
6. For flat roofs provide proper drainage to prevent

Manufacturer Info

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400







Project:

Address:

Date: 12/17/2018

SB Designer:

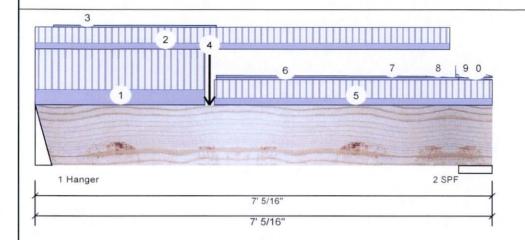
Job Name: LOT 5 (AMELIA 3)

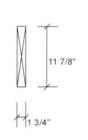
Project #

Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Ground Floor





Wind

0

0

Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

199

156

Live

410

Bearings and Factored Reactions										
Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.				
1 -	3.000"	22%	248 / 615	864	L	1.25D+1.5L				

Analysis Results

15 PSF

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1478 ft-lb	2'7 7/16"	17130 ft-lb	0.086 (9%)	1.25D+1.5L	L
Unbraced	1478 ft-lb	2'7 7/16"	7067 ft-lb	0.209 (21%)	1.25D+1.5L	L
Shear	649 lb	1'2 1/8"	5798 lb	0.112 (11%)	1.25D+1.5L	L
Perm Defl in.	0.006 (L/11753)	3' 11/16"	0.212 (L/360)	0.030 (3%)	D	Uniform
LL Defl inch	0.013 (L/5910)	3' 1/8"	0.212 (L/360)	0.060 (6%)	L	L
TI Deflinch	0.019 (L/3933)	3' 5/16"	0.318 (L/240)	0.060 (6%)	D+L	L

- cu g.	carrigs and ractorea reactions											
Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.	_					
1 - Hanger	3.000"	22%	248 / 615	864	L	1.25D+1.5L						
2 - SPF	6.438"	9%	195 / 442	637	L	1.25D+1.5L						

Design Notes

- 1 Fill all hanger nailing holes.

2 Girders are designed to be supported on the bottom edge only. 3 Top braced at bearings.

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.

Brg

1

2



Snow

0

December 18, 2018

4 Bottom braced	at bearings.						
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow
1	Tie-In	0-0-0 to 2-6-9	(Span)3-1-13	Тор	15 PSF	40 PSF	0 PSF
2	Tie-In	0-0-0 to 6-4-2	(Span)1-3-0	Тор	15 PSF	40 PSF	0 PSF
3	Part. Uniform	0-3-4 to 2-8-10		Тор	3 PLF	0 PLF	0 PLF
4	Point	2-7-7		Far Face	122 lb	259 lb	0 lb
5	Tie-In	2-8-5 to 7-0-5	(Span)1-5-0	Тор	15 PSF	40 PSF	0 PSF
6	Part. Uniform	2-8-10 to 6-5-14		Тор	4 PLF	0 PLF	0 PLF
7	Tapered Start	2-8-10		Тор	3 PLF	0 PLF	0 PLF

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

Continued on page 2...

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- andling & Installation
 LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent

Manufacturer Info

0 PSF 0 PSF 0 PLF

> Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400









Client

Project: Address

12/17/2018 Date:

Designer: SB

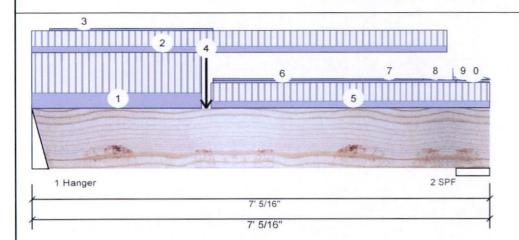
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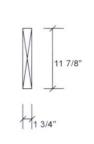
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Ground Floor





Continued from pa	age 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	End	5-11-10			2 PLF	0 PLF	0 PLF	0 PLF	
8	Tapered Start	5-11-10		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
	End	6-4-2			0 PLF	0 PLF	0 PLF	0 PLF	
9	Tie-In	6-5-4 to 7-0-5	(Span)0-7-13 to 0-0-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
10	Tapered Start	6-5-14		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
	End	7-0-5			1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				5 PLF				



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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- andling & Installation

 LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

- 6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





Client

Project: Address: Date: 12/17/2018

Designer: SB

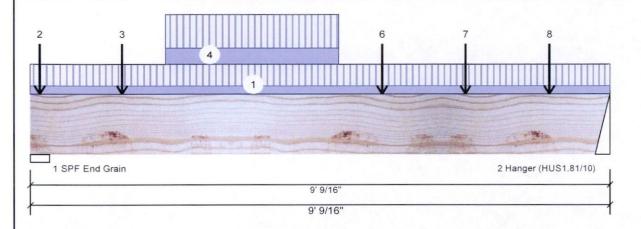
Job Name: LOT 5 (AMELIA 3)

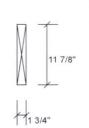
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Ground Floor





Wind

Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		
	17		

Unfactored Reactions UNPATTERNED Ib (Uplift)

1	1200	535	0	0
2	1290	544	0	0

Dead

Snow

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5061 ft-lb	5'4 3/4"	17130 ft-lb	0.295 (30%)	1.25D+1.5L	L
Unbraced	5061 ft-lb	5'4 3/4"	5210 ft-lb	0.971 (97%)	1.25D+1.5L	L
Shear	2425 lb	7'10 7/16"	5798 lb	0.418 (42%)	1.25D+1.5L	L
Perm Defl in.	0.035 (L/2951)	4'8 1/8"	0.288 (L/360)	0.120 (12%)	D	Uniform
LL Defl inch	0.081 (L/1283)	4'8 9/16"	0.288 (L/360)	0.280 (28%)	L	L
TL Defl inch	0.116 (L/894)	4'8 7/16"	0.432 (L/240)	0.270 (27%)	D+L	L

Bearings and Factored Reactions

Live

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	54%	668 / 1800	2468	L	1.25D+1.5L
2 - Hanger	3.000"	67%	680 / 1936	2616	L	1.25D+1.5L

Wind

0 PSF

0 lb C4

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Fill all hanger nailing holes.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.

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.

Brg



December 18, 2018

5 Bottom braced at bearings.								_	
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow		
1	Tie-In	0-0-0 to 9-0-9	(Span)3-11-7 to 3-11-7	Тор	15 PSF	40 PSF	0 PSF		
2	Point	0-1-12		Тор	110 lb	248 lb	0 lb		
3	Point	1-4-12		Far Face	77 lb	158 lb	0 lb		
4	Part. Uniform	2-0-12 to 4-8-12		Far Face	59 PLF	123 PLF	0 PLF		
6	Point	5-4-12		Far Face	126 lb	296 lb	0 lb		
7	Point	6-8-12		Far Face	156 lb	393 lb	0 lb		
ontinued o	n page 2								

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

Comments

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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- andling & Installation
 LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





Client: Project: Address: Date: 12/17/2018

Designer: SB

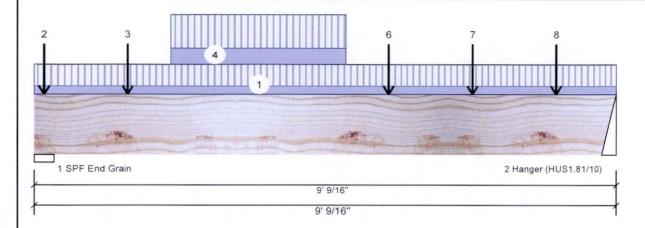
Job Name: LOT 5 (AMELIA 3)

Project #

Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Ground Floor



.Continued from page 1

ID Load Type Point 8

8-0-12

Location Trib Width

Side Far Face

Dead 141 lb

Live Snow 352 lb 0 lb Wind Comments 0 lb J10

Self Weight 5 PLF

> PROFESSIONAL I.MATIJEVIC 100528832 SHOWINGE OF ONTARIO December 18, 2018

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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Handling & Installation

- Andling & Installation
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 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

APA: PR-L318

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





Client

Project: Address: Date: 12/17/2018

SB Designer:

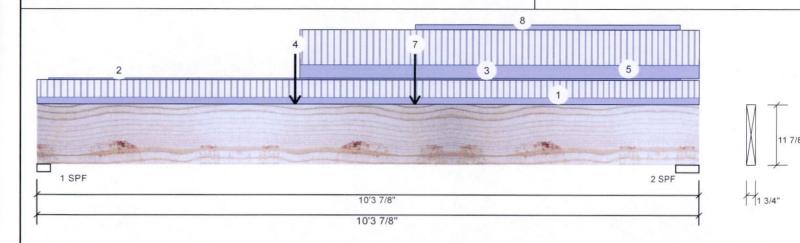
Job Name: LOT 5 (AMELIA 3)

Project #

Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Ground Floor

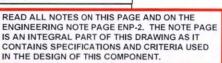


Member Inform	nation			Unfacto	red React	tions L	JNPATTERNI	ED lb (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Live		Dead	Snow	,	Wind
Plies:	1	Design Method:	LSD	1	949		425	()	0
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012	2	722		334	()	0
Deflection LL:	360	Load Sharing:	No	1 222						
Deflection TL:	240	Deck:	Not Checked	-						
Importance:	Normal	Vibration:	Not Checked							
General Load										
Floor Live:	40 PSF			Bearings	and Fac	tored	Reactions			
Dead:	15 PSF			Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 - SPF	2.375"	76%	531 / 1424	1955	L	1.25D+1.5L
Analysis Posult				2 - SPF	4.500"	31%	417 / 1083	1501	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7161 ft-lb	3'10 7/8"	17130 ft-lb	0.418 (42%)	1.25D+1.5L	L
Unbraced	7161 ft-lb	3'10 7/8"	7194 ft-lb	0.995 (100%)	1.25D+1.5L	L
Shear	1924 lb	1'1 1/2"	5798 lb	0.332 (33%)	1.25D+1.5L	L
Perm Defl in.	0.054 (L/2188)	4'7 7/8"	0.329 (L/360)	0.160 (16%)	D	Uniform
LL Defl inch	0.123 (L/965)	4'7 11/16"	0.329 (L/360)	0.370 (37%)	L	L
TL Defl inch	0.177 (L/670)	4'7 3/4"	0.494 (L/240)	0.360 (36%)	D+L	L

Design Notes READ ALL NOTES ON THIS PAGE AND ON THE 1 Girders are designed to be supported on the bottom edge only. IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED 2 Top must be laterally braced at a maximum of 6'3" o.c. 3 Bottom braced at bearings.



10	1 1 7		T 11 145 III	- Property		and the supplementary of	
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow
1	Tie-In	0-0-0 to 10-3-14	(Span)0-6-5	Тор	15 PSF	40 PSF	0 PSF
2	Part. Uniform	0-2-1 to 2-3-1		Тор	1 PLF	0 PLF	0 PLF
3	Part. Uniform	2-3-1 to 10-0-4		Тор	1 PLF	0 PLF	0 PLF
4	Point	3-10-14		Far Face	544 lb	1290 lb	0 lb
5	Tie-In	3-11-12 to 10-3-14	(Span)1-0-11	Тор	15 PSF	40 PSF	0 PSF
6	Point	5-9-3		Тор	48 lb	127 lb	0 lb
7	Point	5-9-3		Тор	4 lb	12 lb	0 lb
8	Part. Uniform	5-9-5 to 10-0-3		Тор	3 PLF	0 PLF	O PLE
	Self Weight				5 PLF		re

0 lb Detail for ply to ply nailing or bolting

Manufacturer Info

requirements

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

LICENSED

Comments

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December 18, 2018

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- For flat roofs provide proper drainage to prevent ponding

Wina

0 PSF

0 PLF

0 PLF

0 lb 0 PSF

> Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





Client

Project: Address Date: 12/17/2018

Designer: SB

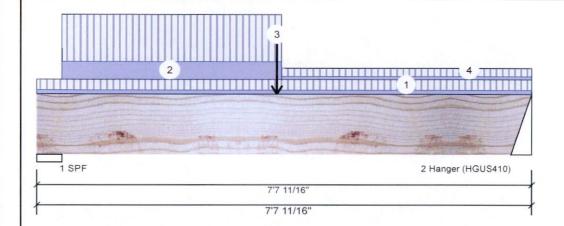
Job Name: LOT 5 (AMELIA 3)

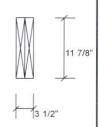
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED Level: Second Floor





Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application: Floor (Residential) Design Method: LSD NBCC 2010 / OBC 2012 Building Code: Load Sharing: No

Not Checked Not Checked Unfactored Reactions UNPATTERNED Ib (Uplift) Brg

Live	Dead	Snow	Wind
489	224	0	0
372	179	0	0

Bearings and Factored Reactions

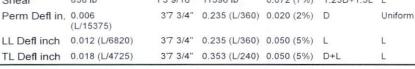
Bearing	Length	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	4.467"	11%	280 / 733	1013	L	1.25D+1.5L
2 -	4.000"	8%	224 / 558	782	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2402 ft-lb	3'7 11/16"	34261 ft-lb	0.070 (7%)	1.25D+1.5L	L
Unbraced	2402 ft-lb	3'7 11/16"	31940 ft-lb	0.075 (8%)	1.25D+1.5L	L
Shear	838 lb	1'3 9/16"	11596 lb	0.072 (7%)	1.25D+1.5L	L
Perm Defl in.	0.006 (L/15375)	3'7 3/4"	0.235 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.012 (L/6820)	3'7 3/4"	0.235 (L/360)	0.050 (5%)	L	L
TL Defl inch	0.018 (L/4725)	3'7 3/4"	0.353 (L/240)	0.050 (5%)	D+L	L

Deck:

Vibration:



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.

1

2



December 18, 2018

4	Тор	loads must be supported equally by all plies.
5	Тор	braced at bearings.

Design Notes

6 Bottom braced at bearings.

1 Fill all hanger nailing holes.

7 Lateral slenderness ratio based on full section width.

2 Girders are designed to be supported on the bottom edge only. 3 Multiple plies must be fastened together as per manufacturer's details.

ID Load Type Trib Width Dead Location Live Snow 0-0-0 to 7-7-11 (Span)0-9-0 15 PSF 40 PSF 0 PSF Top 1 Tie-In 0-4-7 to 3-8-9 (Span)3-4-0 15 PSF 40 PSF 0 PSF Top 3 Point 3-7-11 Near Face 187 lb 477 lb 0 lb Tie-In 3-8-9 to 7-7-11 (Span)0-7-0 Top 15 PSF 40 PSF 0 PSF Self Weight 10 PLF

0 PSF

Comments

Wind

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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Andling & Installation
 LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

- 6. For flat roofs provide proper drainage to prevent

Manufacturer Info

APA: PR-L318

Kott Lumber Company 14 Anderson Blvd. Ontario Canada L4A 7X4 905-642-4400





Client

Project: Address Date: 12/17/2018

Designer: SB

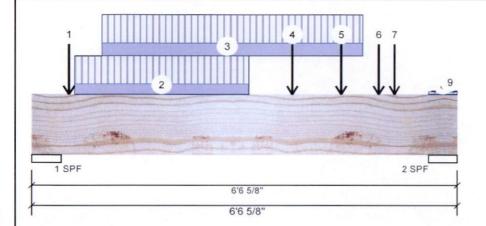
Job Name: LOT 5 (AMELIA 3)

Project #:

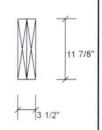
Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED Level: Second Floor



Deck:



Wind

0

Member Information

Type.	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Floor (Residential) Application: LSD Design Method: NBCC 2010 / OBC 2012 Building Code: Load Sharing: No

Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

715

Analysis Results

Ī	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	
	Moment	4870 ft-lb	3'3 5/8"	34261 ft-lb	0.142 (14%)	1.25D+1.5L	L	
	Unbraced	4870 ft-lb	3'3 5/8"	32706 ft-lb	0.149 (15%)	1.25D+1.5L	L	
	Shear	3588 lb	5'2"	11596 lb	0.309 (31%)	1.25D+1.5L	L	
	Perm Defl in.	0.009 (L/7425)	3'3 5/8"	0.193 (L/360)	0.050 (5%)	D	Uniform	
	LL Defl inch	0.021 (L/3252)	3'3 7/16"	0.193 (L/360)	0.110 (11%)	L	L	
	TL Defl inch	0.031 (L/2262)	3'3 1/2"	0.289 (L/240)	0.110 (11%)	D+L	L	

Bearings and Factored Reactions

Live

1641

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	30%	894 / 2461	3355	L	1.25D+1.5L
2 - SPF	5.500"	26%	831 / 2211	3042	L	1.25D+1.5L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

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.



Snow

0

December 18, 2018

6 Lateral	slenderness ratio based	on full section width.					
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow
1	Point	0-6-10		Far Face	111 lb	256 lb	0 lb
2	Part. Uniform	0-7-10 to 3-3-10		Near Face	105 PLF	280 PLF	0 PLF
3	Part, Uniform	1-0-10 to 5-0-10		Far Face	127 PLF	286 PLF	0 PLF
4	Point	3-11-10		Near Face	111 lb	296 lb	0 lb
5	Point	4-8-10		Near Face	179 lb	372 lb	0 lb
6	Point	5-3-10		Near Face	25 lb	67 lb	0 lb

Pass-Thru Framing Squash Block is required at all point loads over bearings 0 lb F11

Comments

J1

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

Continued on page 2...

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled.

 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals.

 Damaged Beams must not be used.

 Design assumes top edge is laterally restrained. Provide lateral support at bearing points to avoid lateral displacement and rotation.

For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400



Wind

0 lb

0 PLF







Client:

Project: Address: Date: 12/17/2018

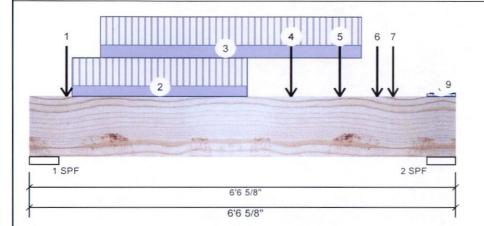
Designer: SB Job Name: LOT 5 (AMELIA 3)

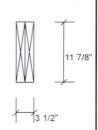
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED Level: Second Floor





Continued from	page 1	
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C-CHEATEROUS PROBLEMS SAN CHEST AND AND									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
7	Point	5-6-10		Far Face	99 lb	221 lb	0 lb	0 lb	J1
8	Tie-In	6-1-2 to 6-6-10	(Span)1-0-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
9	Tie-In	6-1-11 to 6-6-10	(Span)0-3-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				10 PLF				



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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

- Handling & Installation
- andling & Installation

 LVL beams must not be cut or dnlled

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 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





Client:

Project: Address: Date: 12/17/2018

Designer: SB

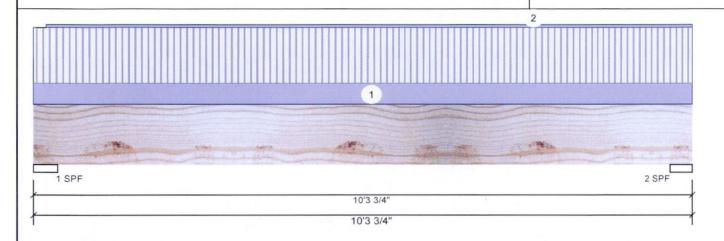
Job Name: LOT 5 (AMELIA 3)

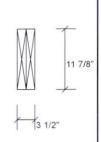
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED Level: Second Floor





Member Information

vicinibel information							
Туре:	Girder						
Plies:	2						
Moisture Condition:	Dry						
Deflection LL:	360						
Deflection TL:	240						
Importance:	Normal						
General Load							
Floor Live:	40 PSF						

15 PSF

Application: Floor (Residential) Design Method:

NBCC 2010 / OBC 2012 **Building Code:**

Load Sharing: No

Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	VVind
1	97	91	0	0
2	97	91	0	0

Bearings and Factored Reactions

Bearing Lo	ength Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 4.	375" 3%	113 / 146	259	L	1.25D+1.5L
2 - SPF 4.	375" 3%	113 / 146	259	L	1.25D+1.5L

Analysis Results

Dead

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	592 ft-lb	5'1 7/8"	34261 ft-lb	0.017 (2%)	1.25D+1.5L	L
Unbraced	592 ft-lb	5'1 7/8"	29876 ft-lb	0.020 (2%)	1.25D+1.5L	L
Shear	194 lb	9' 1/4"	11596 lb	0.017 (2%)	1.25D+1.5L	L
Perm Defl in.	0.004 (L/27908)	5'1 7/8"	0.324 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.004 (L/26047)	5'1 7/8"	0.324 (L/360)	0.010 (1%)	L	L
TL Defl inch	0.009 (L/13473)	5'1 7/8"	0.485 (L/240)	0.020 (2%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on full section width.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-3-12	(Span)0-11-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part, Uniform	0-2-5 to 10-3-12		Тор	1 PLF	0 PLF	0 PLF		Framing Squas
	Self Weight	READ ALL NOTES O	ON THIS PAGE A	ND ON THE	0 PLF			required at	all point loads
		ENGINEERING NOT IS AN INTEGRAL PA CONTAINS SPECIFIC	ART OF THIS DR	AWING AS I	Т				ultiple Member bly to ply nailing

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December 18, 2018

sh Block is s over bearings

r Connection Detail for ply to ply nailing or bolting requirements

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation

IN THE DESIGN OF THIS COMPONENT.

- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- approvals
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





Client:

Project: Address:

12/17/2018 Date:

Designer: S B

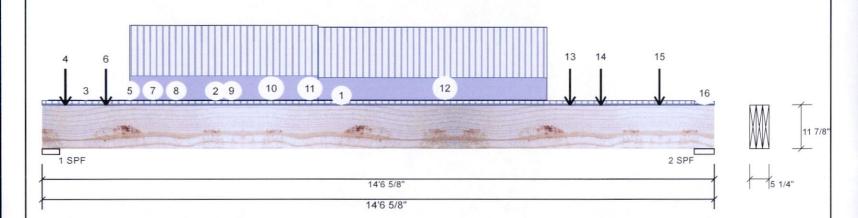
Job Name: LOT 5 (AMELIA 3)

Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

3-Ply - PASSED Level: Second Floor



lember Information					Unfactored Reactions UNPATTERNED Ib (Uplift)				
Туре:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind	
Plies:	3	Design Method:	LSD	1	2079	1064	0	0	
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	2002	945	0	0	
Deflection LL:	360	Load Sharing:	Yes						
Deflection TL:	240	Deck:	Not Checked						
Importance:	Normal	Vibration:	Not Checked						
General Load									
Floor Live:	40 PSF			Bearings	s and Fac	tored Reactions			
Dead:	15 PSF			Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.	
				1 - SPF	4.375"	31% 1330 / 3118	4449 L	1.25D+1.5L	
				2 - SPF	5.500"	24% 1181 / 3003	4185 L	1.25D+1.5L	

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	14991 ft-lb	7'2 3/8"	53447 ft-lb	0.280 (28%)	1.25D+1.5L	L
Unbraced	14991 ft-lb	7'2 3/8"	50470 ft-lb	0.297 (30%)	1.25D+1.5L	L
Shear	4377 lb	1'3 1/2"	17394 lb	0.252 (25%)	1.25D+1.5L	L
Perm Defl in.	0.089 (L/1875)	7'2 5/16"	0.462 (L/360)	0.190 (19%)	D	Uniform
LL Defl inch	0.180 (L/922)	7'2 7/8"	0.462 (L/360)	0.390 (39%)	L	L
TL Defl inch	0.269 (L/618)	7'2 5/8"	0.693 (L/240)	0.390 (39%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

6. Lateral slenderness ratio based on full section 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.



December 18, 2018

6 Lateral	sienderness ratio based	on full section width.						
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	
1	Tie-In	0-0-0 to 14-1-4	(Span)0-10-8	Тор	15 PSF	40 PSF	0 PSF	
2	Part. Uniform	0-1-9 to 5-11-10		Тор	2 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-1-9 to 1-3-13		Тор	1 PLF	0 PLF	0 PLF	
4	Point	0-5-13		Far Face	92 lb	190 lb	0 lb	
5	Part. Uniform	1-3-13 to 2-3-13		Тор	1 PLF	0 PLF	0 PLF	
6	Point	1-3-13		Far Face	123 lb	255 lb	0 lb	
Continued o	n page 2							

Pass-Thru Framing Squash Block is required at all point loads over bearings 0 PLF

Comments

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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- andling & Installation
 LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

APA: PR-L318

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400



Wind

0 PSF 0 PLF OPLE





Client

Project: Address: Date: 12/17/2018

Designer: SB

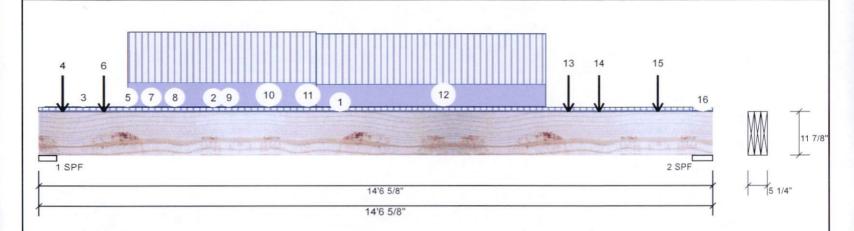
Job Name: LOT 5 (AMELIA 3)

Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

3-Ply - PASSED Level: Second Floor



Continued fr	rom page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
7	Part. Uniform	1-9-13 to 5-9-13		Far Face	132 PLF	278 PLF	0 PLF	0 PLF	
8	Part. Uniform	2-3-13 to 3-3-13		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
9	Part. Uniform	3-3-13 to 4-3-13		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
10	Part. Uniform	4-3-13 to 5-3-13		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
11	Part. Uniform	5-3-13 to 5-11-10		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
12	Part. Uniform	5-9-13 to 10-9-13		Far Face	122 PLF	278 PLF	0 PLF	0 PLF	
13	Point	11-3-13		Far Face	93 lb	232 lb	0 lb	0 lb	J1
14	Point	11-11-13		Far Face	104 lb	278 lb	0 lb	0 lb	J1
15	Point	13-3-13		Far Face	139 lb	371 lb	0 lb	0 lb	J1
16	Tie-In	14-1-4 to 14-6-10	(Span)0-8-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				14 PLF				



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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used

- Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400





Client:

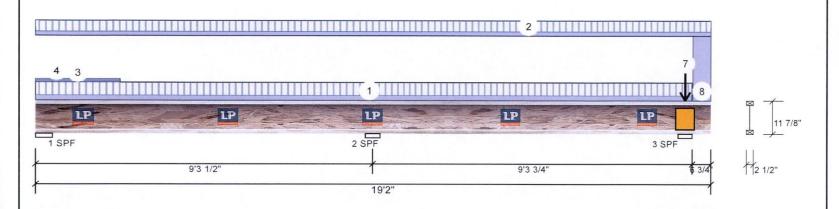
Project: Address: Date: 12/17/2018

SB Designer:

Job Name: LOT 5 (AMELIA 3)

Project #

LPI 20Plus 11.875" - PASSED Level: Second Floor



Member Information Туре Plies: 1 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Vibration: Normal

40 PSF

15 PSF

Application: Floor (Residential) Design Method: LSD Building Code: NBCC 2010 / OBC 2012 Load Sharing: No Deck:

Not Checked Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind
1	116	52	1	0
2	322	117	0 (-4)	0
3	331	338	201	0

Bearings and Factored Reactions

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.	
1 - SPF	5.500"	14%	64 / 193	257	L	1.25D+1.5L	
2 - SPF	5.000"	16%	148 / 502	650	LL_	1.25D+1.5L	
3 - SPF	5.000"	34%	421 / 617	1038	_LL	1.25D+1.5L +0.5S	

Analysis Results

General Load

Floor Live:

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-575 ft-lb	9'3 1/2"	6250 ft-lb	0.092 (9%)	1.25D+1.5L	LL_
Pos Moment	428 ft-lb	4'1 15/16"	5500 ft-lb	0.078 (8%)	1.25D+1.5L	L
Shear	656 lb	18'7 1/4"	1853 lb	0.354 (35%)	1.25D+1.5S	_L
Perm Defl in.	0.005 (L/22195)	4'5 3/4"	0.297 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.015 (L/6927)	4'8 1/2"	0.297 (L/360)	0.050 (5%)	L+0.5S	L_L
TL Defl inch	0.020 (L/5283)	4'7 13/16"	0.445 (L/240)	0.050 (5%)	D+L+0.5S	L_L
LL Cant	-0.002 (2L/5898)	Rt Cant	0.200 (2L/480)	0.011 (1%)	L	_L_
TL Cant	0.002 (2L/5522)	Rt Cant	0.300 (2L/360)	0.008 (1%)	D+L+0.5S	L_L
	Neg Moment Pos Moment Shear Perm Defl in. LL Defl inch TL Defl inch LL Cant	Perm Defl in. 0.005 (L/22195) LL Defl inch 0.015 (L/6927) TL Defl inch 0.020 (L/5283) LL Cant -0.002 (2L/5898) TL Cant 0.002	Neg Moment -575 ft-lb 9'3 1/2" Pos Moment 428 ft-lb 4'1 15/16" Shear 656 lb 18'7 1/4" Perm Defl in. 0.005 (L/22195) 4'5 3/4" LL Defl inch 0.015 (L/6927) 4'8 1/2" TL Defl inch 0.020 (L/5283) 4'7 13/16" LL Cant -0.002 (2L/5898) Rt Cant TL Cant 0.002 Rt Cant	Neg Moment -575 ft-lb 9'3 1/2" 6250 ft-lb Pos Moment 428 ft-lb 4'1 15/16" 5500 ft-lb Shear 656 lb 18'7 1/4" 1853 lb Perm Defl in. 0.005 (L/22195) 4'5 3/4" 0.297 (L/360) LL Defl inch 0.015 (L/6927) 4'8 1/2" 0.297 (L/360) TL Defl inch 0.020 (L/5283) 4'7 13/16" 0.445 (L/240) LL Cant -0.002 (2L/5898) Rt Cant 0.200 (2L/480) TL Cant 0.002 Rt Cant 0.300	Neg Moment -575 ft-lb 9'3 1/2" 6250 ft-lb 0.092 (9%) Pos Moment 428 ft-lb 4'1 15/16" 5500 ft-lb 0.078 (8%) Shear 656 lb 18'7 1/4" 1853 lb 0.354 (35%) Perm Defl in. 0.005 (L/22195) 4'5 3/4" 0.297 (L/360) 0.020 (2%) LL Defl inch 0.015 (L/6927) 4'8 1/2" 0.297 (L/360) 0.050 (5%) TL Defl inch 0.020 (L/5283) 4'7 13/16" 0.445 (L/240) 0.050 (5%) LL Cant -0.002 (2L/5898) Rt Cant 0.200 (2L/480) 0.011 (1%) TL Cant 0.002 Rt Cant 0.300 0.008 (1%)	Neg Moment -575 ft-lb 9'3 1/2" 6250 ft-lb 0.092 (9%) 1.25D+1.5L Pos Moment 428 ft-lb 4'1 15/16" 5500 ft-lb 0.078 (8%) 1.25D+1.5L Shear 656 lb 18'7 1/4" 1853 lb 0.354 (35%) 1.25D+1.5S Perm Defl in. 0.005 4'5 3/4" 0.297 (L/360) 0.020 (2%) D LL Defl inch 0.015 (L/6927) 4'8 1/2" 0.297 (L/360) 0.050 (5%) L+0.5S TL Defl inch 0.020 (L/5283) 4'7 13/16" 0.445 (L/240) 0.050 (5%) D+L+0.5S LL Cant -0.002 (2L/5898) Rt Cant 0.200 (2L/480) 0.011 (1%) L TL Cant 0.002 Rt Cant 0.300 0.008 (1%) D+L+0.5S

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Applied loads over end bearings and loads exceeding 250 lbs over intermediate bearings must be transferred directly to the support by rim board, blocking, squash blocks, or other
- 3 Dead Load Deflection: Instant = 0.005", Long Term = 0.007"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange braced at bearings.
- 6 Bottom flange braced at bearings

December 18, 2018

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

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

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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This design is valid until

Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com CCMC: 12412-R APA: PR-L238C Kott Lumber Company 14 Anderson Blvd, Ontario L4A 7X4 905-642-4400







Client:

Project: Address: Date: 12/17/2018

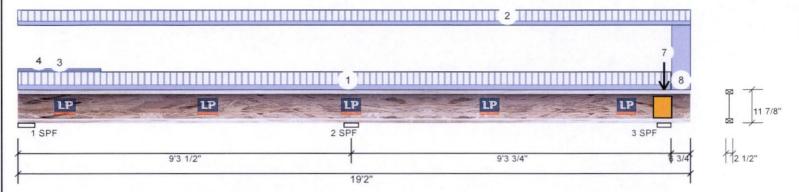
Designer: S B

Job Name: LOT 5 (AMELIA 3)

Project #:

F16-A LPI 20Plus 11.875" - PASSED

Level: Second Floor



1				19'2	2"				1
ID L	oad Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1 T	īe-In	0-0-0 to 18-7-3	(Span)0-9-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2 T	ie-In	0-0-0 to 19-2-0	(Span)0-8-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3 P	Part. Uniform	0-0-0 to 2-3-5		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
4 P	Part, Uniform	0-0-0 to 2-3-5		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
5 P	Point	18-4-12		Тор	199 lb	204 lb	197 lb	0 lb	F2 F2
В	Bearing Length	0-1-8							
6 F	Point	18-4-12		Тор	7 lb	0 lb	0 lb	0 lb	Wall Self Weight
В	Bearing Length	0-1-8							
7 F	Point	18-4-12		Тор	36 lb	0 lb	0 lb	0 lb	Wall Self Weight
В	Bearing Length	0-1-8							
8 F	Part. Uniform	18-7-8 to 19-2-0		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight



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

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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READ ALL NOTES ON THIS PAGE AND ON THE

IN THE DESIGN OF THIS COMPONENT.

ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT

CONTAINS SPECIFICATIONS AND CRITERIA USED

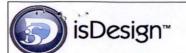
This design is valid until 10/31/2020

Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com CCMC: 12412-R APA: PR-L238C Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400







Client:

Project: Address Date: 12/17/2018

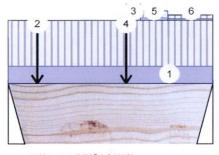
Designer: SB Job Name: LOT 5 (AMELIA 3)

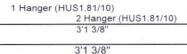
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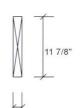
Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Second Floor







Wind

0

0

Memb	er Info	ormation
------	---------	----------

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

187

176

Live

477

449

Bearings and Factored Reactions								
Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.		
1 - Hanger	3.000"	24%	233 / 716	949	L	1.25D+1.5L		
2 - Hanger	3.000"	23%	220 / 674	894	L	1.25D+1.5L		

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	568 ft-lb	1'8 1/8"	17130 ft-lb	0.033 (3%)	1.25D+1.5L	L
Unbraced	568 ft-lb	1'8 1/8"	14337 ft-lb	0.040 (4%)	1.25D+1.5L	L
Shear	386 lb	1'2 1/8"	5798 lb	0.067 (7%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/35583)	1'7 9/16"	0.091 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.002 (L/13914)	1'7 9/16"	0.091 (L/360)	0.030 (3%)	L	L
TL Defl inch	0.003 (L/10003)	1'7 9/16"	0.137 (L/240)	0.020 (2%)	D+L	L

Design Notes

- 1 Fill all hanger nailing holes.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Top braced at bearings.
- 4 Bottom braced at bearings

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.

Brg

1

2



Snow

0

0

December 18, 2018

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow
1	Part. Uniform	0-0-0 to 3-1-6		Тор	90 PLF	240 PLF	0 PLF
2	Point	0-5-4		Far Face	28 lb	74 lb	0 lb
3	Tie-In	1-9-4 to 1-11-14	(Span)3-1-11 to 3-1-11	Тор	15 PSF	40 PSF	0 PSF
4	Point	1-9-4		Far Face	23 lb	61 lb	0 lb
5	Tie-In	1-11-14 to 2-5-0	(Span)1-9-11	Тор	15 PSF	40 PSF	0 PSF
6	Tie-In	2-5-0 to 3-1-6	(Span)1-0-11	Тор	15 PSF	40 PSF	0 PSF
	Self Weight				5 PLF		

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

Comments

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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent

Manufacturer Info

APA: PR-L318

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400



Wind

0 PLF 0 lb .19





Client: Project: Address

Date:

12/17/2018 SB Designer:

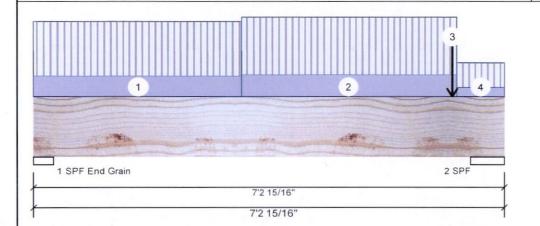
Job Name: LOT 5 (AMELIA 3)

Project #:

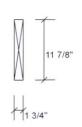
Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Second Floor



Building Code:



Member Information

icinibel milotii	id ti Oii
Туре:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
General Load	
Floor Live:	40 PSF

15 PSF

Application: Floor (Residential) Design Method: LSD

NBCC 2010 / OBC 2012

Load Sharing: No Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	vvina
1	248	110	0	0
2	643	266	0	0

Bearings and Factored Reactions

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.	
1 - SPF End Grain	3.500"	11%	138 / 372	510	L	1.25D+1.5L	
2 - SPF	6.438"	19%	333 / 965	1298	L	1.25D+1.5L	

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	884 ft-lb	3'10 9/16"	17130 ft-lb	0.052 (5%)	1.25D+1.5L	L
Unbraced	884 ft-lb	3'10 9/16"	6876 ft-lb	0.129 (13%)	1.25D+1.5L	L
Shear	1154 lb	5'9 3/8"	5798 lb	0.199 (20%)	1.25D+1.5L	L
Perm Defl in.	0.004 (L/19225)	3'7 3/4"	0.218 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.009 (L/8390)	3'7 15/16"	0.218 (L/360)	0.040 (4%)	L	L
TL Defl inch	0.013 (L/5841)	3'7 7/8"	0.327 (L/240)	0.040 (4%)	D+L	L

Design Notes

1 Girders are designed to be supported on the bottom edge only.

2 Top braced at bearings.

3 Bottom	braced at bearings.								_
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	
1	Tie-In	0-0-0 to 3-1-12	(Span)3-1-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	3-1-12 to 6-5-14	(Span)3-4-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	6-5-0		Far Face	176 lb	449 lb	0 lb	0 lb	F6
4	Tie-In	6-5-14 to 7-2-15	(Span)1-5-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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.

PROFESSIONAL I.MATIJEVIC 100528832 VINCE OF ONTARO

December 18, 2018

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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, it is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Self Weight

- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product informat regarding installation requirements, multi-fastening details, beam strength values, and co
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation
- For flat roofs provide proper drainage to prevent ponding

5 PLF

Manufacturer Info

APA: PR-L318

Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400



