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.

<u>CODE</u>

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

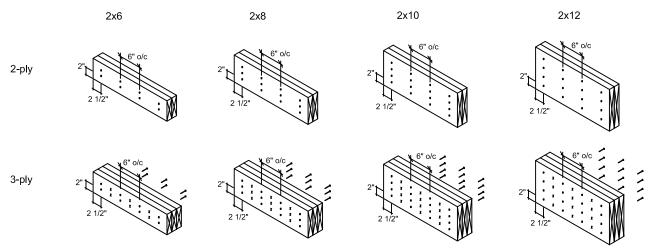
COMPONENT

- 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.

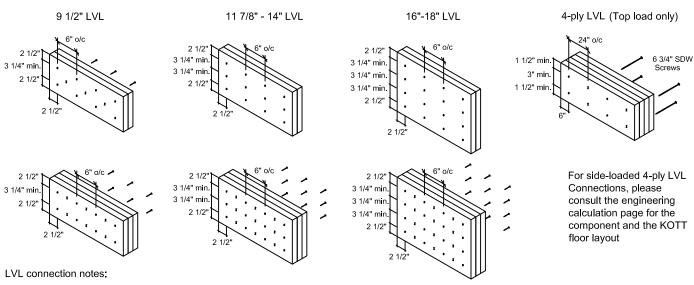
Conventional Connections



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.

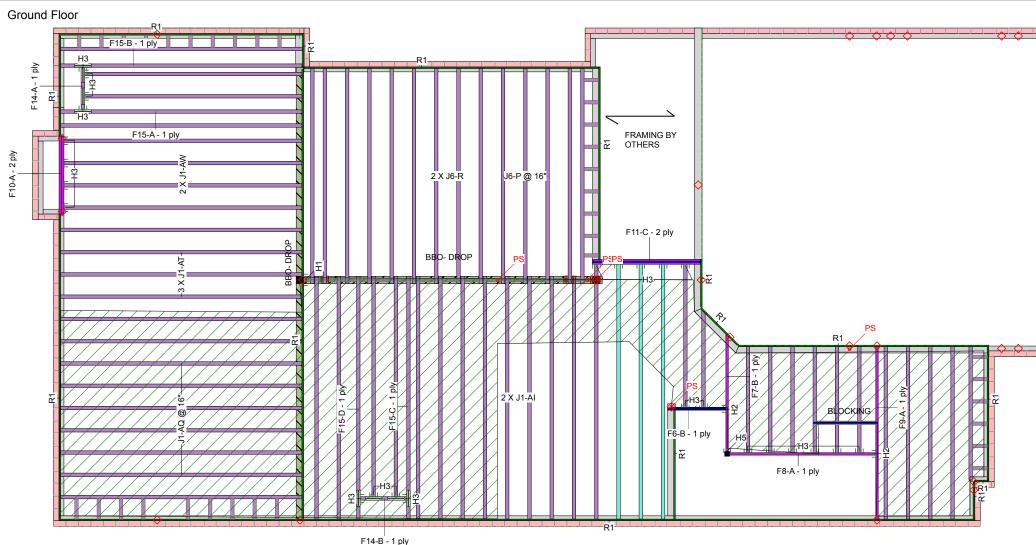
For multi-ply connections of I-joists, refer to Manufacturer's Installation Guide



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

15

Nailed & Glued



Architectural Drawing Info

IARDIN DESIGN GROUP 64 JARDIN DR, SUITE 3A VAUGHAN,ON L4K 3P3 Project # 17-55 Model: LOT-9 (AMELIA 3 EL-2) Date: AUG 30, 2018

JOISTS SPACING 16"O/C UNLESS NOTED OTHERWISE

- 1. OBC 2012 O.Reg 332/12 as amended
- 2. Nascor CCMC 13535-R
- 3. LVL CCMC -12904-R
- 4. CAN/CSA-O86-09
- 5. CCMC -12787-R APA PR-L310(C)

This certification is to confirm that:

- . 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.



Ground Floor LVL/LSL Label Description Width Depth Qty Plies Pcs Length F9 1.75 11.875 2.0E-3000Fb LVL 1.75 11.875 10-0-0 F8 Forex 2.0E-3000Fb LVL LOT 9 (AMELIA 3 EL-2) F11 Forex 1.75 11.875 2 8-0-0 Design Method 2.0E-3000Fb LVL LSD F7 1.75 11.875 8-0-0 Forex Description 2.0E-3000Fb LVL GREEN YORK HOMES F10 Forex 1.75 11.875 2 2 6-0-0 2.0E-3000Fb LVL GRANELLI HOMES PROJECT BRAMPTON,ON F6 Forex 1.75 11.875 2.0E-3000Fb LVL Created Joist May 29, 2018 Label Description Width Depth Qty Plies Pcs Length Builder F15 LPI 20Plus 2.5 11.875 4 16-0-0 2.5 11.875 F14 LPI 20Plus 2 4-0-0 Sales Rep J1 LPI 20Plus 2.5 11.875 30 16-0-0 RM 2.5 11.875 J6 LPI 20Plus 18 14-0-0 Designer J5 LPI 20Plus 2.5 11.875 12-0-0 SB J4 LPI 20Plus 2 5 11 875 10-0-0 Shipping J10 LPI 20Plus 2.5 11.875 8-0-0 1 6-0-0 Project J2 LPI 20Plus 2.5 11.875 J7 NJ60H 2.5 11.875 3 16-0-0 Builder's Project Rim Board **Kott Lumber Company** Pcs Length Label Description Width Depth Qty Plies 14 Anderson Blvd Norbord Rimboard 1.125 11.875 16 Stouffville, Ontario Plus 1.125 X 11.875 Canada Hanger I 4A 7X4 Beam/Girder 905-642-4400 Supported Member **Ground Floor** Pcs Description Skew Slope fasteners Label fasteners LSD Design Method Unknown Building Code NBCC 2010 / OBC 2012 H2 2 HUS1.81/10 30 10dx1 1/2 10 16d Floor H3 25 LF2511 12 10d 1 #8x1 1/4WS Loads 1 HUS1.81/10 H5 Live Blocking Dead Width Depth Qty Plies Pcs Length Label Description Deflection Joist BLK1 LPI 20 Plus 2.5 11.875 LinFt Varies 46-0-0 480 LL Span L/ NOTES 360 TL Span L/ LL Cant 2L/ 480 Framer to verify dimensions on the architectural drawings. . Double joist only require filler/backer ply when supporting another TL Cant 2L/ 360 member using a face-mounted hanger. Deflection Girder Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls. LL Span L/ 360 Install single-ply flush window header along inside face of rimboard/rimjoist Refer to Nascor specifier guide for installation details. 240 TL Span L/ Squash blocks recommended to be installed at end bearing on all first level LL Cant 2L/ 480 joists which support loading from above exceeding two levels floor or roof. TL Cant 2L/ 360 Load transfer blocks to be installed under all point loads. Decking 8. It shall be the framer's responsibility that floor joists and beams are fastened as per the hanger manufacturer's standards. Deck OSB Thickness 3/4"

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. 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 of 5 PSF.

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

Legend Point Load Support Load from Above 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)



Fastener

Vibration

Version 18.80.219 Powered by iStruct™

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



Client: Project: Address:

12/18/2018 Date: Designer: S B

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

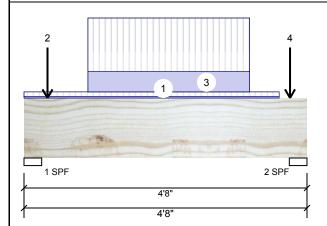
Forex 2.0E-3000Fb LVL

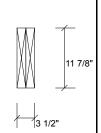
1.750" X 11.875"

2-Ply - PASSED Level: Ground Floor

Brg

2





Wind

0

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	Member Inform	nation		
ĺ	Туре:	Girder	Application:	Floor (Residential)
	Plies:	2	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

314

308

Live

776

759

l									
	Bearings and Factored Reactions								
I	Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.		
ı	1 - SPF	3.500"	21%	393 / 1165	1557	L	1.25D+1.5L		
ł	2 - SPF	3.500"	20%	385 / 1139	1524	L	1.25D+1.5L		

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1247 ft-lb	2'3 11/16"	34261 ft-lb	0.036 (4%)	1.25D+1.5L	L
Unbraced	1247 ft-lb	2'3 11/16"	34261 ft-lb	0.036 (4%)	1.25D+1.5L	L
Shear	1546 lb	1'2 5/8"	11596 lb	0.133 (13%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/33117)	2'3 13/16"	0.140 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.004 (L/13619)	2'3 13/16"	0.140 (L/360)	0.030 (3%)	L	L
TL Defl inch	0.005 (L/9650)	2'3 13/16"	0.210 (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.

15 PSF

- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on full section width.



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January 02, 2019

Comments

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow
1	Tie-In	0-0-0 to 4-2-8	(Span)1-2-0	Тор	15 PSF	40 PSF	0 PSF
2	Point	0-4-10		Near Face	139 lb	371 lb	0 lb
3	Part. Uniform	1-0-10 to 3-8-10		Near Face	106 PLF	281 PLF	0 PLF
4	Point	4-4-10	Near Face		119 lb	317 lb	0 lb
	Self Weight	READ ALL NOTES ON	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

0 lb J1 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
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
- 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

APA: PR-L318

Manufacturer Info

Wind

0 PSF

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





Client: Project: Address:

12/18/2018 Date: Designer: SB

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

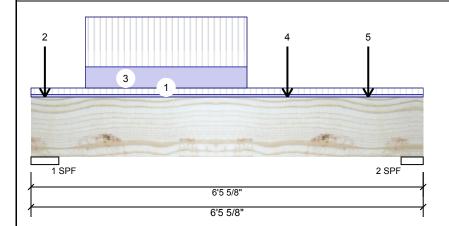
2-Ply - PASSED

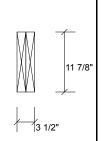
Brg

1

2

Level: Ground Floor





Wind

0

0

Member	Information
Type:	Girder

Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal General Load 40 PSF Floor Live:

15 PSF

Floor (Residential) Application: Design Method: **Building Code:**

Not Checked Deck: Vibration: Not Checked

NBCC 2010 / OBC 2012 Load Sharing: No

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

383

385

Bearings and Factored Reactions

Live

837

823

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

Analysis Results

Dead:

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

- 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.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 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.



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January 02, 2019

7 Lateral sle	nderness ratio based						
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		

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

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
- 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

Wind

0 PLF

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

Comments



Client: Project: Address:

Date: 12/18/2018 Designer: S B

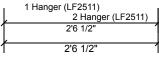
Job Name: LOT 9 (AMELIA 3 EL-2)

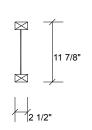
Level: Ground Floor

Project #:

11.875" - PASSED LPI 20Plus







Member Inform	nation		
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		

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	353 ft-lb	9 3/4"	6250 ft-lb	0.056 (6%)	1.25D+1.5L	L
Shear	641 lb	2'5 1/4"	2345 lb	0.273 (27%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/20184)	9 3/4"	0.078 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.004 (L/7547)	9 3/4"	0.078 (L/360)	0.050 (5%)	L	L
TL Defl inch	0.005 (L/5493)	9 3/4"	0.117 (L/240)	0.040 (4%)	D+L	L
֡	Moment Shear Perm Defl in. LL Defl inch	Moment 353 ft-lb Shear 641 lb Perm Defl in. 0.001	Moment 353 ft-lb 9 3/4" Shear 641 lb 2'5 1/4" Perm Defl in. 0.001 (L/20184) 9 3/4" LL Defl inch 0.004 (L/7547) 9 3/4"	Moment 353 ft-lb 9 3/4" 6250 ft-lb Shear 641 lb 2'5 1/4" 2345 lb Perm Defl in. 0.001 9 3/4" 0.078 (L/360) LL Defl inch 0.004 (L/7547) 9 3/4" 0.078 (L/360)	Woment 353 ft-lb 9 3/4" 6250 ft-lb 0.056 (6%) Shear 641 lb 2'5 1/4" 2345 lb 0.273 (27%) Perm Defl in. 0.001 (L/20184) 9 3/4" 0.078 (L/360) 0.020 (2%) LL Defl inch 0.004 (L/7547) 9 3/4" 0.078 (L/360) 0.050 (5%)	Moment 353 ft-lb 9 3/4" 6250 ft-lb 0.056 (6%) 1.25D+1.5L Shear 641 lb 2'5 1/4" 2345 lb 0.273 (27%) 1.25D+1.5L Perm Defl in. 0.001 (L/20184) 9 3/4" 0.078 (L/360) 0.020 (2%) D LL Defl inch 0.004 (L/7547) 9 3/4" 0.078 (L/360) 0.050 (5%) L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.001", Long Term = 0.002"
- 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

U	Infactored	Reactions	UNPAI	TERNED	ib (Uplift)	

Brg	Live	Dead	Snow	Wind
1	266	99	0	0
2	328	123	0	0

Bearings and Factored Reactions

Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.	
1 -	2.000"	33%	124 / 399	523	L	1.25D+1.5L	
Hanger							
2 -	2.000"	41%	154 / 493	646	L	1.25D+1.5L	
Hanger							



January 02, 2019

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-6-8	(Span)1-4-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-9-12		Near Face	108 lb	289 lb	0 lb	0 lb	J6
3	Point	2-1-12		Near Face	88 lb	235 lb	0 lb	0 lb	J6

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.

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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

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







Client: Project: Address:

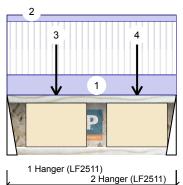
Date: 12/18/2018 Designer: S B

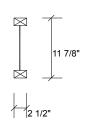
Job Name: LOT 9 (AMELIA 3 EL-2)

Level: Ground Floor

Project #:

11.875" - PASSED LPI 20Plus





ll	2 Hanger (LF2511)	
I 1	2'9 1/2"	•
	2'9 1/2"	7

	Member Inform	nation		
	Туре:	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		
ı				

F	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					

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

U	Infactored	Reactions	UNPAI	TERNED	ib (Uplift)	

Brg	Live	Dead	Snow	Wind
1	304	148	0	0
2	328	161	0	0

Bearings and Factored Reactions

Bearing	Length	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	40%	185 / 455	640	L	1.25D+1.5L
2 - Hanger	2.000"	44%	202 / 492	694	L	1.25D+1.5L



January 02, 2019

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-9-8	(Span)1-3-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 2-9-8		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
3	Point	0-9-12		Far Face	141 lb	291 lb	0 lb	0 lb	
4	Point	2-1-12		Far Face	133 lb	269 lb	0 lb	Pass _t T	hru Framing Squash Block is at all point loads over bearings
								require	at all pollit loads over 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.

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.

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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

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









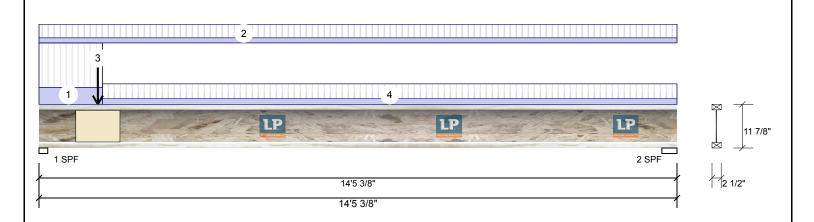
Client: Project: Address: Date: 12/18/2018 Designer: S B

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

11.875" - PASSED LPI 20Plus

Level: Ground Floor



Member Info	rmation			Unfactored Reactions UNPATTERNED Ib (Uplift)					
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind	
Plies:	1	Design Method:	LSD	1	544	203	0	0	
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	280	105	0	0	
Deflection LL:	360	Load Sharing:	No						
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"	65% 254 / 816	1070 L	1.25D+1.5L	
				2-SPF 4	.125"	30% 131 / 420	552 L	1.25D+1.5L	

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2057 ft-lb	6'5 1/4"	6250 ft-lb	0.329 (33%)	1.25D+1.5L	L
Shear	1051 lb	1 5/8"	2345 lb	0.448 (45%)	1.25D+1.5L	L
Perm Defl in.	0.052 (L/3252)	6'10 7/8"	0.468 (L/360)	0.110 (11%)	D	Uniform
LL Defl inch	0.138 (L/1218)	6'10 7/8"	0.468 (L/360)	0.300 (30%)	L	L
TL Defl inch	0.190 (L/886)	6'10 7/8"	0.702 (L/240)	0.270 (27%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.052", Long Term = 0.078"
- 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 7'3" o.c.

6 Bottom flange braced at bearings.



January 02, 2019

П	D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	I	Tie-In	0-0-0 to 1-5-4	(Span)2-9-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	2	Tie-In	0-0-0 to 14-5-6	(Span)0-10-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	3	Point	1-4-0		Far Face	99 lb	266 lb	0 lb	0 lb	F14
4	1	Tie-In	1-5-4 to 14-5-6	(Span)0-11-0	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.

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.

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Canada 905-642-4400

Kott Lumber Company 14 Anderson Blvd, Ontario







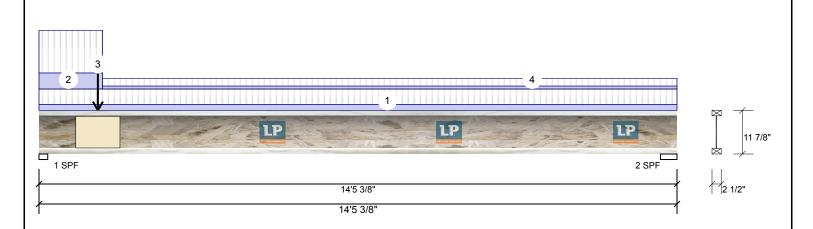
Client: Project: Address: Date: 12/18/2018
Designer: S B

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

F15-B LPI 20Plus 11.875" - PASSED

Level: Ground Floor



Member Information Unfactored Reactions UNPATTERNED Ib (Uplift) Wind Type: Application: Floor (Residential) Brg Live Dead Plies: Design Method: 576 216 0 O 1 Moisture Condition: Dry **Building Code:** NBCC 2010 / OBC 2012 2 250 94 0 0 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Not Checked Deck: Importance: Normal Vibration: Not Checked General Load **Bearings and Factored Reactions** 40 PSF Floor Live: 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.375" 270 / 864 69% 1134 L 1.25D+1.5L 493 2 - SPF 4.500" 27% 117 / 375 1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1902 ft-lb	6'1 5/16"	6250 ft-lb	0.304 (30%)	1.25D+1.5L	L
Shear	1114 lb	1 5/8"	2345 lb	0.475 (48%)	1.25D+1.5L	L
Perm Defl in.	0.048 (L/3510)	6'9 5/8"	0.467 (L/360)	0.100 (10%)	D	Uniform
LL Defl inch	0.128 (L/1316)	6'9 5/8"	0.467 (L/360)	0.270 (27%)	L	L
TL Defl inch	0.176 (L/957)	6'9 5/8"	0.700 (L/240)	0.250 (25%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.048", Long Term = 0.072"
- 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 7'6" o.c.

6 Bottom flange braced at bearings.



January 02, 2015

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 14-5-6	(Span)1-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-5-4	(Span)2-9-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-4-0		Near Face	123 lb	328 lb	0 lb	0 lb	F14
4	Tie-In	1-5-4 to 14-5-6	(Span)0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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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

Notes

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CCMC: 12412-R APA: PR-L238C

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







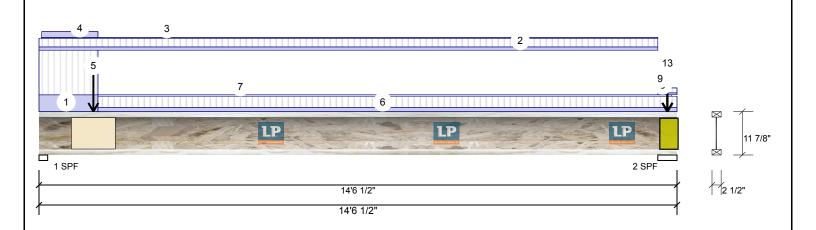
Client: Project: Address: Date: 12/18/2018 Designer: S B

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

11.875" - PASSED LPI 20Plus

Level: Ground Floor



Member Info	ies: 1 Design Method: LSD Building Code: NBCC 2010 / OB0 Effection LL: 360 Effection TL: 240 Effection TL: 240 Effection TL: Normal Eff				Unfactored Reactions UNPATTERNED 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	522	267	0	0		
Deflection LL:	360	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal	Vibration:	Not Checked							
General Load										
Floor Live:	40 PSF			Bearings	and Fact	ored Reactions				
Dead:	15 PSF			Bearing L	Length	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"	61% 333 / 783	1117 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.
- 7 Bottom flange braced at bearings



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

PROFESSIONAL

I.MATIJEVIC 100528832

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
Continued on pa	age 2						

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Manufacturer Info

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requirements

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







Client: Project: Address: Date: 12/18/2018
Designer: S B

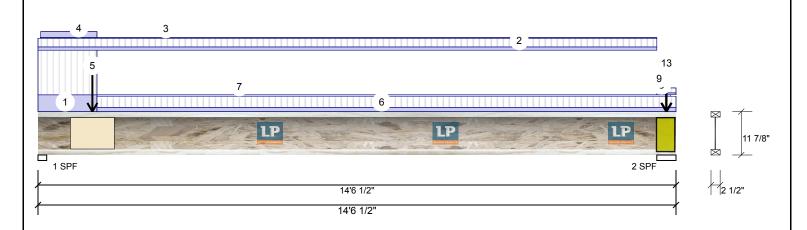
gner: SB

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

F15-C LPI 20Plus 11.875" - PASSED

Level: Ground Floor



Continued from	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	61 lb	155 lb	0 lb	0 lb	J1
	Bearing Length	0-1-8							
11	Point	14-3-14		Тор	4 lb	10 lb	0 lb	0 lb	J6
	Bearing Length	0-1-8							
12	Point	14-3-14		Тор	50 lb	134 lb	0 lb	0 lb	J6
	Bearing Length	0-1-8							
13	Point	14-3-14		Тор	43 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-1-8							



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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

Notes

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www.lpcorp.com CCMC: 12412-R APA: PR-L238C Kott Lumber Company 14 Anderson Blvd, Ontario Canada L4A 7X4 905-642-4400







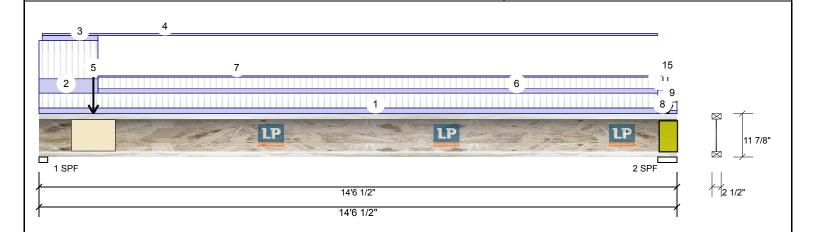
Client: Project: Address: Date: 12/18/2018
Designer: S B

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

F15-D LPI 20Plus 11.875" - PASSED

Level: Ground Floor



Member Inforn	nation			Unfactor	ed Reacti	ons UNPATTERNI	D lb (Uplift)	
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	698	354	0	0
Deflection LL:	360	Load Sharing:	No					
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load								
Floor Live:	40 PSF			Bearings	and Facto	ored Reactions		
Dead:	15 PSF			Bearing I	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 2	2.375"	82% 389 / 948	1336 L	1.25D+1.5L
				2 - SPF 5	5.250"	81% 442 / 1048	1490 L	1.25D+1.5L

Analysis Results

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 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 = 0.079", Long Term = 0.119"
- 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 6'6" o.c.

7 Bottom flange braced at bearings.



January 02, 2019

Comments

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind
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	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	0 PSF Pass-T
3	Part. Uniform	0-0-14 to 1-4-2		Тор	8 PLF	0 PLF	0 PLF	require
4	Part. Uniform	0-0-15 to 14-1-4		Тор	3 PLF	0 PLF	0 PLF	Refer to

୦ PSF Pass-Thru Framing Squash Block is ଜ୍ୟୁired at all point loads over bearings

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

Notes

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.

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This design is valid until 10/31/2020

Manufacturer Info

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CCMC: 12412-R APA: PR-L238C

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







Client: Project: Address: Date: 12/18/2018

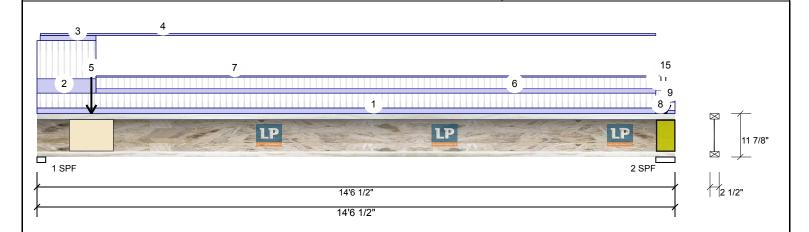
Designer: S B

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

11.875" - PASSED F15-D LPI 20Plus

Level: Ground Floor



Continued	d from page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Point	1-2-14		Near Face	148 lb	304 lb	0 lb	0 lb	F14
6	Tie-In	1-4-2 to 14-1-4	(Span)0-11-0 to 0-11-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
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	
12	Point	14-3-14		Тор	69 lb	185 lb	0 lb	0 lb	J1
	Bearing Length	0-1-8							
13	Point	14-3-14		Тор	41 lb	109 lb	0 lb	0 lb	J6
	Bearing Length	0-1-8							
14	Point	14-3-14		Тор	29 lb	77 lb	0 lb	0 lb	J6
	Bearing Length	0-1-8							
15	Point	14-3-14		Тор	53 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-1-8							

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

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.



January 02, 2019

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







Client: Project: Address:

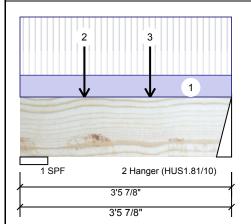
12/18/2018 Date: Designer: SB

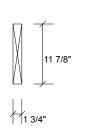
Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL

Level: Ground Floor





Wind

O

0

0

0

Member Information Application: Floor (Residential) Type: Plies: Design Method: 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 15 PSF Dead:

Unfactored Reactions UNPATTERNED Ib (Uplift) Brg Live Dead

170

122

360

259

1

2

	Bearing:	s and Fa	actored					
Bearing Length		Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.		
ı	1 - SPF	5.500"	13%	213 / 540	753	L	1.25D+1.5L	
1	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

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.



January 02, 2019

ı	טו	Load Type	Location	Trib vviatn	Side	Dead	Live	Snow	
I	1	Part. Uniform	0-0-0 to 3-5-14		Тор	30 PLF	80 PLF	0 PLF	
I	2	Point	1-0-12		Far Face	102 lb	206 lb	0 lb	
I	3	Point	2-1-12		Far Face	69 lb	134 lb	0 lb	
I		Self Weight				5 PLF			P

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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

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
- 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

Wind

0 PLF 0 lb 0 lb Comments

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









Client: Project: Address:

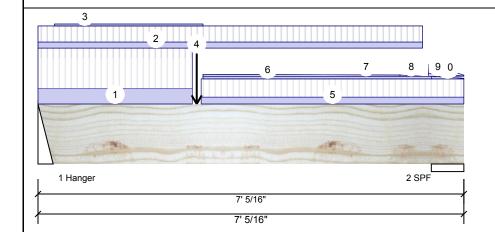
12/18/2018 Designer: SB

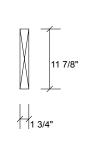
Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL

Level: Ground Floor





Member Infor	mation			Unfactor	ed React	ions UNPATTERN	ED lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	410	199	0	0
Moisture Conditio	n: Dry	Building Code:	NBCC 2010 / OBC 2012	2	295	156	0	0
Deflection LL:	360	Load Sharing:	No					
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load				-				
Floor Live:	40 PSF			Bearings	and Fact	ored Reactions		
Dead:	15 PSF			Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 -	3.000"	22% 248 / 615	864 L	1.25D+1.5L
				Hanger				
Analysis Resul	ts			2 - SPF	6.438"	9% 195 / 442	637 L	1.25D+1.5L

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
TL Defl inch	0.019 (L/3933)	3' 5/16"	0.318 (L/240)	0.060 (6%)	D+L	L



January 02, 2019

F6

υ	e	sig	П	1	IU	tes	

- 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.

	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind (
	1	Tie-In	0-0-0 to 2-6-9	(Span)3-1-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF
	2	Tie-In	0-0-0 to 6-4-2	(Span)1-3-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF
	3	Part. Uniform	0-3-4 to 2-8-10		Тор	3 PLF	0 PLF	0 PLF	0 PLF
	4	Point	2-7-7		Far Face	122 lb	259 lb	0 lb	0 lb F6
	5	Tie-In	2-8-5 to 7-0-5	(Span)1-5-0	Тор	15 PSF	40 PSF	0 PSF	PaseSFhru F
	6	Part. Uniform	2-8-10 to 6-5-14		Тор	4 PLF	0 PLF	0 PLF	required at
	7	Tapered Start	2-8-10		Тор	3 PLF	0 PLF	0 PLF	Refer to Mu
ŀ	Continued on page	2							Detail for pl

ru Framing Squash Block is at all point loads over bearings

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 ponding

Manufacturer Info

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







Client: Project: Address:

12/18/2018

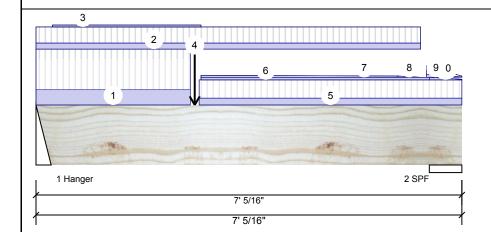
Designer:

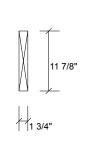
Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL

Level: Ground Floor





Continued	from page 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

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 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



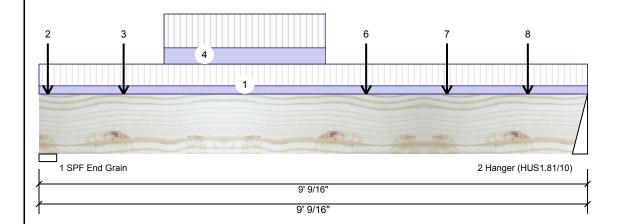
Client: Project: Address: Date: 12/18/2018 Designer: S B

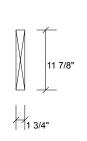
Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL

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) Brg Live Dead

2	1290	544	0	0

535

Analysis Results

Dead:

15 PSF

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

1200

1

l	Bearing	Length	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Comb.
ļ	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

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.
- 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.

3 BOLLOTT	braceu 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- to 3-11-7	-7 Top	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
Continued or	n page 2						



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	January 02, 2019
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	0 PSF	
2	Point	0-1-12		Тор	110 lb	248 lb	0 lb	0 lb	C4
3	Point	1-4-12		Far Face	77 lb	158 lb	0 lb	0 lb	J10
4	Part. Uniform	2-0-12 to 4-8-12		Far Face	59 PLF	123 PLF	0 PLF		ru Framing Squash Block is at all point loads over bearings
6	Point	5-4-12		Far Face	126 lb	296 lb	0 lb	0 lb	J10
7 Continued on page	Point e 2	6-8-12		Far Face	156 lb	393 lb	0 lb		Muitiple Member Connection r ply to ply nailing or bolting nents
								-	

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 ponding

APA: PR-L318

Manufacturer Info

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







Client: Project:

Address:

Date: Designer: SB

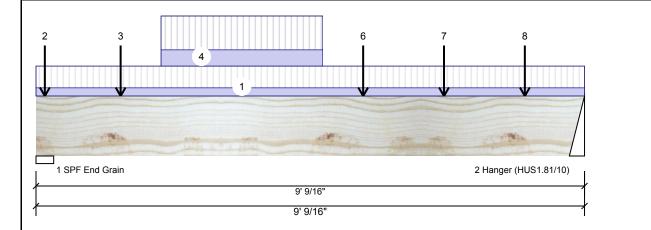
12/18/2018

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL

Level: Ground Floor



.Continued from page 1

ID Location Trib Width Side Live Wind Comments Load Type Dead Snow 8 Point 8-0-12 Far Face 141 lb 352 lb 0 lb 0 lb J10 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

Notes

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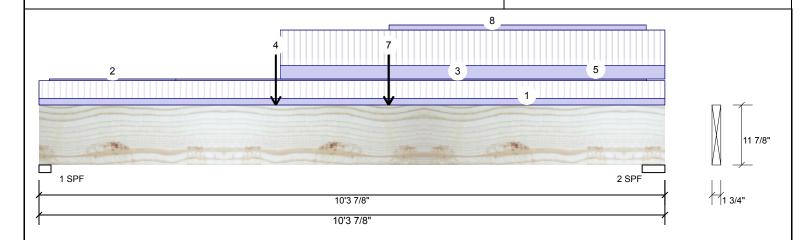
Client: Project: Address: Date: 12/18/2018 Designer: SB

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL

Level: Ground Floor



Member Info	rmation			Unfactore	d Reaction	ons UNPATTERNI	ED lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	949	425	0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2010 / OBC 2012	2	722	334	0	0
Deflection LL:	360	Load Sharing:	No					
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load								
Floor Live:	40 PSF			Bearings a	nd Facto	red Reactions		
Dead:	15 PSF			Bearing Le	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 2.	.375"	76% 531 / 1424	1955 L	1.25D+1.5L
				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

- 1 Girders are designed to be supported on the bottom edge only. 2 Top must be laterally braced at a maximum of 6'3" o.c.
- 3 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.

3 BULLOTT DIACEL	a at bearings.					, <u>_</u>	
ID	Load Type	Location	Trib Width	Side	Dead	Live	
1	Tie-In	0-0-0 to 10-3-14	(Span)0-6-5	Тор	15 PSF	40 PSF	
2	Part. Uniform	0-2-1 to 2-3-1		Тор	1 PLF	0 PLF	
3	Part. Uniform	2-3-1 to 10-0-4		Тор	1 PLF	0 PLF	
4	Point	3-10-14		Far Face	544 lb	1290 lb	
5	Tie-In	3-11-12 to 10-3-14	(Span)1-0-11	I Тор	15 PSF	40 PSF	
6	Point	5-9-3		Тор	48 lb	127 lb	
7	Point	5-9-3		Тор	4 lb	12 lb	
8	Part. Uniform	5-9-5 to 10-0-3		Тор	3 PLF	0 PLF	
	Self Weight				5 PLF		

0 lb F8 $^{0~{\mbox{\footnotesize PSF}}}$ Pass-THR $^{\mbox{\footnotesize BF}}$ Framing Squash Block is 0 lbrequired0at all point loads over bearings

LICENSES

^{0 lb}Refer to Multiple Member Connection 0 PLFDetail for ply nailing or bolting requirements

NOtes
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.

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 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
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 Provide lateral support at bearing points to avoid
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6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

APA: PR-L318

Snow

0 PSF

0 PLF

0 PLF

Wind

0 PSF

0 PLF

0 PLF

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

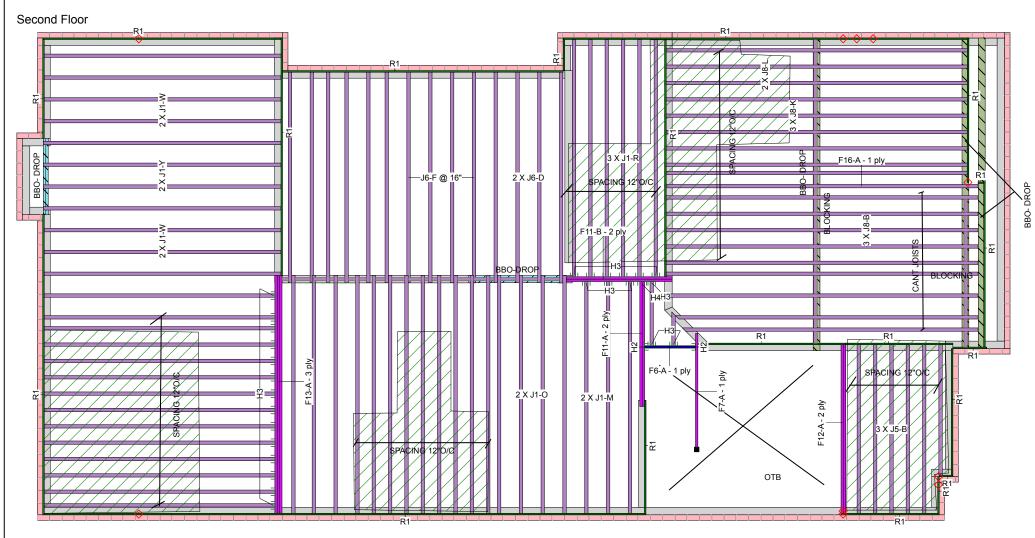
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January 02, 2019





Architectural Drawing Info

JARDIN DESIGN GROUP 64 JARDIN DR, SUITE 3A VAUGHAN,ON L4K 3P3 Project # 17-55 Model: LOT 9 (AMELIA 3 EL-2) 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-O86-09
- 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.



F12 F11 F7 F6 Joist Label J8 J1 J6 J5 J10 J9 F16 Rim Bo Label R1 Blockir Label BLK1 Hange Label H2 НЗ H4 NOTES Fram 2. Double

Second

LVL/LSL Label F13

	LPI 20F	Plus	2	2.5	11.8	375				1	20-0-0	
0	ard											
Ī	Descri	ption	Wid	lth	De	pth	(Qty	Plies	Pcs	Length	
	Norbor Plus 1. 11.875	d Rimboard 125 X	1.1	25	11.8	375				18	12	
n	g											_
	Descri	ption	Wid	lth	De	pth	(Qty	Plies	Pcs	Length	
	LPI 20	Plus	2	2.5	11.8	375	L	inFt		Varies	34-0-0	
er Beam/Girder Supporte Membe												
I	Pcs	Description	n	SI	kew	Slo	ре	fa	steners	fas	teners	
I	2	HUS1.81/10	0						30 16d	10) 16d	
	26	LF2511							12 10d	1 #8x	1 #8x1 1/4WS	
l	1	HGUS410							46 16d	16	3 16d	
i:	er to ve	rify dimensio	er to verify dimensions on the architectural drawings.									

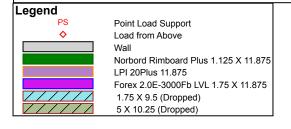
- Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls.
 Install single-ply flush window header along inside face of rimboard/rimjoist.
- Refer to Nascor specifier guide for installation details.
- 6. Squash blocks recommended to be installed at end bearing on all first level joists which support loading from above exceeding two levels floor or roof.
- 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.

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.



										Page 20 of 30 IM0119-001
Floor										
L										
Descri	ption	Widt	h D	epth	Qty	Plies	F	Pcs	Length	NASCOR
Forex		1.7	'5 1 ⁻	1.875	1	3		3	16-0-0	
	000Fb LVL		- 4						10.00	Layout Name
Forex 2.0E-30	000Fb LVL	1.7	5 1	1.875	1	2		2	12-0-0	LOT 9 (AMELIA 3 EL-2)
Forex		1.7	'5 1 ⁻	1.875	2	2		4	8-0-0	Design Method
	000Fb LVL									LSD
Forex		1.7	'5 1 ⁻	1.875				1	8-0-0	
	000Fb LVL									Description
Forex	000Fb LVL	1.7	'5 1'	1.875				1	4-0-0	GREEN YORK HOMES GRANELLI HOMES PROJECT
2.00-30	DOULD EAF									BRAMPTON,ON
Descri	ption	Widt	h D	epth	Qty	Plies	-	Pcs	Length	Created
LPI 20F	_	2.		1.875		1		18	20-0-0	May 29, 2018
LPI 20F		2.	_	1.875				50	16-0-0	Builder
LPI 20F	Plus	2.	.5 1°	1.875				14	14-0-0	
LPI 20Plus		2.	.5 1°	1.875				5	12-0-0	Sales Rep
LPI 20F		2.	.5 1°	1.875				1	8-0-0	RM
LPI 20Plus		2.	_	1.875				2	4-0-0	Designer
LPI 20F	Plus	2.	.5 1°	1.875				1	20-0-0	SB
ard		140.11							ı	Shipping
Descri		Widt	_	epth	Qty	Plies		Pcs	Length	Project
Plus 1.	d Rimboard	1.12	5 1	1.875				18	12	Builder's Project
11.875	.2071									Kott Lumber Company
g										
Descri	ption	Widt	h D	epth	Qty	Plies	F	Pcs	Length	14 Anderson Blvd
LPI 20	Plus	2.	.5 1°	1.875	LinF	t	V	aries/	34-0-0	Stouffville, Ontario
•										Canada
					Е	Beam/Girde	er		ported	L4A 7X4
									ember	905-642-4400
Pcs	Descriptio		Skev	v Slo	ре	fasteners	_		teners	Second Floor
2 HUS1.81/10		0				30 16d	_		0 16d	Design Method LSD
26 1	LF2511 HGUS410					12 10d 46 16d	+		1 1/4WS 3 16d	Building Code NBCC 2010 / OBC 2012
	11000410					4 0 100		- 10	100	Floor
										Loads
	rify dimensio									Live 40
	only require				n supp	orting anoth	ner			Dead 15
oer using	g a face-mou	unted h	ıanger							5

ı	Loads	
l	Live	40
l	Dead	15
l	Deflection Joist	
l	LL Span L/	480
l	TL Span L/	360
l	LL Cant 2L/	480
l	TL Cant 2L/	360
l	Deflection Girder	
l	LL Span L/	360
l	TL Span L/	240
l	LL Cant 2L/	480
l	TL Cant 2L/	360
l	Decking	
l	Deck	OSB
l	Thickness	5/8"
l	Fastener	Nailed & Glued
l	Vibration	
l	Ceiling:	Gypsum 1/2"





Client: Project: Address:

Date: Designer:

12/18/2018 SB

Job Name: LOT 9 (AMELIA 3 EL-2)

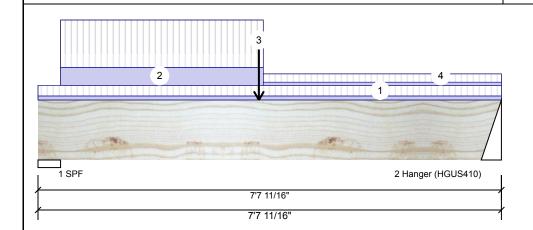
Project #:

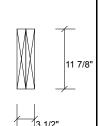
Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED

Level: Second Floor





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

15 PSF

Floor (Residential) Application: Design Method: **Building Code:** NBCC 2010 / OBC 2012 Load Sharing: No Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift) Wind Brg Live Dead 489 224 0 O 1 2 372 179 0 0

Bearings and Factored Reactions

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

Analysis Results

Dead:

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

Design Notes

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

7 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.



January 02, 2019

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

O PSF Pass-Thru Framing Squash Block is required at fall point loads over bearings

Comments

Wind

0 PSF

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
- 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:

12/18/2018 Date: Designer: S B

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED

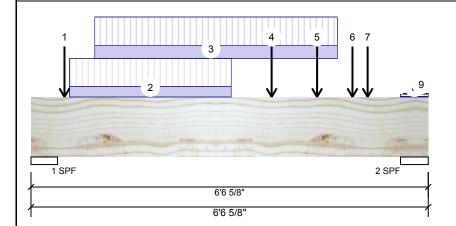
Brg

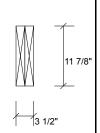
Bearing Length

1 - SPF 5.250"

2 - SPF 5.500"

Level: Second Floor





Wind

0

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Wiellibei	Information
T	0:

Type:	Girder	Application:	Floor (Residential)
Plies:	2	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

720

Snow

0

Total Ld. Case

3361 L

3044

Live

1641

Bear	Bearings and Factored Reactions								
_		33.	·	Č					
12	1474	667	0	0					

900 / 2461

834 / 2211

Cap. React D/L lb

30%

26%

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4871 ft-lb	3'3 5/8"	34261 ft-lb	0.142 (14%)	1.25D+1.5L	L
Unbraced	4871 ft-lb	3'3 5/8"	32706 ft-lb	0.149 (15%)	1.25D+1.5L	L
Shear	3590 lb	5'2"	11596 lb	0.310 (31%)	1.25D+1.5L	L
Perm Defl in.	0.009 (L/7417)	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/2261)	3'3 1/2"	0.289 (L/240)	0.110 (11%)	D+L	L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4871 ft-lb	3'3 5/8"	34261 ft-lb	0.142 (14%)	1.25D+1.5L	L
Unbraced	4871 ft-lb	3'3 5/8"	32706 ft-lb	0.149 (15%)	1.25D+1.5L	L
Shear	3590 lb	5'2"	11596 lb	0.310 (31%)	1.25D+1.5L	L
Perm Defl in.	0.009 (L/7417)	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/2261)	3'3 1/2"	0.289 (L/240)	0.110 (11%)	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

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January 02, 2019

ı	Later							
I	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow
I	1	Point	0-6-10		Far Face	116 lb	256 lb	0 lb
I	2	Part. Uniform	0-7-10 to 3-3-10		Near Face	105 PLF	280 PLF	0 PLF
I	3	Part. Uniform	1-0-10 to 5-0-10		Far Face	127 PLF	286 PLF	0 PLF
I	4	Point	3-11-10		Near Face	111 lb	296 lb	0 lb
I	5	Point	4-8-10		Near Face	179 lb	372 lb	0 lb
I	6	Point	5-3-10		Near Face	25 lb	67 lb	0 lb

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

Comments

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

Continued on page 2...

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

Handling & Installation

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- Damaged Beams must not be used
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 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

Wind

0 PLF

0 lb J1

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



isDesign™

Client:

Project: Address: Date: 12/18/2018 Designer: S B

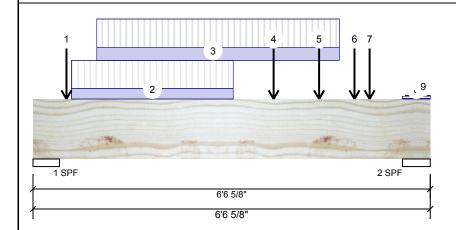
Job Name: LOT 9 (AMELIA 3 EL-2)

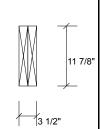
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED Level: Second Floor





Continued	from	page	1
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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
7	Point	5-6-10		Far Face	101 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				



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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

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.

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 LVL not to be treated with fire retardant or corrosive
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 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



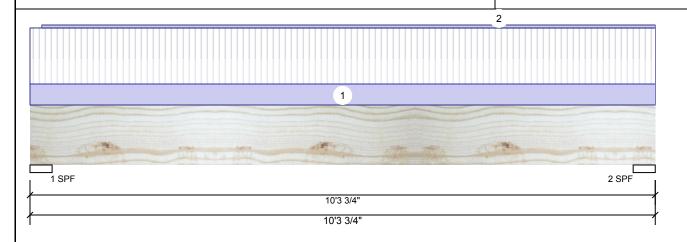
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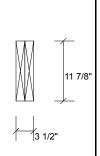
12/18/2018 Date: Designer: S B

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

2-Ply - PASSED Level: Second Floor 1.750" X 11.875" Forex 2.0E-3000Fb LVL





Member Information							
Туре:	Girder						
Plies:	2						
Moisture Condition:	Dry						
Deflection LL:	360						
Deflection TL:	240						
Importance:	Normal						
General Load							

40 PSF

15 PSF

Application: Floor (Residential) Design Method: LSD **Building Code:** NBCC 2010 / OBC 2012 Load Sharing: No Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift) Dead Wind Brg Live 97 91 0 O 1 2 97 91 0 0

Bearings and Factored Reactions Bearing Length Cap. React D/L lb

Total Ld. Case Ld. Comb. 1 - SPF 4.375" 113 / 146 3% 259 L 1.25D+1.5L 113 / 146 2 - SPF 4.375" 3% 259 I 1.25D+1.5L

Analysis Results

Floor Live:

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.



January 02, 2019

	Self Weight				10 PLF			Pass-Thr	u Framing S
2	Part. Uniform	0-2-5 to 10-3-12		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
1	Tie-In	0-0-0 to 10-3-12	(Span)0-11-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments

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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
- 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
- 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

APA: PR-L318

Manufacturer Info

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

Squash Block is







Client: Project: Address: Date: 12/18/2018 Designer: S B

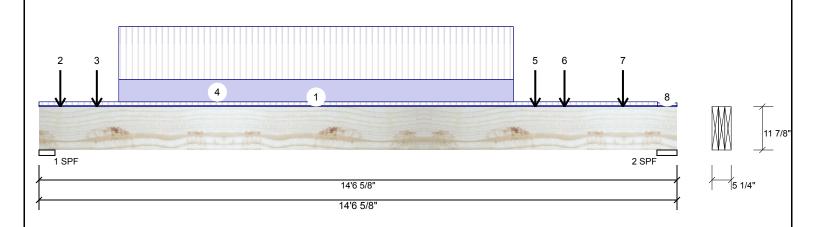
Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

3-Ply - PASSED Level: Second Floor



mation			Unfactored Reactions UNPATTERNED lb (Uplift)						
Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind		
3	Design Method:	LSD	1	2085	972	0	0		
n: Dry	Building Code:	NBCC 2010 / OBC 2012	2	2008	911	0	0		
360	Load Sharing:	Yes							
240	Deck:	Not Checked							
Normal	Vibration:	Not Checked							
40 PSF			Bearings and Factored Reactions						
15 PSF			Bearing Ler	ngth (Cap. React D/L lb	Total Ld. Case	Ld. Comb.		
			1 - SPF 4.3	75"	31% 1215 / 3127	4342 L	1.25D+1.5L		
			2 - SPF 5.5	00"	23% 1139 / 3012	4151 L	1.25D+1.5L		
	Girder 3 n: Dry 360 240 Normal	Girder 3 Design Method: Design Method: Building Code: Load Sharing: Deck: Normal Vibration: 40 PSF 15 PSF	Girder 3 Design Method: LSD n: Dry Building Code: NBCC 2010 / OBC 2012 Load Sharing: Yes 240 Deck: Not Checked Normal Vibration: Not Checked	Application: Floor (Residential) Brg 1	Application: Floor (Residential) Brg Live	Application: Floor (Residential) Brg Live Dead 1 2085 972	Application: Floor (Residential) Brg Live Dead Snow		

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	14769 ft-lb	7'2 13/16"	53447 ft-lb	0.276 (28%)	1.25D+1.5L	L
Unbraced	14769 ft-lb	7'2 13/16"	50470 ft-lb	0.293 (29%)	1.25D+1.5L	L
Shear	4273 lb	1'3 1/2"	17394 lb	0.246 (25%)	1.25D+1.5L	L
Perm Defl in	. 0.083 (L/1993)	7'2 5/8"	0.462 (L/360)	0.180 (18%)	D	Uniform
LL Defl inch	0.181 (L/920)	7'2 7/8"	0.462 (L/360)	0.390 (39%)	L	L
TL Defl inch	0.264 (L/629)	7'2 13/16"	0.693 (L/240)	0.380 (38%)	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.

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January 02, 2019

Comments

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow
1	Tie-In	0-0-0 to 14-1-4	(Span)0-11-0	Тор	15 PSF	40 PSF	0 PSF
2	Point	0-5-13		Far Face	81 lb	190 lb	0 lb
3	Point	1-3-13		Far Face	108 lb	255 lb	0 lb
4	Part. Uniform	1-9-13 to 10-9-13		Far Face	117 PLF	278 PLF	0 PLF
5	Point	11-3-13		Far Face	91 lb	232 lb	0 lb
6	Point	11-11-13		Far Face	104 lb	278 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

Notes

Continued on page 2...

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- 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
- 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

Wind

0 PSF 0 lb 0 lb

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



isDesign™

Client: Project:

Address:

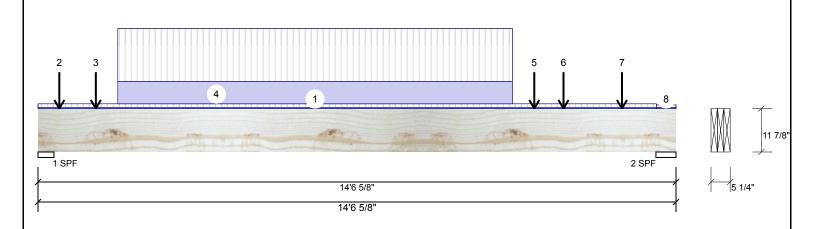
Date: Designer: S B

12/18/2018

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

3-Ply - PASSED Level: Second Floor 1.750" X 11.875" Forex 2.0E-3000Fb LVL



Continued	from	page	1
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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
7	Point	13-3-13		Far Face	139 lb	371 lb	0 lb	0 lb	J1
8	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				



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

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 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







Client: Project: Address: Date: 12/18/2018

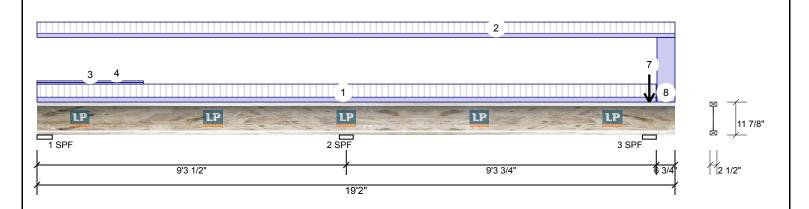
Designer: S B

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

F16-A LPI 20Plus 11.875" - PASSED

Level: Second Floor



Member Inform	nation		
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	UNPATT	FRNFD Ib	(Uplift
Olliactor ca	INCUCUIO II 3	VIII 7 I I	LIXIALD ID	(Opinit

Brg	Live	Dead	Snow	Wind
1	116	55	1	0
2	322	118	0 (-4)	0
3	331	337	201	0

Bearings and Factored Reactions

ı	Bearing	Length	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Comb.
ı	1 - SPF	5.500"	14%	67 / 193	260	L	1.25D+1.5L
1	2 - SPF	5.000"	16%	150 / 502	652	LL_	1.25D+1.5L
1	3 - SPF	5.000"	34%	421 / 617	1038	_LL	1.25D+1.5L +0.5S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-578 ft-lb	9'3 1/2"	6250 ft-lb	0.092 (9%)	1.25D+1.5L	LL_
Pos Moment	433 ft-lb	4'1 11/16"	5500 ft-lb	0.079 (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/21091)	4'5 1/4"	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/5219)	4'7 11/16"	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/5508)	Rt Cant	0.300 (2L/360)	0.008 (1%)	D+L+0.5S	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 = 0.005", Long Term = 0.008"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange braced at bearings.
- 6 Bottom 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.



January 02, 2019

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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This design is valid until

Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com

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:

Designer: S B

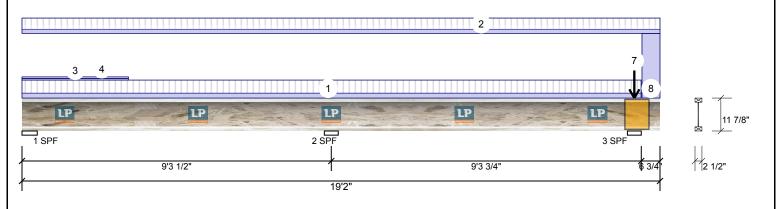
12/18/2018

Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

11.875" - PASSED LPI 20Plus

Level: Second Floor



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 18-7-3	(Span)0-9-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
2	Tie-In	0-0-0 to 19-2-0	(Span)0-8-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
3	Part. Uniform	0-0-0 to 3-2-5		Тор	2 PLF	0 PLF	0 PLF	0 PLF		
4	Part. Uniform	0-0-0 to 3-2-6		Тор	2 PLF	0 PLF	0 PLF	0 PLF		
5	Point	18-4-12		Тор	199 lb	204 lb	197 lb	0 lb	F2 F2	
	Bearing Length	0-1-8								
6	Point	18-4-12		Тор	7 lb	0 lb	0 lb	0 lb	Wall Self Weight	
	Bearing Length	0-1-8								
7	Point	18-4-12		Тор	36 lb	0 lb	0 lb	0 lb	Wall Self Weight	
	Bearing Length	0-1-8								
8	Part. Uniform	18-7-8 to 19-2-0		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	



January 02, 2019

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

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Manufacturer Info

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www.lpcorp.com CCMC: 12412-R APA: PR-L238C

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







Client: Project: Address:

Date: Designer: S B

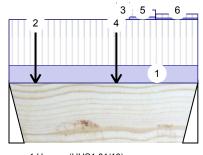
12/18/2018

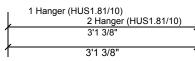
Job Name: LOT 9 (AMELIA 3 EL-2)

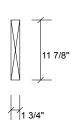
Project #:

1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL

Level: Second Floor







Wind

0

0

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

Application: Floor (Residential) Design Method: LSD **Building Code:** NBCC 2010 / OBC 2012 Load Sharing: No Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED Ib (Uplift) Brg Live Dead 477 187 O 1 2 449 176 0

Location Allowed Capacity Comb.

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

Bearings and Factored Reactions

Bearing L	ength	Cap. Rea	act D/L lb	Total	Ld. Case	Ld. Comb.
1 - 3 Hanger	3.000"	24%	233 / 716	949	L	1.25D+1.5L
2 - 3 Hanger	3.000"	23%	220 / 674	894	L	1.25D+1.5L

Design Notes

Analysis Results

- 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.



January 02, 2019

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

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

⁰Refer to Multiple Member Connection OPStail for ply to ply nailing or bolting requirements

Notes

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
- 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

This design is valid until 10/18/2021

Manufacturer Info

APA: PR-L318

Wind

0 PLF 0 lb Comments

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







Client: Project: Address:

Date: 12/18/2018

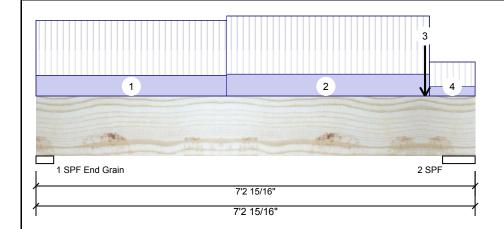
Designer: S B

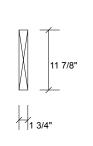
Job Name: LOT 9 (AMELIA 3 EL-2)

Project #:

1.750" X 11.875" - PASSED Forex 2.0E-3000Fb LVL

Level: Second Floor





Member	Information
Typo:	Cirdor

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)

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

Analysis Results

15 PSF

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	<u>L</u>
TL Defl inch	0.013 (L/5841)	3'7 7/8"	0.327 (L/240)	0.040 (4%)	D+L	L

Bearings and Factored Reactions

Snow

0 PSF

0 PSF

0 PSF

0 lb

Wind

0 PSF

0 PSF

0 PSF

0 lb F6

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

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
1	Tie-In	0-0-0 to 3-1-12	(Span)3-1-13	Тор	15 PSF	40 PSF
2	Tie-In	3-1-12 to 6-5-14	(Span)3-4-0	Тор	15 PSF	40 PSF
3	Point	6-5-0		Far Face	176 lb	449 lb
4	Tie-In	6-5-14 to 7-2-15	(Span)1-5-0	Тор	15 PSF	40 PSF
	Self Weight				5 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

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- Damaged Beams must not be used
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 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

APA: PR-L318

Manufacturer Info

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

I.MATIJEVIC 100528832

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January 02, 2019