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

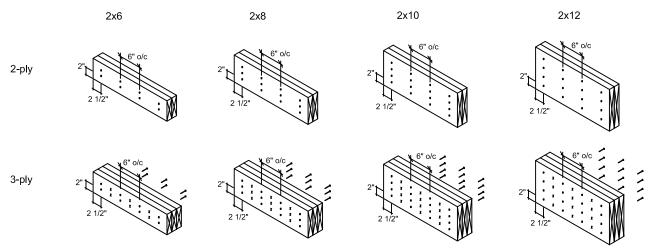
- 1. The building component used in construction must be the same as indicated on the drawings.
- 2. The building component must be installed and assembled as per specification shown on the drawing and in accordance with the manufacturer's assembly and installation.
- 3. Members consisting of multiple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



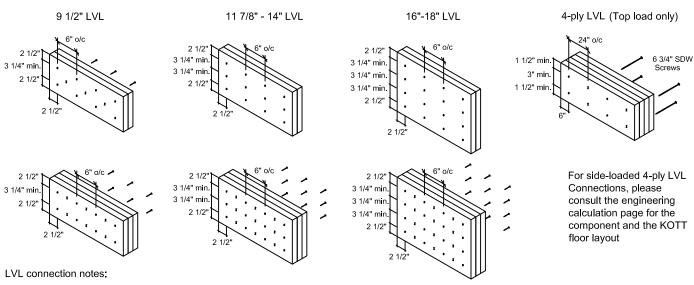
Conventional Connections



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.

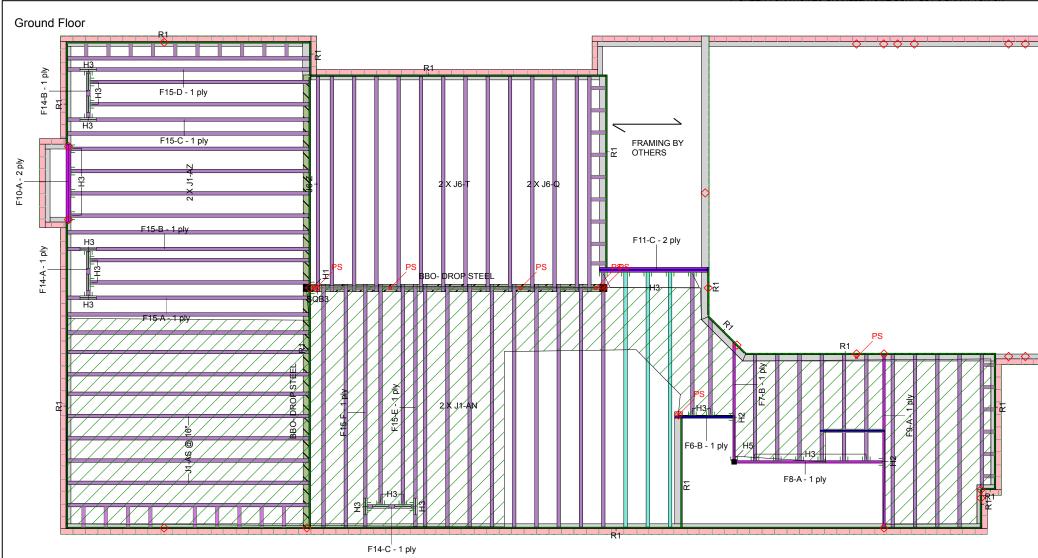
Multiple Member Connections

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



Architectural Drawing Info

JARDIN DESIGN GROUP INC 64 JARDIN DR, SUITE 3A VAUGHAN,ON, L4K 3P3

Project # 17-55 Model: LOT-6 (AMELIA - EL-1) 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)

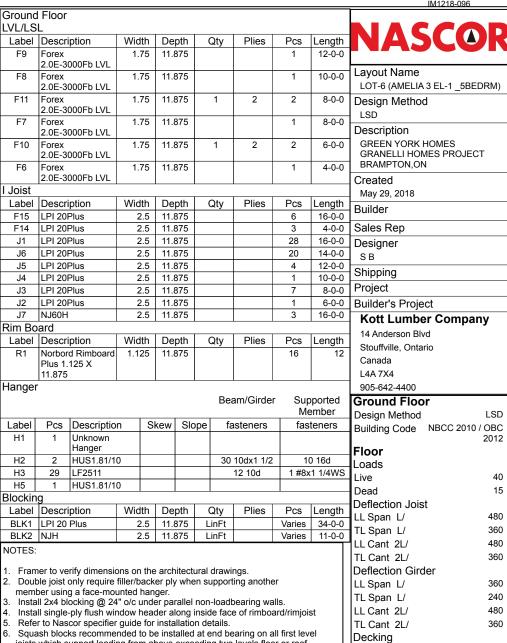
This certification is to confirm that:

- 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.





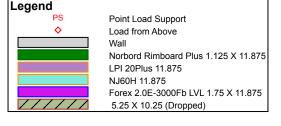
- joists which support loading from above exceeding two levels floor or roof.
- Load transfer blocks to be installed under all point loads. 3. It shall be the framer's responsibility that floor joists and beams
- are fastened as per the hanger manufacturer's standards.

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





Deck

Thickness

Fastener

Vibration

OSB

3/4"

Nailed & Glued



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

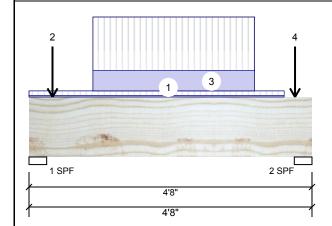
Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

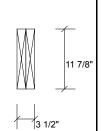
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED Level: Ground Floor





Member Info	Member Information			Unfactore	d Reacti	ons UNPATTERNI	ATTERNED lb (Uplift)		
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind	
Plies:	2	Design Method:	LSD	1	733	298	0	0	
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	757	307	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 Fact	ored Reactions			
Dead:	15 PSF			Bearing L	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.	
				1 - SPF 3	.500"	20% 372 / 1100	1472 L	1.25D+1.5L	
				2-SPF 3	.500"	20% 384 / 1136	1520 L	1.25D+1.5L	

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1240 ft-lb	2'3 3/4"	34261 ft-lb	0.036 (4%)	1.25D+1.5L	L
Unbraced	1240 ft-lb	2'3 3/4"	34261 ft-lb	0.036 (4%)	1.25D+1.5L	L
Shear	1461 lb	1'2 5/8"	11596 lb	0.126 (13%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/33315)	2'3 7/8"	0.140 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.004 (L/13707)	2'3 13/16"	0.140 (L/360)	0.030 (3%)	L	L
TL Defl inch	0.005 (L/9712)	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.
- 4 Top braced at bearings.

5 Bollom brace	ed 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 4-2-8	(Span)1-2-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-4-10		Near Face	122 lb	326 lb	0 lb	0 lb	J1
3	Part. Uniform	1-0-10 to 3-8-10		Near Face	106 PLF	281 PLF	0 PLF	Pass-	Thru Framing Squash Block is
4	Point	4-4-10		Near Face	119 lb	317 lb	0 lb		red at all point loads over bearings

Self Weight 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.

Handling & Installation

- 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. 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

10 PLF

Manufacturer Info APA: PR-L318

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



requirements





Refer to Multiple Member Connection

Detail for ply to ply nailing or bolting

I.MATIJEVIC 100528832

NOVINCE OF ONTARIO

December 18, 2018



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



isDesign™

Client: Project: Address:

12/17/2018 Date: Designer:

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

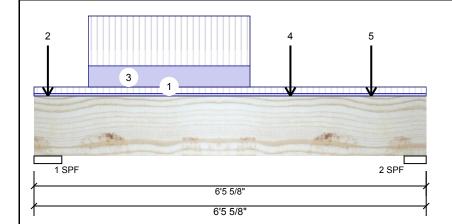
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor



Application: Design Method:

Building Code:

Load Sharing:

Deck:

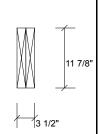
Vibration:

NBCC 2010 / OBC 2012

No

Not Checked

Not Checked



Wind

0

0

Member Information				
Girder				
2				

Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal General Load

Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift) Floor (Residential)

Brg	Live	Dead	Snow	
1	837	383	0	
2	823	385	0	

Bearings and Factored Reactions

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 - SPE 4 375"	18% 482 / 1234	1716 I	1 25D+1 5I

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.
- 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.



7 Lateral slende							
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		

Wind Comments

> 0 lb Wall Self Weight Pass-Thru Framing Squash Block is equired at all point loads over bearings 0 lb

Refer_Jto 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

This design is valid until 10/18/2021

Manufacturer Info APA: PR-L318

0 PLF





Client: Project: Address: Date:

Designer: S B

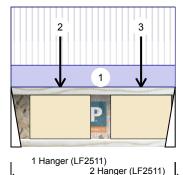
Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

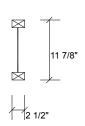
Project #:

11.875" - PASSED LPI 20Plus



12/17/2018





1.25D+1.5L

/	Z Hanger (El Zett)
I 1	2'8 1/2"
I 1	2'8 1/2"

Member Inforr	mation		
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 lb (Uplift)									
)	Brg	Live		Dead	Sno	W	Wind			
	1	291		109		0	0			
2012	2	329		123		0	0			
	Bearing	s and Facto	ored I	Reactions						
	Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.			
	1 - Hanger	2.000"	36%	136 / 436	573	L	1.25D+1.5L			

41%

154 / 493

2.000"

Hanger

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	389 ft-lb	9 3/4"	6250 ft-lb	0.062 (6%)	1.25D+1.5L	L
Shear	642 lb	2'7 1/4"	2345 lb	0.274 (27%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/19148)	11"	0.083 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.004 (L/7173)	11"	0.083 (L/360)	0.050 (5%)	L	L
TL Defl inch	0.006 (L/5218)	11"	0.125 (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 = 0.002"
- 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



647 L

December 18, 2018

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-8-8	(Span)1-3-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-9-12		Near Face	109 lb	291 lb	0 lb	0 lb	J6
3	Point	2-1-12		Near Face	97 lb	259 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

Kott Lumber Company 14 Anderson Blvd, Ontario

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

905-642-4400

Canada

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





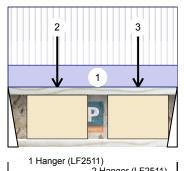
Client: Project: Address: Date: 12/17/2018 Designer: S B

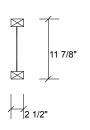
Level: Ground Floor

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

11.875" - PASSED LPI 20Plus







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

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

Analysis R	esults					
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	407 ft-lb	9 3/4"	6250 ft-lb	0.065 (7%)	1.25D+1.5L	L
Shear	641 lb	2'8 1/4"	2345 lb	0.273 (27%)	1.25D+1.5L	L

1'1 3/8" 0.086 (L/360) 0.020 (2%) D Perm Defl in. 0.002 Uniform (L/18458) LL Defl inch 0.004 (L/6920) 1'1 3/8" 0.086 (L/360) 0.050 (5%) L ı TL Defl inch 0.006 (L/5033) 1'1 3/8" 0.129 (L/240) 0.050 (5%) D+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	UNPATTE	ERNED Ib	(Uplift)

Brg	Live	Dead	Snow	Wind
1	304	114	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"	38%	142 / 455	597	L	1.25D+1.5L	
Hanger							
2 -	2.000"	41%	154 / 492	646	L	1.25D+1.5L	
Hanger							



December 18, 2018

	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	Point	0-9-12		Near Face	109 lb	291 lb	0 lb	0 lb	J6
ı	3	Point	2-1-12		Near Face	101 lb	269 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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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







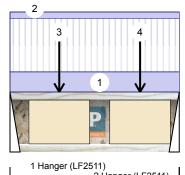
Client: Project: Address: Date: 12/17/2018
Designer: S B

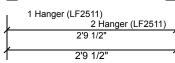
Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

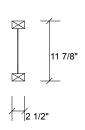
Project #

F14-C LPI 20Plus 11.875" - PASSED

Level: Ground Floor







Wichiber Inform	iation
Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240

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

Member Information

Application: Floor (Residential)
Design Method: LSD
Building Code: NBCC 2010 / OBC 2012

Load Sharing: No

Deck: Not Checked

Vibration: Net Checked

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Live	Dead	Snow	Wind
304	148	0	0
328	161	0	0
	304	304 148	304 148 0

Bearings and Factored Reactions

Bearing	Length	Cap. F	React 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	

Analysis Results

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



December 18, 2018

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	J6
4	Point	2-1-12		Far Face	133 lb	269 lb	0 lb	Pass.	-T∯ru Framiı

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-Tifru 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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Manufacturer Info

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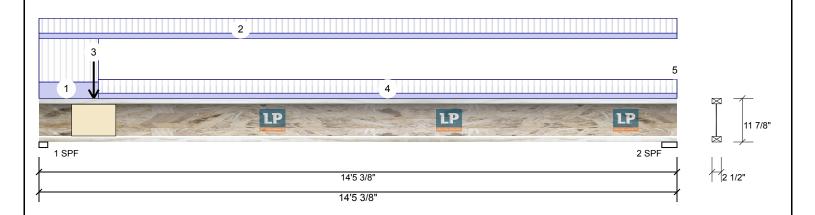
Client: Project: Address: Date: 12/17/2018 Designer: SB

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

11.875" - PASSED LPI 20Plus

Level: Ground Floor



Member Info	rmation			Unfactore	d Reacti	ons UNPATTERN	IED lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	594	223	0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	305	114	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 Fact	ored Reactions		
Dead:	15 PSF			Bearing L	ength.	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 2	375"	71% 278 / 891	1169 L	1.25D+1.5L
				2-SPF 4	.125"	33% 143 / 457	600 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2218 ft-lb	6'6"	6250 ft-lb	0.355 (35%)	1.25D+1.5L	L
Shear	1148 lb	1 5/8"	2345 lb	0.490 (49%)	1.25D+1.5L	L
Perm Defl in.	0.056 (L/3014)	6'11 1/16"	0.468 (L/360)	0.120 (12%)	D	Uniform
LL Defl inch	0.149 (L/1130)	6'11 1/16"	0.468 (L/360)	0.320 (32%)	L	L
TL Defl inch	0.205 (L/822)	6'11 1/16"	0.702 (L/240)	0.290 (29%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.056", Long Term = 0.084"
- 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' o.c.
- 6 Bottom flange braced at bearings.

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December 18, 2018

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-4-2	(Span)2-11-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 14-5-6	(Span)1-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-2-14		Far Face	109 lb	291 lb	0 lb	0 lb	F14
4	Tie-In	1-4-2 to 14-5-6	(Span)0-11-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Part. Uniform	14-4-3 to 14-5-6		Тор	2 PLF	0 PLF	0 PLF		s-Thru Framing Squash Block is uired at all point loads over bearings

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Detail for ply to ply nailing or bolting requirements

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Manufacturer Info

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

Refer to Multiple Member Connection







Client: Project: Address:

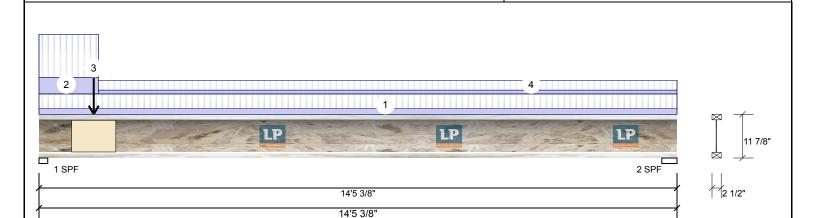
Date: Designer:

12/17/2018 SB

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Level: Ground Floor

LPI 20Plus 11.875" - PASSED



Member Information **Unfactored Reactions UNPATTERNED Ib (Uplift)** Application: Floor (Residential) Dead Wind Type: Brg Live Plies: Design Method: 600 225 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2010 / OBC 2012 2 271 102 0 0 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked 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" 72% 281 / 899 1180 I 1.25D+1.5L 2 - SPF 4.125" 29% 127 / 407 534 1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2028 ft-lb	6'3 5/8"	6250 ft-lb	0.325 (32%)	1.25D+1.5L	L
Shear	1159 lb	1 5/8"	2345 lb	0.494 (49%)	1.25D+1.5L	L
Perm Defl in.	0.051 (L/3291)	6'10 7/16"	0.468 (L/360)	0.110 (11%)	D	Uniform
LL Defl inch	0.137 (L/1233)	6'10 7/16"	0.468 (L/360)	0.290 (29%)	L	L
TL Defl inch	0.188 (L/897)	6'10 7/16"	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 = 0.051", Long Term = 0.077"
- 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

o bottom nange	bracca at bearings.								
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 1-4-2	(Span)2-11-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-2-14		Near Face	123 lb	329 lb	0 lb	0 lb	F14
4	Tie-In	1-4-2 to 14-5-6	(Span)0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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CCMC: 12412-R APA: PR-L238C



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

Refer to Multiple Member Connection

905-642-4400

Detail for ply to ply nailing or bolting requirements Kott Lumber Company 14 Anderson Blvd, Ontario Canada







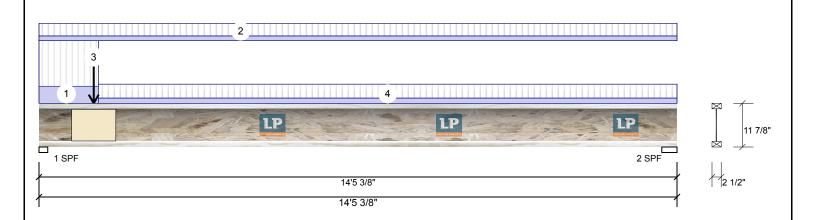
Client: Project: Address: Date: 12/17/2018 Designer: S B

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

11.875" - PASSED LPI 20Plus

Level: Ground Floor



mation			Unfactored	d Reaction	ons UNPATTERN	ED lb (Uplift)	
Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
1	Design Method:	LSD	1	584	219	0	0
n: Dry	Building Code:	NBCC 2010 / OBC 2012	2	281	106	0	0
360	Load Sharing:	No					
240	Deck:	Not Checked					
Normal	Vibration:	Not Checked					
40 PSF			Bearings a	nd Facto	red Reactions		
15 PSF			Bearing Le	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
			1 - SPF 2.	375"	70% 274 / 876	1150 L	1.25D+1.5L
			2 - SPF 4.	125"	30% 132 / 422	554 L	1.25D+1.5L
	1 on: Dry 360 240 Normal	Girder 1 Design Method: Building Code: 1 Load Sharing: 240 Deck: Normal Vibration: 40 PSF 15 PSF	Girder 1 Design Method: LSD 2010 Design Method: LSD Building Code: NBCC 2010 / OBC 2012 Load Sharing: No 240 Deck: Not Checked Normal Vibration: Not Checked	Application: Floor (Residential) Brg 1	Application: Floor (Residential) Brg Live	Application: Floor (Residential) Brg Live Dead	Application: Floor (Residential) Brg Live Dead Snow

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2075 ft-lb	6'4 7/8"	6250 ft-lb	0.332 (33%)	1.25D+1.5L	L
Shear	1130 lb	1 5/8"	2345 lb	0.482 (48%)	1.25D+1.5L	L
Perm Defl in.	0.052 (L/3218)	6'10 3/4"	0.468 (L/360)	0.110 (11%)	D	Uniform
LL Defl inch	0.140 (L/1207)	6'10 3/4"	0.468 (L/360)	0.300 (30%)	L	L
TL Defl inch	0.192 (L/878)	6'10 3/4"	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 7'2" o.c.

	st be laterally braced a braced at bearings.	it a maximum oi 7 i	2 O.C.					Dec	ember 18, 2018
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-4-2	(Span)3-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 14-5-6	(Span)0-10-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-2-14		Far Face	114 lb	304 lb	0 lb	0 lb	F14
4	Tie-In	1-4-2 to 14-5-6	(Span)0-11-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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IN THE DESIGN OF THIS COMPONENT.

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Detail for ply to ply nailing or bolting requirements Kott Lumber Company 14 Anderson Blvd, Ontario Manufacturer Info

Canada

905-642-4400

Pass-Thru Framing Squash Block is

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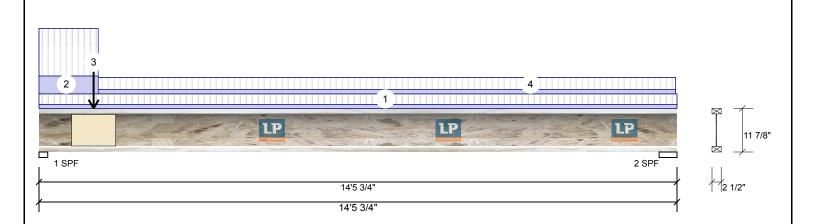
Client: Project: Address: Date: 12/17/2018 Designer: SB

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

11.875" - PASSED LPI 20Plus

Level: Ground Floor



Member Info	rmation			Unfactore	d Reacti	ons UNPATTERN	ED lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	562	211	0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	236	88	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 Fact	ored Reactions		
Dead:	15 PSF			Bearing L	ength	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 2	.375"	68% 264 / 844	1107 L	1.25D+1.5L
				2-SPF 4	.875"	25% 111 / 354	464 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1783 ft-lb	6'1 11/16"	6250 ft-lb	0.285 (29%)	1.25D+1.5L	L
Shear	1088 lb	1 5/8"	2345 lb	0.464 (46%)	1.25D+1.5L	L
Perm Defl in.	0.045 (L/3744)	6'9 13/16"	0.467 (L/360)	0.100 (10%)	D	Uniform
LL Defl inch	0.120 (L/1404)	6'9 13/16"	0.467 (L/360)	0.260 (26%)	L	L
TL Defl inch	0.165 (L/1021)	6'9 13/16"	0.700 (L/240)	0.240 (24%)	D+L	L

Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = 0.045", Long Term = 0.067"
- 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 7'8" o.c.
- 6 Bottom flange braced at bearings.

o Bottom nango	pracea at bearinge.								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 14-5-12	(Span)0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-4-2	(Span)3-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-2-14		Near Face	123 lb	328 lb	0 lb	0 lb	F14
4	Tie-In	1-4-2 to 14-5-6	(Span)0-9-0	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.

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Canada 905-642-4400

Kott Lumber Company 14 Anderson Blvd, Ontario

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

Refer to Multiple Member Connection

Detail for ply to ply nailing or bolting

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December 18, 2018

requirements







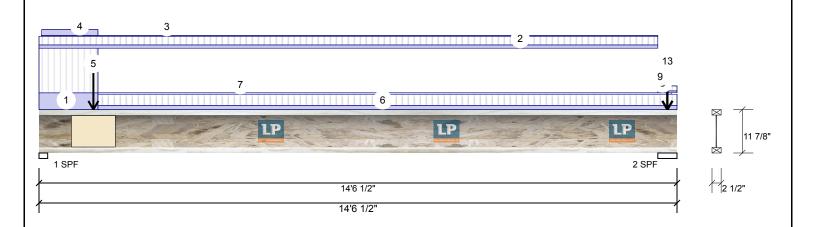
Client: Project: Address: Date: 12/17/2018
Designer: S B

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #

F15-E LPI 20Plus 11.875" - PASSED

Level: Ground Floor



Member Info	rmation			Unfactore	ed Reaction	ons UNPATTERNE	D lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	551	270	0	0
Moisture Conditi	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	561	280	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	2.375"	71% 338 / 827	1164 L	1.25D+1.5L
				2-SPF 5	5.250"	65% 350 / 842	1191 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.

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

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

0 PSF ₀ <mark>Pୁୟୁs-Thru Framing Squash Block is required at all point loads over bearings</mark> 0 PLF

Refer #94Multiple Member Connection Detail for ply to ply nailing or bolting requirements

Notes

Continued on page 2...

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Wind

0 PSF

Comments







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

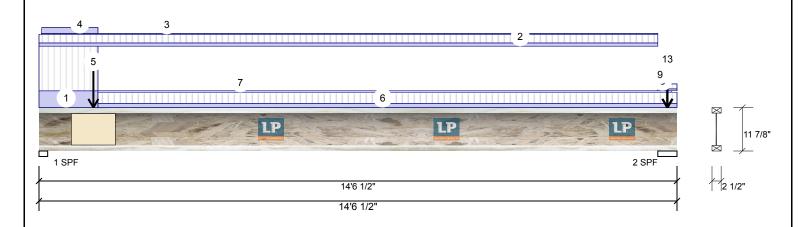
SB

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

11.875" - PASSED LPI 20Plus

Level: Ground Floor



Continued from p	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	50 lb	134 lb	0 lb	0 lb	J6
	Bearing Length	0-1-8							
11	Point	14-3-14		Тор	31 lb	80 lb	0 lb	0 lb	J1
	Bearing Length	0-1-8							
12	Point	14-3-14		Тор	47 lb	124 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							



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

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IN THE DESIGN OF THIS COMPONENT.

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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





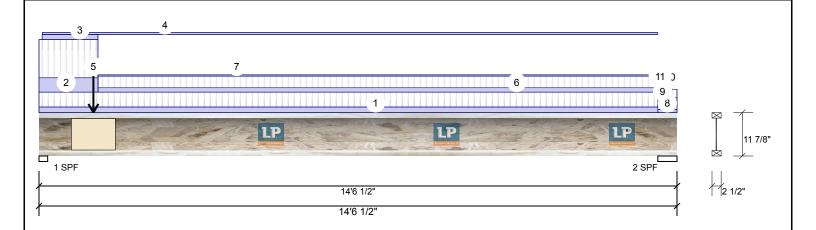


Client: Project: Address: Date: 12/17/2018 Designer: SB

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

11.875" - PASSED LPI 20Plus

Level: Ground Floor



Member Infor	Unfactored Reactions UNPATTERNED Ib (Uplift)									
Type:	Girder	Application:	Floor (Residential)	Brg	Live		Dead	Snow	V	Wind
Plies:	1	Design Method:	LSD	1	632		311	(0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2010 / OBC 2012	2	327		162	(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 Fac	tored F	Reactions			
Dead:	15 PSF			Bearing	Length	Сар.	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	I	1 25D+1 5I

Analysis Results

Actual	Location	Allowed	Capacity	Comb.	Case
2576 ft-lb	6'6 5/16"	6250 ft-lb	0.412 (41%)	1.25D+1.5L	L
313 lb	1 5/8"	2345 lb	0.560 (56%)	1.25D+1.5L	L
).079 (L/2119)	6'11 3/16"	0.468 (L/360)	0.170 (17%)	D	Uniform
).161 (L/1047)	6'11 3/16"	0.468 (L/360)	0.340 (34%)	L	L
).240 (L/701)	6'11 3/16"	0.702 (L/240)	0.340 (34%)	D+L	L
)	576 ft-lb 313 lb .079 (L/2119) .161 (L/1047)	576 ft-lb 6'6 5/16" 313 lb 1 5/8" .079 (L/2119) 6'11 3/16" .161 (L/1047) 6'11 3/16"	576 ft-lb 6'6 5/16" 6250 ft-lb 313 lb 1 5/8" 2345 lb .079 (L/2119) 6'11 3/16" 0.468 (L/360) .161 (L/1047) 6'11 3/16" 0.468 (L/360)	576 ft-lb 6'6 5/16" 6250 ft-lb 0.412 (41%) 313 lb 1 5/8" 2345 lb 0.560 (56%) .079 (L/2119) 6'11 3/16" 0.468 (L/360) 0.170 (17%) .161 (L/1047) 6'11 3/16" 0.468 (L/360) 0.340 (34%)	576 ft-lb 6'6 5/16" 6250 ft-lb 0.412 (41%) 1.25D+1.5L 313 lb 1 5/8" 2345 lb 0.560 (56%) 1.25D+1.5L .079 (L/2119) 6'11 3/16" 0.468 (L/360) 0.170 (17%) D .161 (L/1047) 6'11 3/16" 0.468 (L/360) 0.340 (34%) 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.

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

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 to 0-11-0	Тор	15 PSF	40 PSF	0 PSF

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

⁰ 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.

6 Bottom flange braced at bearings.

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Manufacturer Info

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Wind

0 PSF 0 PSF Comments







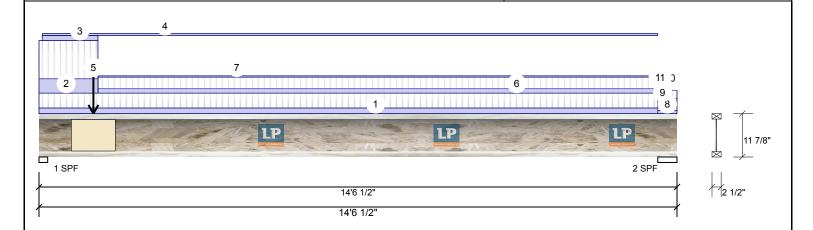
Client: Project: Address: Date: 12/17/2018
Designer: S B

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #

F15-F LPI 20Plus 11.875" - PASSED

Level: Ground Floor



ı	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	
ı	11	Part. Uniform	14-1-4 to 14-5-4		Top	2 PLF	0 PLF	0 PLF	0 PLF	



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This design is valid until 10/31/2020

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

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







Client: Project: Address: 12/17/2018

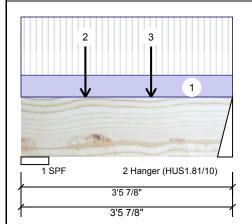
Designer: S B

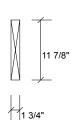
Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

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

Level: Ground Floor





Member 1	Information
Type:	Girder
Plies:	1

Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 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 Deck: Not Checked

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	360	170	0	0
2	259	122	0	0

Bearings and Factored Reactions

Bearing	Length	Сар.	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

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



December 18, 2018

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				Thru Framing Squash Block is ed at all point 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

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 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



This design is valid until 10/18/2021

Manut	facturer	Info

APA: PR-L318







Project: Address:

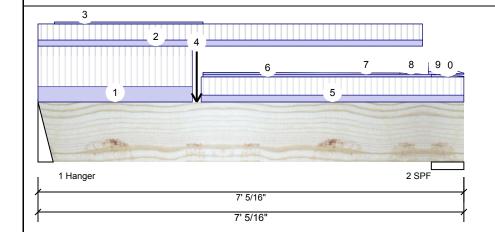
12/17/2018 Designer: S B

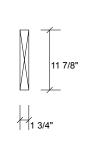
Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

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

Level: Ground Floor





Member Info	rmation			Unfactored Reactions UNPATTERNED lb (Uplift)						
Type:	Girder	Application:	Floor (Residential)	Brg	Live		Dead	Snow	Wind	
Plies:	1	Design Method:	LSD	1	410	ı	199	0	0	
Moisture Condition	on: 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			Bearing	s and Fac	tored R	Reactions			
Dead:	15 PSF			Bearing	Length	Сар.	React D/L lb	Total Ld. Case	Ld. Comb.	
				1 - Hanger	3.000"	22%	248 / 615	864 L	1.25D+1.5L	
Analysis Resu	lts			2 - SPF	6.438"	9%	195 / 442	637 L	1.25D+1.5L	

ľ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
l	Moment	1478 ft-lb	2'7 7/16"	17130 ft-lb	0.086 (9%)	1.25D+1.5L	L
l	Unbraced	1478 ft-lb	2'7 7/16"	7067 ft-lb	0.209 (21%)	1.25D+1.5L	L
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
l	LL Defl inch	0.013 (L/5910)	3' 1/8"	0.212 (L/360)	0.060 (6%)	L	L

3' 5/16" 0.318 (L/240) 0.060 (6%) D+L

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December 18, 2018

Design Notes

1 Fill all hanger nailing holes.

TL Defl inch 0.019 (L/3933)

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

4 Bottom braced at bearings

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L

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
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	0 ₽@\$S-	Thru Framing Squash Block is
6	Part. Uniform	2-8-10 to 6-5-14		Тор	4 PLF	0 PLF	0 PLF	o PLF	red at all point loads over bearings
7	Tapered Start	2-8-10		Тор	3 PLF	0 PLF	0 PLF	0 Refer	to Multiple Member Connection

Continued on page 2...

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 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



This	design	is	valid	until	10/18/202	?

Manufacturer Info

Forex

APA: PR-L318

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

Detail for ply to ply nailing or bolting

requirements





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Client: Project:

Address:

Date: 12/17/2018

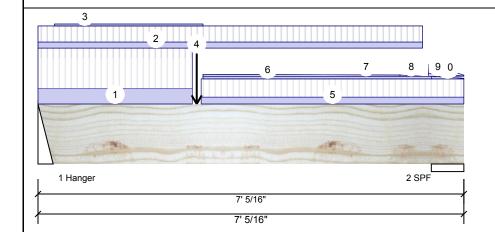
Designer:

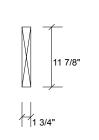
Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

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

Level: Ground Floor





Continued from p	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				



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

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

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



This design is valid until 10/18/2021

Manufacturer Info

APA: PR-L318







Client: Project: Address:

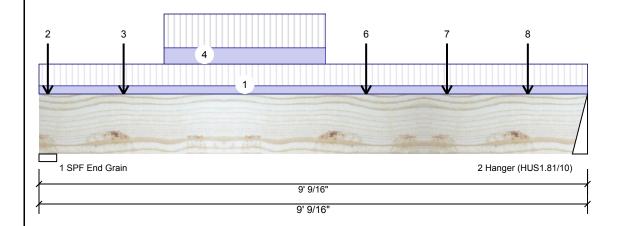
12/17/2018 Designer: S B

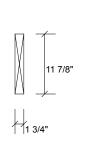
Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

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

Level: Ground Floor





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		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	1200	535	0	0
2	1290	544	0	0

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

– cag.	and racte		teactions			
Bearing	Length	Сар.	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		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.



December 18, 2018

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
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	J3
4	Part. Uniform	2-0-12 to 4-8-12		Far Face	59 PLF	123 PLF	0 PLF	0 PLF	
6	Point	5-4-12		Far Face	126 lb	296 lb	0 lb	0 lb	J3
7	Point	6-8-12		Far Face	156 lb	393 lb	0 lh	0 lb	.13

Continued on page 2...

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

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



This design is valid until 10/18/2021

Manufacturer Info lefer to Multiple Member Col

extend from a ply nailing o equirements

Kott Lumber Company
11 Anderson Blvd, Ontario
Canada
Dag Man g

905-642-4400





isDesign™

Client: Project:

Address:

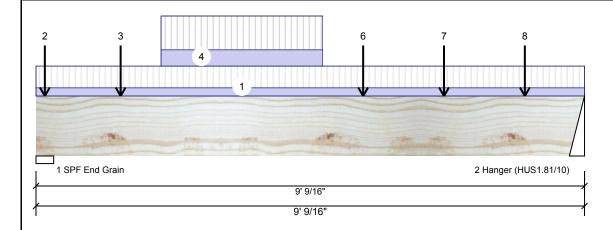
Date:

12/17/2018 Designer: SB Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

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

Level: Ground Floor



.Continued from page 1

ID Location Trib Width Side Comments Load Type Dead Live Snow Wind 8 Point Far Face 141 lb 352 lb 0 lb 0 lb J3 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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READ ALL NOTES ON THIS PAGE AND ON THE

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ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE

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 LVL not to be treated with fire retardant or corrosive
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 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

Forex APA: PR-L318







Client: Project:

Address:

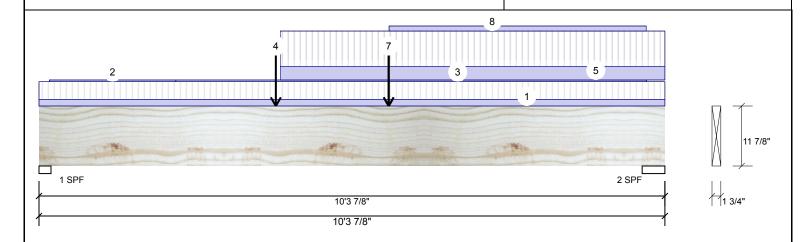
12/17/2018 Date: Designer: SB

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #

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

Level: Ground Floor



Member Information					Unfactored Reactions UNPATTERNED lb (Uplift)					
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind		
Plies:	1	Design Method:	LSD	1	949	425	0	0		
Moisture Conditi	on: 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	and Fact	ored Reactions				
Dead:	15 PSF			Bearing L	ength.	Cap. React D/L lb	Total Ld. Case	Ld. Comb.		
				1 - SPF 2	375"	76% 531 / 1424	1955 L	1.25D+1.5L		
		ļ		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.

December 18, 2018 ID Load Type Trib Width Location Side Wind Dead Live Snow COMMENTS Tie-In 0-0-0 to 10-3-14 (Span)0-6-5 Top 15 PSF 40 PSF 0 PSF 0 PSF 1 0 PLF 0 PLF 0 PLF 2 Part. Uniform 0-2-1 to 2-3-1 Top 1 PLF 3 Part. Uniform 2-3-1 to 10-0-4 Top 1 PLF 0 PLF 0 PLF 0 PLF 1290 lb Point 3-10-14 Far Face 544 lb 0 lb 0 lb 5 Tie-In 3-11-12 to 10-3-14 (Span)1-0-11 Top 15 PSF 40 PSF 0 PSF 0 PSF 6 Point 5-9-3 Top 48 lb 127 lb 0 lb 0 lb Point 5-9-3 Top 4 lb 12 lb 0 lb 0 lb

Top

8

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.

Part. Uniform

Self Weight

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

5-9-5 to 10-0-3

- LVL beams must not be cut or drilled Refer to manufacturer's product regarding installation requirement
- 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 prever ponding

0 PLF

3 PLF

5 PLF

This design is valid until 10/18/2021

0 PLF

Manufacturer Info Refer to Multiple Member C e hailfor ply nailing o equirements

0 PLF

Pass-Thru Framing Squash Block is

required at all point loads over bearings

Kott Lumber Company Canada NO HVING 905-642-4400

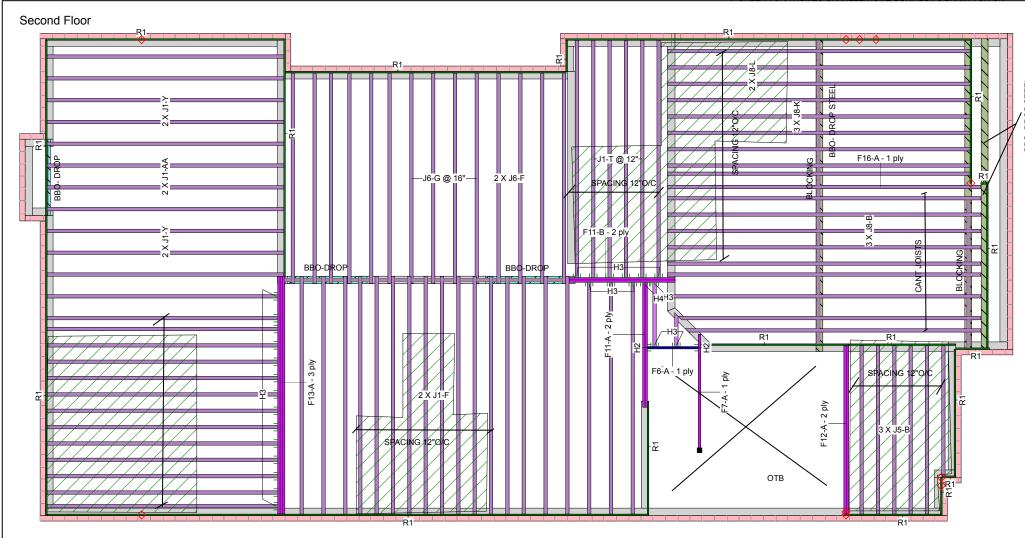
PROFESSIONAL

I.MATIJEVIC 100528832

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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.





- Architectural Drawing Info
- JARDIN DESIGN GROUP INC 64 JARDIN DR,SUITE 3A VAUGHAN,ON, L4K 3P3
- Project # 17-55 Model: LOT-6 (AMELIA EL-1) 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)



								IM1
Second	Floor							
LVL/LS	L (Flush)							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	NAS
F13	Forex 2.0E-3000Fb LVL	1.75	11.875	1	3	3	16-0-0	
F12	Forex 2.0E-3000Fb LVL	1.75	11.875	1	2	2	12-0-0	Layout Name LOT-6 (AMELIA 3 E
F11	Forex 2.0E-3000Fb LVL	1.75	11.875	2	2	4	8-0-0	Design Method LSD
F7	Forex 2.0E-3000Fb LVL	1.75	11.875			1	8-0-0	Description
F6	Forex 2.0E-3000Fb LVL	1.75	11.875			1	4-0-0	GREEN YORK HON GRANELLI HOMES
I Joist (Flush)							BRAMPTON,ON
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	Created
J8	LPI 20Plus	2.5	11.875			18	20-0-0	May 29, 2018
J1	LPI 20Plus	2.5	11.875			50	16-0-0	Builder
J6	LPI 20Plus	2.5	11.875			14	14-0-0	0 1 5
J5	LPI 20Plus	2.5	11.875			5	12-0-0	Sales Rep
J3	LPI 20Plus	2.5	11.875			1	8-0-0	Designer
F16	LPI 20Plus	2.5	11.875			1	20-0-0	SB
J9	NJH	2.5	11.875			2	4-0-0	Shipping
Rim Bo								Project
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	,
R1	Norbord Rimboard	1.125	11.875			17	12	Builder's Project
	Plus 1.125 X 11.875							Kott Lumber C
Blockin								14 Anderson Blvd
Label	Description	Width	Depth	Qty	Plies	Pcs	Length	Stouffville, Ontario
BLK1	LPI 20 Plus	2.5	11.875	LinFt		Varies	34-0-0	Canada
Hanger								L4A 7X4
				Bea	am/Girde	r Sup	ported	905-642-4400
1						Me	emher	Second Floor

						Member
Label	Pcs	Description	Skew	Slope	fasteners	fasteners
H2	2	HUS1.81/10			30 16d	10 16d
H3	26	LF2511			12 10d	1 #8x1 1/4W
H4	1	HGUS410			46 16d	16 16d

NOTES:

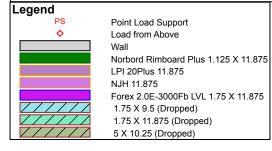
- Framer to verify dimensions on the architectural drawings.
- 2. Double joist only require filler/backer ply when supporting another member using a face-mounted hanger.
- Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls.
 Install single-ply flush window header along inside face of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



IACCOD

jth	NASCUR
0-0	
0-0	Layout Name
	LOT-6 (AMELIA 3 EL-1 _5BEDRM)
0-0	Design Method
)-()	LSD
)-0	Description
	OBEENINOBICHOMEO

Description
GREEN YORK HOMES GRANELLI HOMES PROJECT BRAMPTON,ON
Created
May 29, 2018
Builder

les Rep signer ipping piect

ott Lumber Company Anderson Blvd ouffville, Ontario anada

Second Floor Design Method LSD Building Code NBCC 2010 / OBC 2012 WS

Floor Loads Live Dead 15 **Deflection Joist** LL Span L/ 480 TL Span L/ 360 480 LL Cant 2L/ TL Cant 2L/ 360 Deflection Girder 360 LL Span L/ TL Span L/ 240 480 LL Cant 2L/ TL Cant 2L/ 360 Decking Deck OSB Thickness 5/8"

Nailed & Glued

Gypsum 1/2"

Fastener

Vibration

Ceiling:

isDesign™

Client: Project: Address:

Date: 12/17/2018 Designer:

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

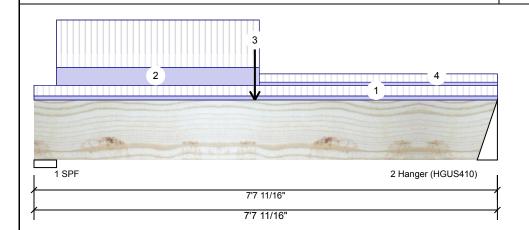
2-Ply - PASSED

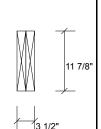
Brg

2

Hanger

Level: Second Floor





Wind

0

0

1.25D+1.5L

Member Information	Mem	ber	Infor	mation
---------------------------	-----	-----	-------	--------

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		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Live 489

372

4.000"

Dead

224

179

Bearings and Factored Reactions									
Bearing Length	Cap. React	D/L lb Total	Ld. Case	Ld. Comb.					
1 - SPF 4.467"	11% 28	0 / 733 1013	L	1.25D+1.5L					

224 / 558

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.

15 PSF

- 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.



0

0

782 L

December 18, 2018

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 7-7-11	(Span)0-9-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-4-7 to 3-8-9	(Span)3-4-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	3-7-11		Near Face	187 lb	477 lb	0 lb	0 lb	F6
4	Tie-In	3-8-9 to 7-7-11	(Span)0-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				10 PLF				ng Squash Block is int loads over bearings

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

This design is valid until 10/18/2021

Refer to Multiple Member Connection

Detail for ply to ply nailing requirements

APA: PR-L318

Getth orbin Company 14 Anderson Blvd, Ontario Canada 905-642-4400







Client: Project: Address:

12/17/2018 Date: Designer:

SB

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

2-Ply - PASSED

Brg

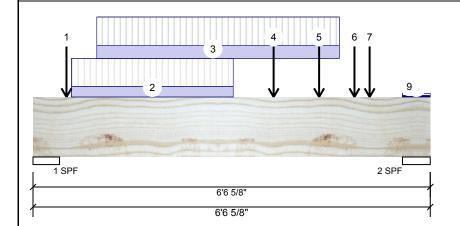
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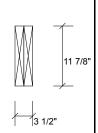
Bearing Length

1 - SPF 5.250"

2 - SPF 5.500"

Level: Second Floor





Wind

0

0

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

B 4			٠		- • •	
Mem	ner	Int	nr	m	ati	იn
	~~.		•		м с.	•

Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition	n: 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

Live

1641

1474

896 / 2461

830 / 2211

717

664

Cap. React D/L lb

30%

26%

Analysis Results

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	3587 lb	5'2"	11596 lb	0.309 (31%)	1.25D+1.5L	L
Perm Defl in.	0.009 (L/7426)	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
		•		•	•	

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.



O

0

Total Ld. Case

3357 L

3042 L

December 18, 2018

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-6-10		Far Face	113 lb	256 lb	0 lb	0 lb	J1
2	Part. Uniform	0-7-10 to 3-3-10		Near Face	105 PLF	280 PLF	0 PLF	0 PLF	
3	Part. Uniform	1-0-10 to 5-0-10		Far Face	127 PLF	286 PLF	0 PLF	0 PLF	
4	Point	3-11-10		Near Face	111 lb	296 lb	0 lb	0 lb	J1
5	Point	4-8-10		Near Face	179 lb	372 lb	0 lb	0 lb	F11
6	Point	5-3-10		Near Face	25 lb	67 lb	0 lb	0 lb	J9

Continued on page 2...

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

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



This design is valid until 10/18/2021

Reference Multiple Member Connection Property 14 Anderson Blvd, Ontario Detail for ply to ply nailing **ABGUITEMENTS**

905-642-4400





isDesign™

Client: Project: Address:

Designer:

12/17/2018

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

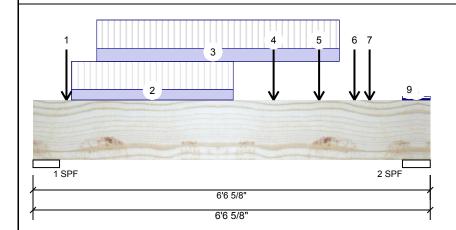
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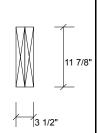
Forex 2.0E-3000Fb LVL

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	98 lb	221 lb	0 lb	0 lb	J1
8	Tie-In	6-1-2 to 6-6-10	(Span)0-3-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
9	Tie-In	6-1-2 to 6-6-10	(Span)1-0-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	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

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.

READ ALL NOTES ON THIS PAGE AND ON THE

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



This design is valid until 10/18/2021

Manufacturer Info

APA: PR-L318





isDesign™

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

SB

Level: Second Floor

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

Brg

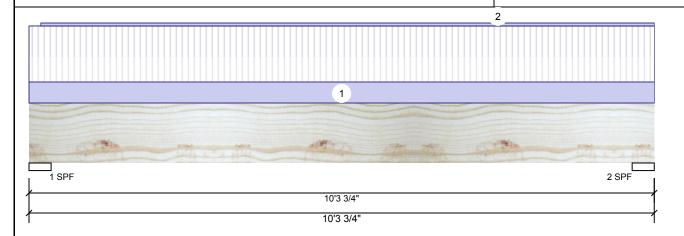
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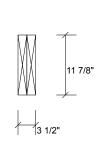
2

1 - SPF 4.375"

2 - SPF 4.375"

1.750" X 11.875" Forex 2.0E-3000Fb LVL 2-Ply - PASSED





Wind

0

0

1.25D+1.5L

1.25D+1.5L

I	/le	m	De	er	In	ITC	or	m	a	CI	0	n

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)

3%

3%

Manufacturer Info

APA: PR-L318

Forex

Dead

91

91

Snow

O

0

259 L

259 L

Live

97

97

Description of East	to a December							
Bearings and Factored Reactions								
Bearing Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.					

113 / 146

113 / 146

Analysis Results

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 slend	derness ratio based o								
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	0 PLF	
Self Weight 10 PLF								aming Squash Block is	

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.

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

This design is valid until 10/18/2021



December 18, 2018

Refer to Multiple Member Connection

required at all point loads over bearings







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

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

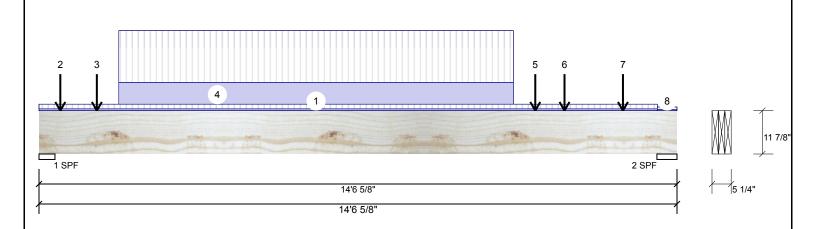
Project #:

Forex 2.0E-3000Fb LVL

1.750" X 11.875"

3-Ply - PASSED

Level: Second Floor



Member Info	rmation			Unfactored	l Reactio	ns UNPATTERNI	ED lb (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Live	Dead	Snow	Wind
Plies:	3	Design Method:	LSD	1	2133	983	0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2010 / OBC 2012	2	2054	923	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 ar	nd Factor	ed Reactions		
Dead:	15 PSF			Bearing Le	ngth	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 4.3	375"	31% 1228 / 3200	4428 L	1.25D+1.5L
				2 - SPF 5.5	500"	24% 1154 / 3081	4234 L	1.25D+1.5L
\ !- D								

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	15054 ft-lb	7'2 13/16"	53447 ft-lb	0.282 (28%)	1.25D+1.5L	L
Unbraced	15054 ft-lb	7'2 13/16"	50470 ft-lb	0.298 (30%)	1.25D+1.5L	L
Shear	4341 lb	1'3 1/2"	17394 lb	0.250 (25%)	1.25D+1.5L	L
Perm Defl in.	0.084 (L/1972)	7'2 5/8"	0.462 (L/360)	0.180 (18%)	D	Uniform
LL Defl inch	0.185 (L/899)	7'2 7/8"	0.462 (L/360)	0.400 (40%)	L	L
TL Defl inch	0.269 (L/618)	7'2 13/16"	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

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 14-1-4	(Span)1-3-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
2	Point	0-5-13		Far Face	80 lb	190 lb	0 lb	0 lb	J1	
3	Point	1-3-13		Far Face	107 lb	255 lb	0 lb	0 lb	J1	
4	Part. Uniform	1-9-13 to 10-9-13		Far Face	116 PLF	278 PLF	0 PLF	0 PLF		
5	Point	11-3-13		Far Face	89 lb	232 lb	0 lb	0 lb	J1	
6	Point	11-11-13		Far Face	104 lb	278 lb	0 lb	0 lb	J1	

Continued on page 2...

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

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



Manufacturer Info Refer to Multiple Member Cor Park Fort ply to ply nailing or quirements

Kott Lumber Company

11464150999 Blvd, Ontario
Canada

2015415

905-642-4400



This design is valid until 10/18/2021



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Client: Project:

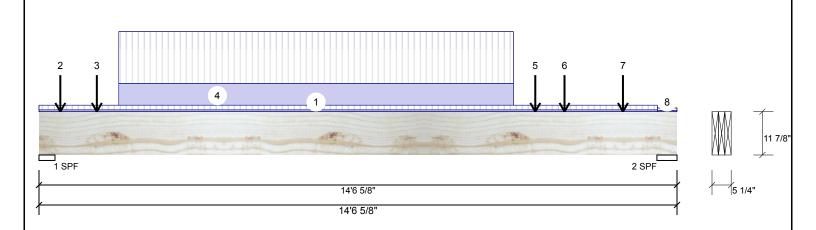
Address:

Date: 12/17/2018 Designer: S B

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

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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NOtes

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

Handling & Installation

L. UV. 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



This design is valid until 10/18/2021

Manufacturer Info

APA: PR-L318







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

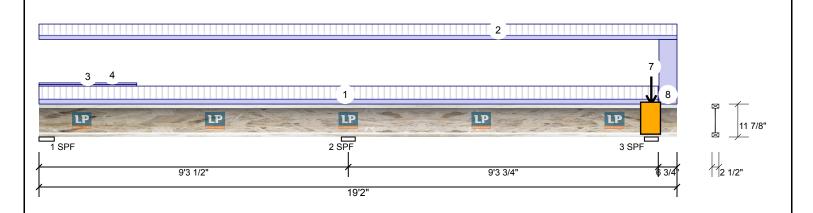
Designer: S B

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #

F16-A LPI 20Plus 11.875" - PASSED

Level: Second Floor



Member Info	rmation		
Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method	f: LSD
Moisture Condition	on: 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		
1			

Brg	Live	Dead	Snow	Wind
1	116	54	1	0
2	322	118	0 (-4)	0
3	331	338	201	0

Bearings and Factored Reactions

Bearing	Length	Cap. Re	act D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	14%	67 / 193	260	L	1.25D+1.5L
2 - SPF	5.000"	16%	149 / 502	652	LL_	1.25D+1.5L
3 - SPF	5.000"	34%	421 / 617	1038	_LLL	1.25D+1.5L +0.5S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-577 ft-lb	9'3 1/2"	6250 ft-lb	0.092 (9%)	1.25D+1.5L	LL_
Pos Moment	431 ft-lb	4'1 3/4"	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/21427)	4'5 3/8"	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/5239)	4'7 3/4"	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/5512)	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 = 0.007"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top flange braced at bearings.
- 6 Bottom flange braced at bearings.

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

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 unt

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





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Client: Project: Address:

Date: 12/17/2018 Designer:

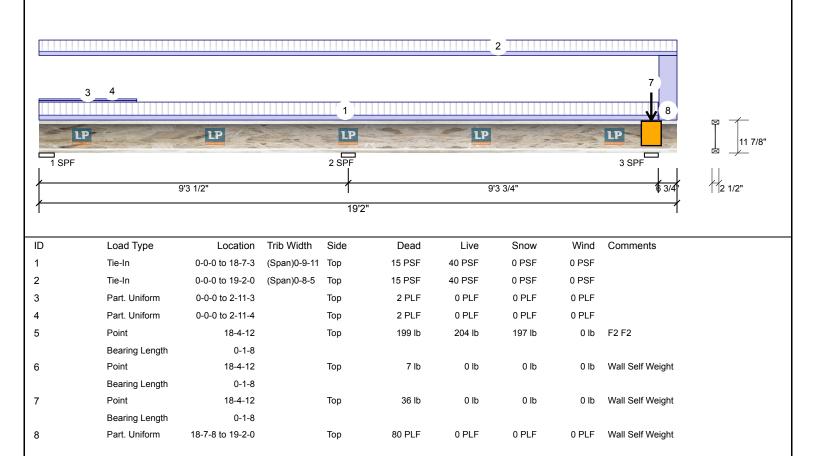
SB

Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #

11.875" - PASSED LPI 20Plus

Level: Second Floor





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

IS AN INTEGRAL PART OF THIS DRAWING AS IT **CONTAINS SPECIFICATIONS AND CRITERIA USED** IN THE DESIGN OF THIS COMPONENT.

READ ALL NOTES ON THIS PAGE AND ON THE

ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE

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







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

Designer: S B

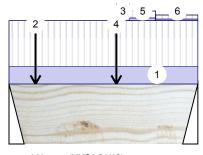
Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

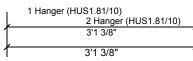
Project #:

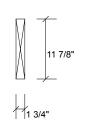
Forex 2.0E-3000Fb LVL

1.750" X 11.875" - PASSED

Level: Second Floor







Wind

0

0

0

0

Member Inform	nation			Unfacto	red Reac	tions U	NPATT
Type:	Girder	Application:	Floor (Residential)	Brg	Live		Dead
Plies:	1	Design Method:	LSD	1	477		187
Moisture Condition	: Dry	Building Code:	NBCC 2010 / OBC 2012	2	449		176
Deflection LL:	360	Load Sharing:	No				
Deflection TL:	240	Deck:	Not Checked				
Importance:	Normal	Vibration:	Not Checked				
General Load							
Floor Live:	40 PSF			Bearing	s and Fac	tored I	Reactio
Dead:	15 PSF			Bearing	Length	Сар.	React D
				1 -	3.000"	24%	233

Analysis I	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

TERNED Ib (Uplift) Snow

ı								
Bearings and Factored Reactions								
I	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	

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.



December 18, 2018

	Self Weight				5 PLF			_	Squash Block
6	Tie-In	2-5-0 to 3-1-6	(Span)1-0-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	1-11-14 to 2-5-0	(Span)1-9-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	1-9-4		Far Face	23 lb	61 lb	0 lb	0 lb	J9
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	0 PSF	
2	Point	0-5-4		Far Face	28 lb	74 lb	0 lb	0 lb	J9
1	Part. Uniform	0-0-0 to 3-1-6		Тор	90 PLF	240 PLF	0 PLF	0 PLF	
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments

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



This design is valid until 10/18/2021

k is equired at all point loads over bearings

Kott Lumber Company 14 Anderson Blvd, Ontario Manufacturer Info Refeexto Multiple Member Co

etaning o equirements







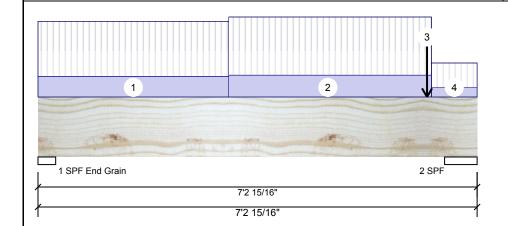
Client: Project: Address: Date: 12/17/2018 Designer: SB

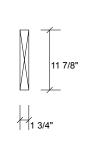
Job Name: LOT-6 (AMELIA 3 EL-1 _5BEDRM)

Project #:

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

Level: Second Floor





Wind

0

0

1 2ED±1 EI

0

0

1200 1

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 Brg Live

19%

110

266

248

643

2

Grain

2 - SPF 6.438"

Live

40 PSF

40 PSF

449 lb

40 PSF

Bearings and Factored Reactions								
Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.		
1 - SPF End	3.500"	11%	138 / 372	510	L	1.25D+1.5L		

333 / 065

Analysis Results

Dead:

15 PSF

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

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December 18, 2018

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

Wind

0 PSF

0 PSF

0 PSF

0 lb F6

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

IS AN INTEGRAL PART OF THIS DRAWING AS IT **CONTAINS SPECIFICATIONS AND CRITERIA USED** IN THE DESIGN OF THIS COMPONENT.

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-2. THE NOTE PAGE

NOtes

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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



This design is valid until 10/18/2021

Manufacturer Info

Snow

0 PSF

0 PSF

0 PSF

0 lb

APA: PR-L318



