

OF PERMIT PLANS roject: Nov 22 2023

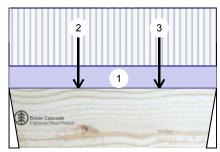
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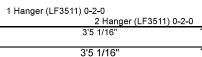
Job Name: ROSE 3-2 STD

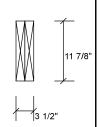
Project #

Versa-Lam LVL 2.1E 31<mark>(</mark>0 SP <u>เคเล**นกร์บะ** จ**X**เป๋ 1.8</u>75









Member Information Application: Floor (Residential) Type Plies 2 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF 15 PSF Dead:

	Brg	Direction	Live	Dead	Snow	Wind
	1	Vertical	256	117	0	0
e)	2	Vertical	272	123	0	0
	Bear	rings and F	actored Reactio	ns		

Unfactored Reactions UNPATTERNED lb (Uplift)

Analysis Results Analysis Actual Location Allowed Capacity Comb. Case Moment 1'5 1/4" 35392 ft-lb 483 ft-lb 0.014 (1%) 1.25D+1.5L L Unbraced 483 ft-lb 1'5 1/4" 35392 ft-lb 0.014 (1%) 1.25D+1.5L L 1.25D+1.5L L 445 lb 2'3 3/16" 13217 lb 0.034 (3%) Shear Perm Defl in 0.000 1'8 3/8" 0.107 (L/360) 0.002 (0%) Uniform (L/174735) 0.001 1'8 3/8" 0.107 (L/360) 0.005 (0%) L LL Defl inch (L/76866) TL Defl inch 0.001 1'8 3/8" 0.161 (L/240) 0.004 (0%) D+L (L/53383)

Cap. React D/L lb Bearing Length Dir. Total Ld. Case Ld. Comb. 1 -2.000" Vert 7% 146 / 384 530 L 1.25D+1.5L Hanger 2 -2.000" Vert 7% 153 / 408 562 L 1.25D+1.5L Hanger



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

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Right Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Multiple plies must be fastened together as per manufacturer's details.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be continuously laterally braced.
- 9 Bottom must have sheathing attached or be continuously braced.
- 10 Lateral slenderness ratio based on full section width.

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

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr. Ottawa, Ontario 613-838-2775 / 905-642-4400





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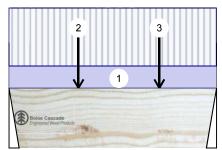
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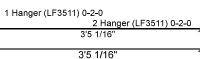
Job Name: ROSE 3-2 STD

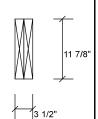
Project #

Versa-Lam LVL 2.1E 3100 SP CHEF 1.7.50 CONCILL.875

Level: Ground Floor 2-PIV- RASSED







I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-5-1		Тор	19 PLF	50 PLF	0 PLF	0 PLF	
2	Point	1-1-12		Far Face	70 lb	186 l b	0 lb	0 l b	J2
3	Point	2-5-12		Far Face	64 lb	171 l b	0 lb	0 l b	J2
	Self Weight				12 PLF				



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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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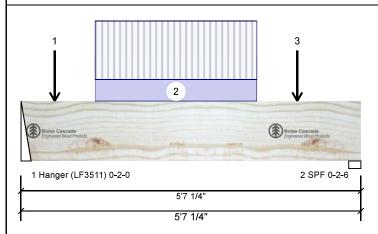
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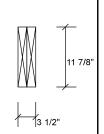
Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 310 SP CHIET - 71.50 SO X CA 1.875

Level: Ground Floor





Wind

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

0

0

Snow

214 L

0

n

Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Type: Brg Direction Live Dead Plies: 2 Design Method: LSD Vertical 99 70 1 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 88 66 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case 2.000" Vert 3% 87 / 148 235 L Hanger

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	310 ft-lb	2'9 7/16"	35392 ft-lb	0.009 (1%)	1.25D+1.5L	L
Unbraced	310 ft-lb	2'9 7/16"	35392 ft-lb	0.009 (1%)	1.25D+1.5L	L
Shear	233 lb	1'1 7/8"	13217 l b	0.018 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/133245)	2'9 7/16"	0.179 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/92667)	2'9 1/2"	0.179 (L/360)	0.004 (0%)	L	L
TL Defl inch	0.001 (L/54656)	2'9 7/16"	0.268 (L/240)	0.004 (0%)	D+L	L



82 / 132

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Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
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- 3 Left Header: DF, Thickness: 3 1/2"
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- 7 Bottom must have sheathing attached or be continuously braced.
- 8 Lateral slenderness ratio based on full section width.

I D	Load Type	Location Trib Width	n Side	Dead	Live	Snow	Wind	Comments	
1	Point	0-6-11	Near Face	15 l b	39 lb	0 lb	0 lb	J1	
2	Part. Uniform	1-2-11 to 3-10-11	Near Face	14 PLF	38 PLF	0 PLF	0 PLF		
3	Point	4-6-11	Near Face	17 l b	46 l b	0 b	0 lb	J1	
	Self Weight			12 PLF					

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 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 4/17/2026

Manufacturer Info Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

2 - SPF 2.393"

Vert

4%

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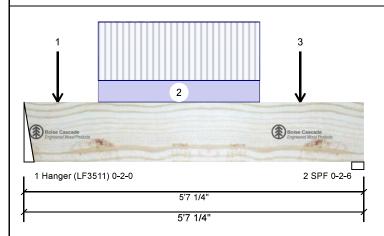
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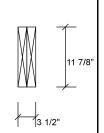
Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 31 0 SP сне 1 а. 7. 50 с о X с 1.1 . 875

Level: Ground Floor





Member Information Application: Floor (Residential) Type: Plies 2 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift) Brg Direction Live Dead Snow Wind 228 Vertical 520 0 1 0 2 Vertical 465 208 n 0

Analysis Results Analysis Actual Location Allowed Capacity Comb. Case Moment 1415 ft-lb 2'9 1/2" 35392 ft-lb 0.040 (4%) 1.25D+1.5L L Unbraced 1415 ft-lb 2'9 1/2" 35392 ft-lb 0.040 (4%) 1.25D+1.5L L 1.25D+1.5L L 1062 lb 1'1 7/8" 13217 lb 0.080 (8%) Shear Perm Defl in 0.002 2'9 1/2" 0.179 (L/360) 0.009 (1%) Uniform (L/40218) 0.004 2'9 1/2" 0.179 (L/360) 0.021 (2%) L LL Defl inch (L/17519) TL Defl inch 0.005 2'9 1/2" 0.268 (L/240) 0.020 (2%) D+L (L/12203)

Bearings and Factored Reactions Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 2.000" Vert 14% 285 / 780 1065 L 1.25D+1.5L Hanger 2 - SPF 2.393" Vert 19% 260 / 697 957 L 1.25D+1.5L



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Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top must be continuously laterally braced.
- 7 Bottom must have sheathing attached or be continuously braced.
- 8 Lateral slenderness ratio based on full section width

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Point	0-6-11		Far Face	77 l b	205 lb	0 lb	0 lb	J4	
2	Part. Uniform	1-2-11 to 3-10-11		Far Face	75 PLF	201 PLF	0 PLF	0 PLF		
3	Point	4-6-11		Far Face	92 l b	244 lb	0 lb	0 lb	J4	
	Self Weight				12 PLF					

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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 approvals Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding

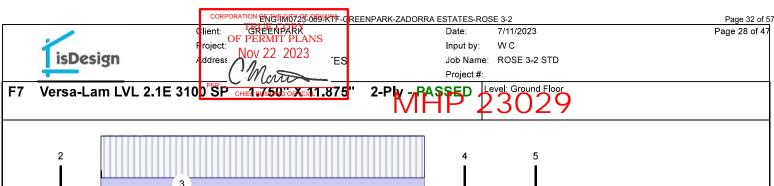
Manufacturer Info Boise Cascade Wood Products

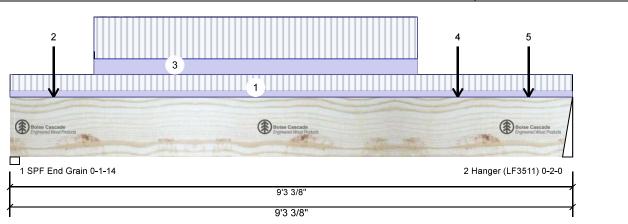
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Not Checked

11 7/8' Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 2 Design Method: LSD Vertical 1218 511 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertica 1220 512 n 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II

Analysis Results

General Load

Floor Live:

Dead:

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	5676 ft-lb	4'7 5/8"	35392 ft-lb	0.160 (16%)	1.25D+1.5L	L
Unbraced	5676 ft-lb	4'7 5/8"	35392 ft-lb	0.160 (16%)	1.25D+1.5L	L
Shear	2292 lb	8'1 1/2"	13217 l b	0.173 (17%)	1.25D+1.5L	L
Perm Defl in.	0.017 (L/6307)	4'7 5/8"	0.303 (L/360)	0.057 (6%)	D	Uniform
LL Defl inch	0.041 (L/2636)	4'7 5/8"	0.303 (L/360)	0.137 (14%)	L	L
TL Defl inch	0.059 (L/1859)	4'7 5/8"	0.454 (L/240)	0.129 (13%)	D+L	L

Vibration:

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Right Header: DF, Thickness: 3 1/2"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top loads must be supported equally by all plies.

40 PSF 15 PSF

- 7 Top must be continuously laterally braced.
- 8 Bottom must have sheathing attached or be continuously braced.
- 9 Lateral slenderness ratio based on full section width.

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	1.875"	Vert	36%	639 / 1828	2467	L	1.25D+1.5L

640 / 1829 2470 L 1.25D+1.5L 2.000" Vert Hanger



JULY 13, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 9-3-6	1-11-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-8-10		Far Face	82 lb	218 l b	0 l b	0 lb	J3
3	Part. Uniform	1-4-10 to 6-8-10		Far Face	74 PLF	198 PLF	0 PLF	0 PLF	
4	Point	7-4-10		Far Face	93 lb	247 lb	0 l b	0 lb	J3

Continued on page 2...

Notes

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 approvals Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding

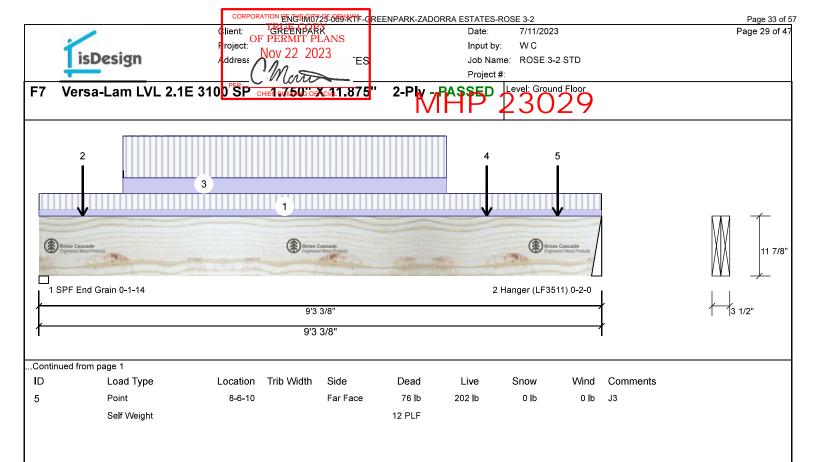
Manufacturer Info

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Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

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Manufacturer Info

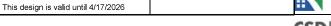
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Froject: Nov 22 2023
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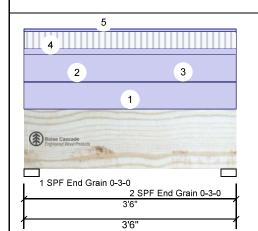
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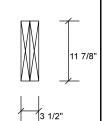
Job Name: ROSE 3-2 STD

Project #

FH2 Versa-Lam LVL 2.1E 3100 SR HEF 61.7/50FicX. 11.875

2-RIV PASSED Level: Ground Floor 23029





Application: Floor (Residential) Type: Plies: 2 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF Dead: 15 PSF

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	44	185	0	0
2	Vertical	44	185	0	0

Analysis Results

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	207 ft-lb	1'9"	24420 ft-lb	0.008 (1%)	1.25D+1.5L	L
Unbraced	207 ft-lb	1'9"	24420 ft-lb	0.008 (1%)	1.25D+1.5L	L
Shear	205 lb	2'3 1/8"	9120 lb	0.023 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/146763)	1'9"	0.104 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/621299)	1'9"	0.104 (L/360)	0.001 (0%)	L	L
TL Defl inch	0.000 (L/118719)	1'9"	0.156 (L/240)	0.002 (0%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. Re	act D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	4%	232 / 66	297	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	4%	232 / 66 ESSIONAL	297	L	1.25D+1.5L

Design Notes

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 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 must be continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.

7 Lateral slenderness ratio based on full section width.



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ID	Load Type	Location Trib Wi	dth Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-6-0	Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-6-0	Near Face	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 3-6-0	Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0	Near Face	9 PLF	25 PLF	0 PLF	0 PLF	

Continued on page 2...

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

Handling & Installation

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

Manufacturer Info

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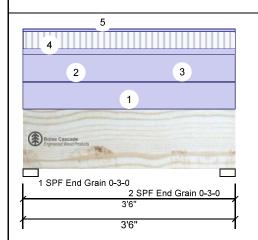
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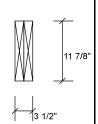
Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SRHEF 61.7/50 FIX. 11.875"

PASSED Level: Ground Floor





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	End	3-6-0			9 PLF	25 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 3-6-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	Self Weight				12 PLF				



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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400



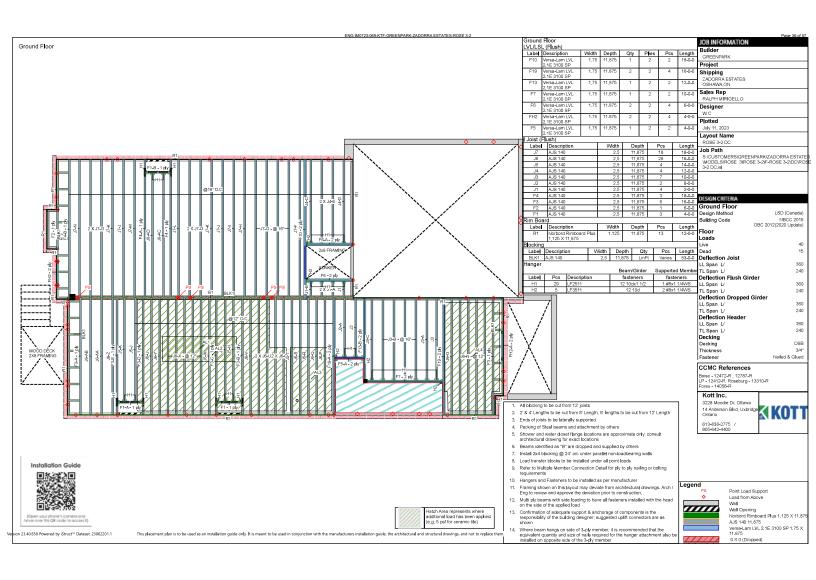
This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding





MHP 23029





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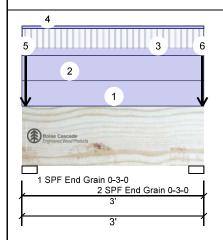
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Job Name: ROSE 3-2 DC

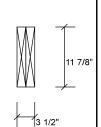
Project #

Versa-Lam LVL 2.1E 3100 SP-HEF 81 1.7/50FF XL 11.875





15 PSF



Туре:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015
Deflection LL:	360		OBC 2012(2020 Update)
Deflection TL:	240	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
General Load		Vibration:	Not Checked
Floor Live:	40 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	88	458	253	0
2	Vertical	88	458	253	0

Analysis Results

Dead:

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	156 ft-lb	1'6"	23005 ft-lb	0.007 (1%)	1.25D+1.5L	L
Unbraced	156 ft-lb	1'6"	23005 ft-lb	0.007 (1%)	1.25D+1.5L	L
Shear	177 lb	1'9 1/8"	8591 lb	0.021 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/230204)	1'6"	0.088 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/800767)	1'6"	0.088 (L/360)	0.000 (0%)	L+0.5S	L
TL Defl inch	0.000 (L/178802)	1'6"	0.131 (L/240)	0.001 (0%)	D+L+0.5S	L

Bearings and Factored Reactions

Bearing Len	gth Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF 3.00 End Grain	0" Vert	11%	572 / 384	956	L	1.25D+1.5L +S
2 - SPF 3.00 End Grain	0" Vert	11%	572 / 384	956	L	1.25D+1.5L +S

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
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- 5 Top must be continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.

7 Lateral slenderness ratio based on full section width.



JULY 13, 2023

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-0-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-0-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Near Face	12 PLF	31 PLF	0 PLF	0 PLF	
	End	3-0-0			12 PLF	31 PLF	0 PLF	0 PLF	

Continued on page 2...

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Dry service conditions, unless noted otherwise
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Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Boise Cascade Wood Products

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400



This design is valid until 4/17/2026



Kott Inc.

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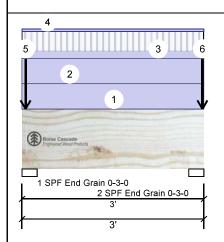
Date: 7/11/2023 Input by: WC

Job Name: ROSE 3-2 DC

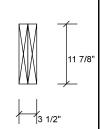
Project #

Versa-Lam LVL 2.1E 3100 SP-HEF 81.7/150-Fi X. 11.875'

PASSED Level: Ground Floor



Self Weight



Continued from p	page 1								
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Part. Uniform	0-0-0 to 3-0-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
5	Point	0-0-11		Тор	296 l b	41 lb	253 lb	0 l b	Header Column Header Column
	Bearing Length	0-3-8							
6	Point	2-11-11		Тор	296 lb	41 lb	253 lb	0 lb	Header Column Header Column
	Bearing Length	0-3-8							

12 PLF



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5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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(800) 232-0788 www.bc.com CCMC: 12472

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario



613-838-2775 / 905-642-4400

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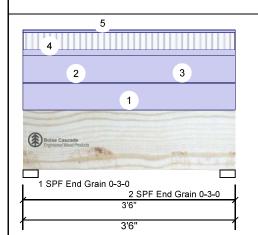
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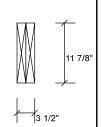
Job Name: ROSE 3-2 DC

Project #

Versa-Lam LVL 2.1E 3 100 SPHEF BILLINGUFFIX. 11.875

PASSED Level: Ground Floor





Member Information Application: Floor (Residential) Type: Plies: 2 Design Method: LSD Moisture Condition: Dry Building Code: **NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF Dead: 15 PSF

Analysis	Docuite
MIIALYSIS	results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	207 ft-lb	1'9"	24420 ft-lb	0.008 (1%)	1.25D+1.5L	L
Unbraced	207 ft-lb	1'9"	24420 ft-lb	0.008 (1%)	1.25D+1.5L	L
Shear	205 lb	1'2 7/8"	9120 lb	0.023 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/146763)	1'9"	0.104 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/621299)	1'9"	0.104 (L/360)	0.001 (0%)	L	L
TL Defl inch	0.000 (L/118719)	1'9"	0.156 (L/240)	0.002 (0%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 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 must be continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.
- 7 Lateral slenderness ratio based on full section width.

Unfa	actored R	Reactions UNPAT	TERNED l b	(Uplift)
Brg	Direction	Live	Dead	Sno

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	44	185	0	0
2	Vertical	44	185	0	0
I					

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	4%	232 / 66	297	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	4%	232 / 66	297	L	1.25D+1.5L



JULY 13, 2023

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-6-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-6-0		Near Face	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 3-6-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Near Face	9 PLF	25 PLF	0 PLF	0 PLF	
Continued on page 2									

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

Handling & Installation

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2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products 1111 W. Jefferson St.

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400







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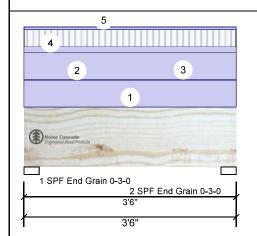
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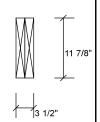
Job Name: ROSE 3-2 DC

Project #:

Versa-Lam LVL 2.1E 3 00 SPHEF 81-7/50FF XL 11.875

PASSED Level: Ground Floor





..Continued from page 1

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	End	3-6-0			9 PLF	25 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 3-6-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	Self Weight				12 PLF				



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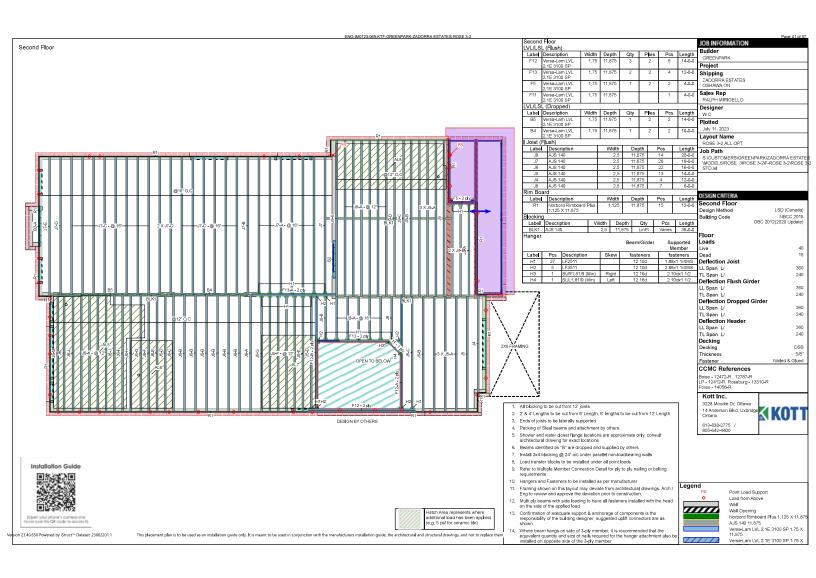
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MHP 23029





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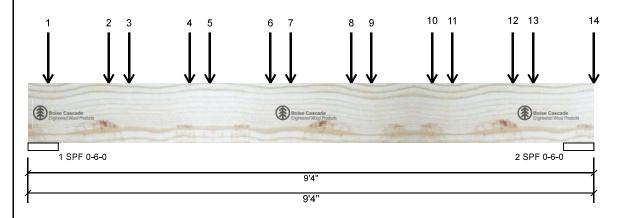
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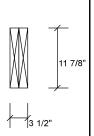
Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SP CHIEFRY 7.50 OF XCIA 11.875 **B4**

RASSED Level: Second Floor





Member Information

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

40 PSF 15 PSF

Application: Floor (Residential) Design Method:

Building Code: **NBCC 2015** OBC 2012(2020 Update)

Load Sharing: Not Checked Deck:

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	2470	985	0	0
2	Vertical	2687	1064	0	0

Bearings and Factored Reactions

L								
I	Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
l	1 - SPF	6.000"	Vert	38%	1231 / 3705	4936	L	1.25D+1.5L
1	2 - SPF	6.000"	Vert	41%	1330 / 4031	5360	L	1.25D+1.5L

Analysis Results

Floor Live:

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	10855 ft-lb	4'4"	35392 ft-lb	0.307 (31%)	1.25D+1.5L	L
Unbraced	10855 ft-lb	4'4"	35392 ft-lb	0.307 (31%)	1.25D+1.5L	L
Shear	4538 lb	1'5 7/8"	13217 lb	0.343 (34%)	1.25D+1.5L	L
Perm Defl in	0.028 (L/3681)	4'7 15/16"	0.282 (L/360)	0.098 (10%)	D	Uniform
LL Defl inch	0.070 (L/1453)	4'7 15/16"	0.282 (L/360)	0.248 (25%)	L	L
TL Defl inch	0.097 (L/1042)	4'7 15/16"	0.423 (L/240)	0.230 (23%)	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 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 3 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be continuously laterally braced.
- 8 Bottom must be laterally braced at bearings.
- 9 Lateral slenderness ratio based on full section width.



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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 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

Boise. ID 83702

www.bc.com CCMC: 12472

Manufacturer Info

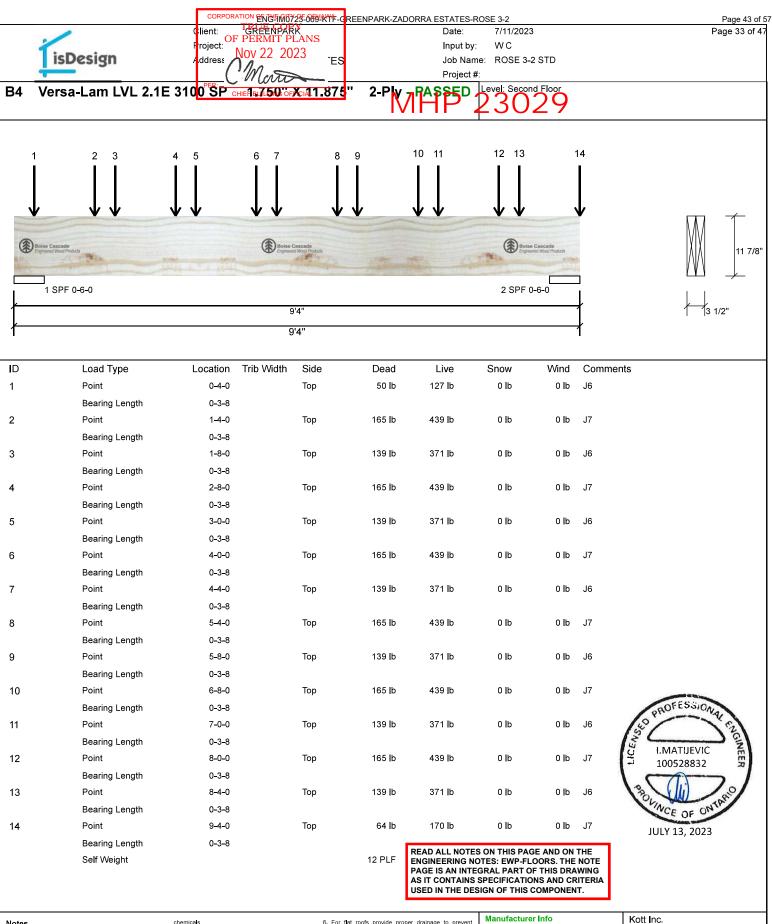
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Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400







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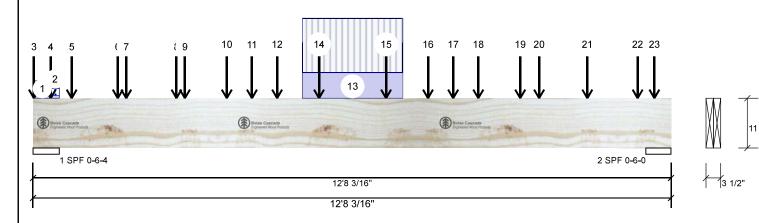
7/11/2023 Date: W C Input by:

Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SP CHEFR 7.50 OF XCA 11.875

Level: Second Floor SED



Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Floor (Residential) Type: Plies: 2 Design Method: LSD Vertical 3681 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 3642 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb 1 - SPF 6.270" Vert 56% 2079 / 5539 2 - SPF 6.000" Vert 1959 / 5464

Brg	Direction	Live	Dead	Snow
1	Vertical	3681	1663	18

1567

Analysis Results

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	21434 ft-lb	6'4 1/16"	35392 ft-lb	0.606 (61%)	1.25D+1.5L +S	L
Unbraced	21434 ft-lb	6'4 1/16"	35392 ft-lb	0.606 (61%)	1.25D+1.5L +S	L
Shear	6610 lb	11'2 5/16"	13217 l b	0.500 (50%)	1.25D+1.5L +S	L
Perm Defl in.	0.113 (L/1253)	6'4 1/8"	0.393 (L/360)	0.287 (29%)	D	Uniform
LL Defl inch	0.259 (L/546)	6'4 1/4"	0.393 (L/360)	0.659 (66%)	L+0.5S	L
TL Defl inch	0.372 (L/381)	6'4 3/16"	0.589 (L/240)	0.631 (63%)	D+L+0.5S	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 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 3 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
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- 9 Lateral slenderness ratio based on full section width.



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Wind

Ld. Comb.

1.25D+1.5L +S

1 25D+1 5L

+S

0

Total Ld. Case

7618 L

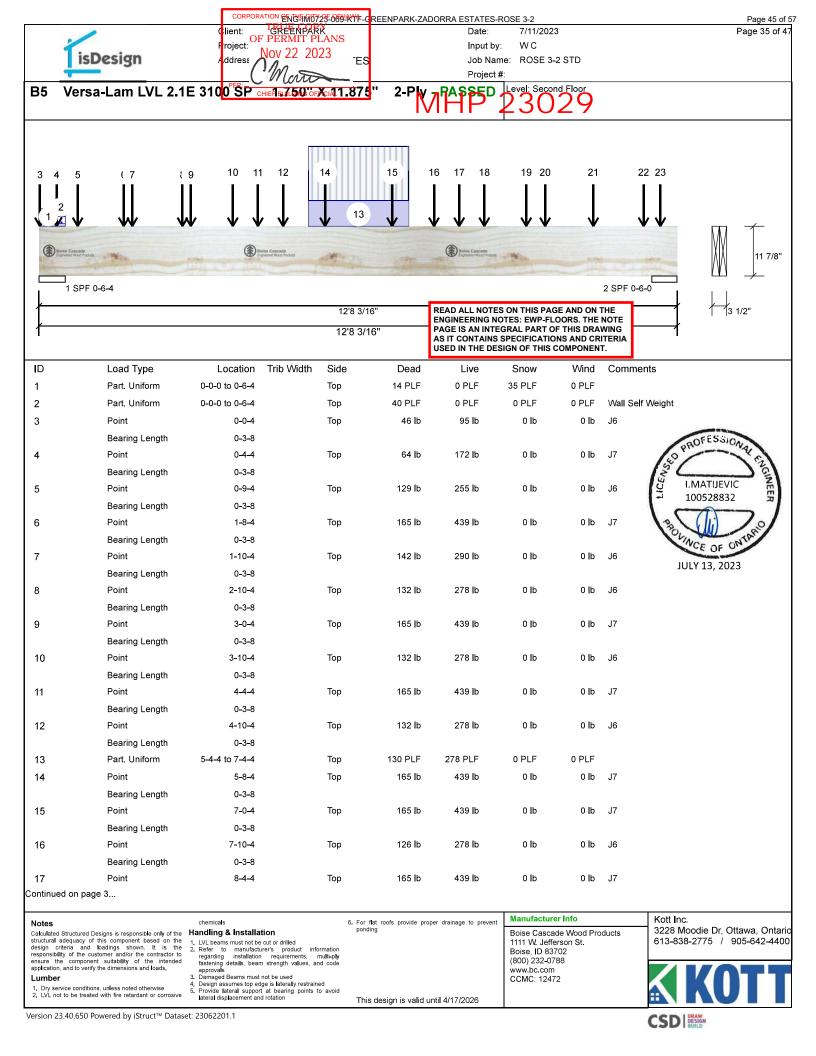
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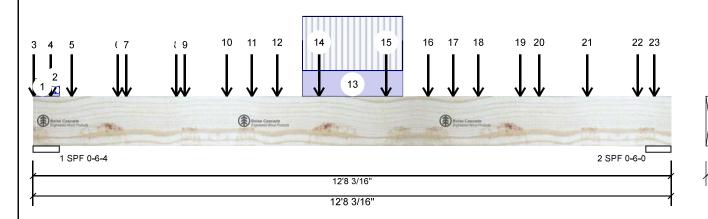
Input by: WC

Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 310<mark>0 SP CHEFR 7.50 GFX A11.875</mark>" **B5**

RASSED Level: Second Floor



om nage 2								
	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
• •								
			Тор	138 lb	307 lb	0 lb	0 lb	J6
Point	9-8-4		Тор	165 lb	439 lb	0 lb	0 l b	J7
Bearing Length	0-3-8		·					
Point	10-0-12		Тор	141 lb	302 lb	0 lb	0 l b	J6
Bearing Length	0-3-8							
Point	11-0-4		Тор	277 b	711 b	0 lb	0 l b	J7 J6
Bearing Length	0-3-8							
Point	12-0-4		Тор	114 lb	278 lb	0 lb	0 l b	J6
Bearing Length	0-3-8							
Point	12-4-4		Тор	64 lb	172 l b	0 lb	0 l b	J7
Bearing Length	0-3-8							
Self Weight				12 PLF				
	Bearing Length Point	Load Type Bearing Length Point D-3-8	Load Type Bearing Length Point D-3-8 Point D-0-12 Bearing Length Point D-3-8	Load Type Location Trib Width Side Bearing Length 0-3-8 Top Point 8-10-4 Top Bearing Length 0-3-8 Top	Load Type Location Trib Width Side Dead Bearing Length 0-3-8 Top 138 lb Point 8-10-4 Top 165 lb Bearing Length 0-3-8 Top 165 lb Bearing Length 0-3-8 Top 141 lb Bearing Length 0-3-8 Top 277 lb Bearing Length 0-3-8 Top 114 lb Bearing Length 0-3-8 Top 141 lb Bearing Length 0-3-8 Top 64 lb Point 12-4-4 Top 64 lb Bearing Length 0-3-8 Top 64 lb	Load Type Location Trib Width Side Dead Live Bearing Length 0-3-8 Top 138 lb 307 lb Bearing Length 0-3-8 Top 165 lb 439 lb Bearing Length 0-3-8 Top 141 lb 302 lb Bearing Length 0-3-8 Top 277 lb 711 lb Bearing Length 0-3-8 Top 114 lb 278 lb Bearing Length 0-3-8 Top 64 lb 172 lb Bearing Length 0-3-8 Top 64 lb 172 lb Bearing Length 0-3-8 Top 64 lb 172 lb	Load Type Location Trib Width Side Dead Live Snow Bearing Length 0-3-8 Top 138 lb 307 lb 0 lb Bearing Length 0-3-8 Top 165 lb 439 lb 0 lb Bearing Length 0-3-8 Top 141 lb 302 lb 0 lb Bearing Length 0-3-8 Top 277 lb 711 lb 0 lb Bearing Length 0-3-8 Top 114 lb 278 lb 0 lb Bearing Length 0-3-8 Top 114 lb 278 lb 0 lb Bearing Length 0-3-8 Top 14 lb 278 lb 0 lb Bearing Length 0-3-8 Top 14 lb 278 lb 0 lb Bearing Length 0-3-8 Top 14 lb 172 lb 0 lb Bearing Length 0-3-8 Top 14 lb 172 lb 0 lb Bearing Length 0-3-8 Top 14 lb 172 lb 0 lb	Load Type Location Trib Width Side Dead Live Snow Wind Bearing Length 0-3-8 Top 138 lb 307 lb 0 lb 0 lb 0 lb Bearing Length 0-3-8 Top 165 lb 439 lb 0 lb 0 lb 0 lb Bearing Length 0-3-8 Top 141 lb 302 lb 0 lb 0 lb 0 lb Bearing Length 0-3-8 Top 277 lb 711 lb 0 lb 0 lb 0 lb Bearing Length 0-3-8 Top 114 lb 278 lb 0 lb 0 lb 0 lb Bearing Length 0-3-8 Top 64 lb 172 lb 0 lb 0 lb 0 lb Bearing Length 0-3-8 Top 64 lb 172 lb 0 lb 0 lb 0 lb Bearing Length 0-3-8 Top 64 lb 172 lb 0 lb 0 lb 0 lb Bearing Length 0-3-8 Top 64 lb 172 lb 0 lb <td< td=""></td<>



JULY 13, 2023

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Notes

Notice 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

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400







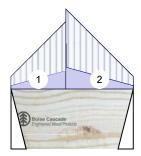
lient: GREENPARK OF PERMIT PLANS

7/11/2023 Input by: WC

Job Name: ROSE 3-2 STD

Project #

Level: Second Floor F11 Versa-Lam LVL 2.1E 3100 S PULDIN 40-77-50" X 11.875 SED



1 Hanger (SUR/L1.81/9 (Min)) 0-3-0 2 Hanger (SUR/L1.81/9 (Min)) 0-3-0

2' 3/16" 2' 3/16"

Snow

0

n

Wind

0

0

Member Information Туре

Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

Floor Live: 40 PSF Dead: 15 PSF

Application: Floor (Residential)

Design Method:	LSD
Building Code:	NBCC 2015

OBC 2012(2020 Update)

Load Sharing:

Not Checked Deck: Vibration: Not Checked

Bearings and Factored Reactions

Brg

1

2

Direction

Vertical

Vertica

Unfactored Reactions UNPATTERNED lb (Uplift)

Live

14

14

Bearing	Length	Dir.	Cap. Rea	ct D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	1%	14 / 22	36	L	1.25D+1.5L
2 - Hanger	3.000"	Vert	1%	14 / 22	36	L	1.25D+1.5L

Dead

11

11

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	15 ft-lb	1' 1/16"	17696 ft-lb	0.001 (0%)	1.25D+1.5L	L
Unbraced	15 ft-lb	1' 1/16"	17696 ft-lb	0.001 (0%)	1.25D+1.5L	L
Shear	6 l b	9 5/16"	6608 lb	0.001 (0%)	0.9D+1.5L	L
Perm Defl in	0.000 (L/3063274)	1' 1/16"	0.055 (L/360)	0.000 (0%)	D	Uniform
LL Defl inch	0.000 (L/2115102)	1' 1/16"	0.055 (L/360)	0.000 (0%)	L	L
TL Defl inch	0.000 (L/1251191)	1' 1/16"	0.082 (L/240)	0.000 (0%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Right Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at bearings.



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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-10-14	0-1-4 to 0-6-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-10-14 to 2-0-3	0-7-15 to	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Self Weight 6 PLF

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

Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





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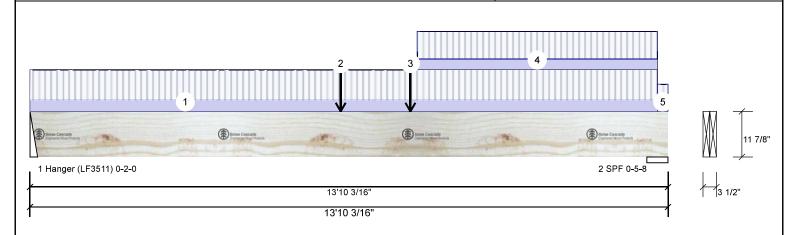
Date: 7/11/2023 Input by: W C

Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SR-HEF EUL/1500FFXA11.875"

Level: Second Floor SED



Member Info	rmation			Unfa	actored Rea	actions UNF	ATTERNED I	b (Uplif	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	;	Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	403	260		0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2015	2	Vertical	600	352		0	0
Deflection LL:	360		OBC 2012(2020 Update)							
Deflection TL:	240	Load Sharing:	No							
Importance:	Normal - II	Deck:	Not Checked							
General Load		Vibration:	Not Checked							
Floor Live:	40 PSF			Bear	ings and F	actored Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir. Cap	. React D/L l b	Total I	Ld. Case	Ld. Comb.
				1 -	2.000"	Vert 12%	325 / 605	930 I	L	1.25D+1.5L
				_ Har	nger					
Analysis Resu	ts			2 - 3	SPF 5.500"	Vert 11%	440 / 899	1339 I	L	1.25D+1.5L
					•					•

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5293 ft-lb	8'3 1/16"	35392 ft-lb	0.150 (15%)	1.25D+1.5L	L
Unbraced	5293 ft-lb	8'3 1/16"	35392 ft-lb	0.150 (15%)	1.25D+1.5L	L
Shear	1206 lb	12'4 13/16"	13217 l b	0.091 (9%)	1.25D+1.5L	L
Perm Defl in.	0.038 (L/4181)	7' 3/4"	0.445 (L/360)	0.086 (9%)	D	Uniform
LL Defl inch	0.065 (L/2475)	7'1 7/16"	0.445 (L/360)	0.145 (15%)	L	L
TL Defl inch	0.103 (L/1555)	7'1 3/16"	0.667 (L/240)	0.154 (15%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be continuously laterally braced.
- 8 Bottom must be laterally braced at a maximum of 6'6 1/2" o.c.
- 9 Lateral slenderness ratio based on full section width.



JULY 13, 2023

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 13-7-7	0-7-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	6-8-15		Far Face	11 l b	14 l b	0 lb	0 lb	F11
3	Point	8-3-1		Far Face	258 l b	510 l b	0 lb	0 l b	F13
4	Tie-In	8-4-13 to 13-7-7	0-7-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 2...

Notes

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. 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 4/17/2026

Manufacturer Info

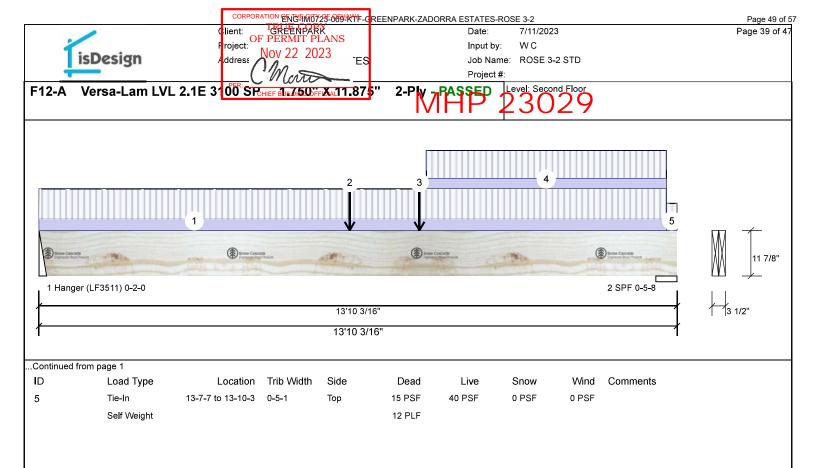
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Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400



CSD DESIGN





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Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

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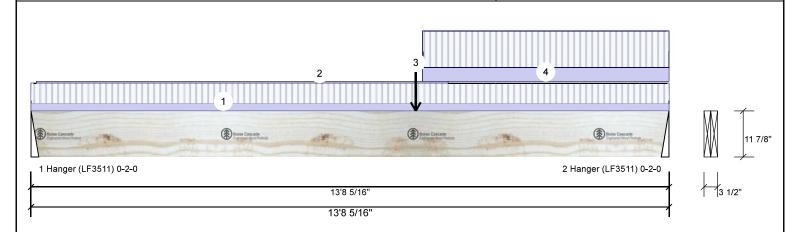
roject: Nov 22 2023 isDesign

Input by: Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SP. HIEF 61 .. 7.50 FF .. X .. 11.875





Member Inforr	nation			Unfa	ctored Rea	ctions	s UNPA	ATTERNED I	b (Upli	ift)
Type:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead		Sno
Plies:	2	Design Method:	LSD	1	Vertical		374	252		
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical		589	343		
Deflection LL:	360		OBC 2012(2020 Update)							
Deflection TL:	240	Load Sharing:	No							
Importance:	Normal - II	Deck:	Not Checked							
General Load		Vibration:	Not Checked							
Floor Live:	40 PSF			Bear	ings and Fa	actore	d Read	ctions		
Dead:	15 PSF			Bea	ring Length	Dir.	Cap.	React D/L Ib	Total	Ld.
				1 - Han	2.000" ger	Vert	11%	315 / 561	876	L
Analysis Result	s			2 -	2.000"	Vert	17%	429 / 884	1312	L
Analysis Ac	tual Loca	ation Allowed Canac	ity Comb Case	│ Han	ger					

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5763 ft-lb	8'3 1/16"	35392 ft-lb	0.163 (16%)	1.25D+1.5L	L
Unbraced	5763 ft-lb	8'3 1/16"	35392 ft-lb	0.163 (16%)	1.25D+1.5L	L
Shear	1230 lb	12'6 7/16"	13217 l b	0.093 (9%)	1.25D+1.5L	L
Perm Defl in.	0.040 (L/4003)	7'2"	0.449 (L/360)	0.090 (9%)	D	Uniform
LL Defl inch	0.070 (L/2326)	7'3"	0.449 (L/360)	0.155 (15%)	L	L
TL Defl inch	0.110 (L/1471)	7'2 5/8"	0.674 (L/240)	0.163 (16%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Right Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Multiple plies must be fastened together as per manufacturer's details.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be continuously laterally braced.
- 9 Bottom must be laterally braced at a maximum of 8'3 1/16" o.c.
- 10 Lateral slenderness ratio based on full section width.

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JULY 13, 2023

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 13-8-5	0-3-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-1-6 to 8-11-6		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
3	Point	8-3-1		Near Face	316 lb	674 l b	0 l b	0 l b	F13

Continued on page 2...

Notes

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

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400

Wind

Ld. Comb. 1.25D+1.5L

1.25D+1.5L

0

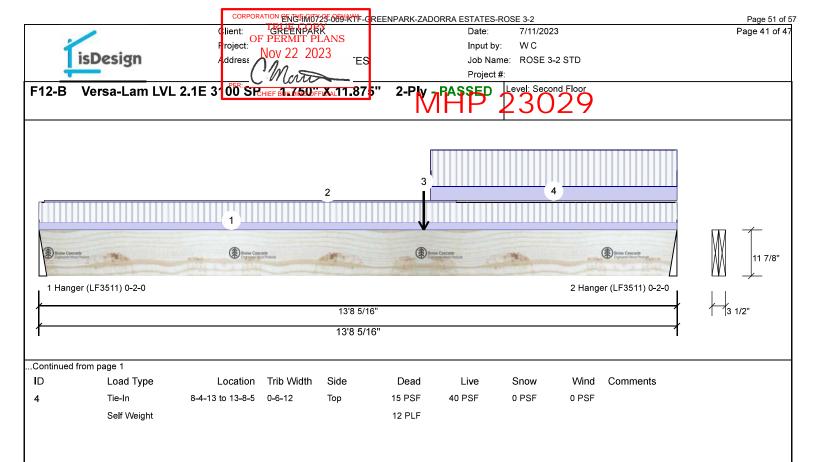
0

Snow 0

Total Ld. Case

0







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Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. 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 4/17/2026

Manufacturer Info

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www.bc.com CCMC: 12472

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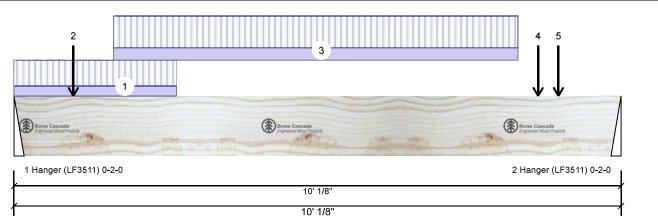


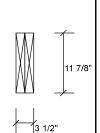
Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SPCHEF 1 1 7 50 FF 1 1 1 1 1 8 7 5







Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Member Information

Application: Floor (Residential) Type: Plies: Design Method: LSD Moisture Condition: Dry Building Code: **NBCC 2015** Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF

OBC 2012(2020 Update)

Unfactored Reactions UNPATTERNED lb (Uplift)

Bearings and Factored Reactions

Dir.

Vert

Vert

Bearing Length

2.000"

2.000"

1 -

2 -

Hanger

Hanger

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	674	316	0	0
2	Vertical	510	258	0	0

Cap. React D/L lb

394 / 1011

322 / 766

18%

14%

Total Ld. Case

1406 L

1088 L

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2903 ft-lb	4'9 3/16"	35392 ft-lb	0.082 (8%)	1.25D+1.5L	L
Unbraced	2903 ft-lb	4'9 3/16"	35392 ft-lb	0.082 (8%)	1.25D+1.5L	L
Shear	1211 lb	1'1 7/8"	13217 l b	0.092 (9%)	1.25D+1.5L	L
Perm Defl in.	0.012 (L/10169)	4'11 1/2"	0.327 (L/360)	0.035 (4%)	D	Uniform
LL Defl inch	0.024 (L/4919)	4'11 1/4"	0.327 (L/360)	0.073 (7%)	L	L
TL Defl inch	0.035 (L/3315)	4'11 5/16"	0.490 (L/240)	0.072 (7%)	D+L	L

Design Notes

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Right Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Multiple plies must be fastened together as per manufacturer's details.
- 7 Top loads must be supported equally by all plies.

15 PSF

- 8 Top must be continuously laterally braced.
- 9 Bottom must have sheathing attached or be continuously braced.
- 10 Lateral slenderness ratio based on full section width.



JULY 13, 2023

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Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

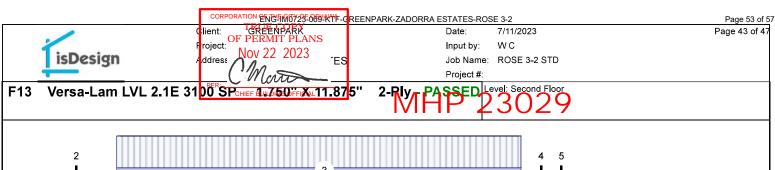
Manufacturer Info

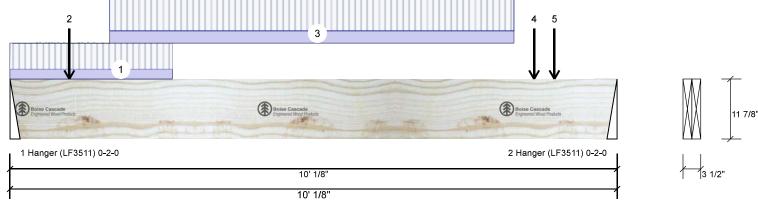
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3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400









ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 2-8-2		Тор	32 PLF	84 PLF	0 PLF	0 PLF	
2	Point	0-11-12		Far Face	49 lb	130 lb	0 lb	0 lb	J8
3	Part. Uniform	1-7-12 to 8-3-12		Far Face	39 PLF	103 PLF	0 PLF	0 PLF	
4	Point	8-7-12		Near Face	11 l b	14 l b	0 lb	0 lb	F11
5	Point	8-11-12		Far Face	49 lb	129 l b	0 lb	0 lb	J8
	Self Weight				12 PLF				



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Dry service conditions, unless noted otherwise
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Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. 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 4/17/2026

Manufacturer Info

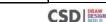
Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

(800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400







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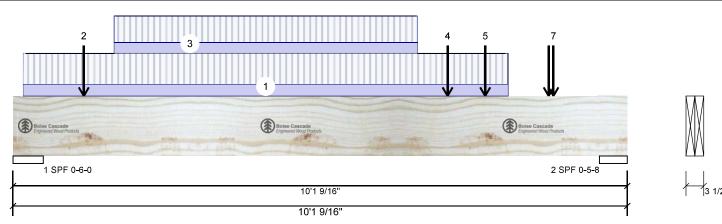
Input by: W C

Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SR-HEF EUL/1500FFXA11.875"





Member Inforn	nation		Unfactored Reactions UNPATTERNED lb (Uplift)							
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	2928	1229		0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	2778	1231		0	0
Deflection LL:	360		OBC 2012(2020 Update)							
Deflection TL:	240	Load Sharing:	No							
Importance:	Normal - II	Deck:	Not Checked							
General Load		Vibration:	Not Checked							
Floor Live:	40 PSF			Bear	ings and Fa	actored Rea	ctions			
Dead:	15 PSF			Bea	ring Length	Dir. Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
				1 - 8	SPF 6.000"	Vert 46%	1536 / 4392	5928	L	1.25D+1.5L
				2 - 9	SPF 5.500"	Vert 48%	1539 / 4167	5706	L	1.25D+1.5L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	13831 ft-lb	5'2 3/8"	35392 ft-lb	0.391 (39%)	1.25D+1.5L	L
Unbraced	13831 ft-lb	5'2 3/8"	35392 ft-lb	0.391 (39%)	1.25D+1.5L	L
Shear	6337 l b	8'8 3/16"	13217 l b	0.479 (48%)	1.25D+1.5L	L
Perm Defl in.	0.045 (L/2463)	5'1 9/16"	0.310 (L/360)	0.146 (15%)	D	Uniform
LL Defl inch	0.105 (L/1058)	5'1 5/16"	0.310 (L/360)	0.340 (34%)	L	L
TL Defl inch	0.151 (L/740)	5'1 7/16"	0.465 (L/240)	0.324 (32%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 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 must be continuously laterally braced.
- 5 Bottom must have sheathing attached or be continuously braced.
- 6 Lateral slenderness ratio based on full section width.



JULY 13, 2023

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ID	Load Type	Location Trib	Width Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-2-0 to 8-2-0	Far Face	123 PLF	327 PLF	0 PLF	0 PLF	
2	Point	1-2-0	Near Face	127 l b	322 lb	0 l b	0 l b	J5
3	Part. Uniform	1-8-0 to 6-8-0	Near Face	115 PLF	276 PLF	0 PLF	0 PLF	
4	Point	7-2-0	Near Face	95 lb	222 l b	0 l b	0 lb	J5
5	Point	7-9-7	Near Face	343 lb	589 lb	0 l b	0 lb	F12
6	Point	8-10-0	Far Face	168 l b	449 lb	0 l b	0 lb	J7

Continued on page 2...

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

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

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400

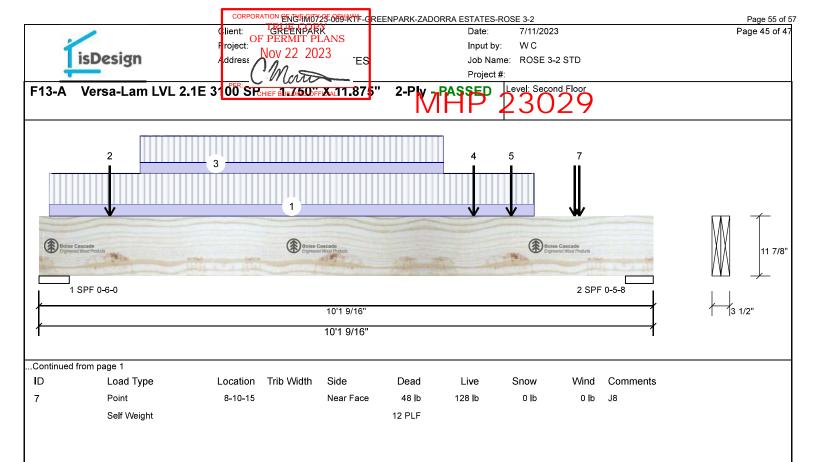
11 7/8'



This design is valid until 4/17/2026



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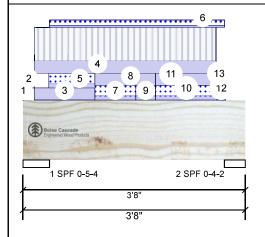
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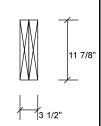
Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 310 SP CHIET - 71.50 SO X CA 1.875

Level: Second Floor





Member Information

Туре:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015
Deflection LL:	360		OBC 2012(2020 Update)
Deflection TL:	240	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
General Load		Vibration:	Not Checked
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	376	374	152	0
2 Vertical		293	307	153	0

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	798 ft-lb	1'10 1/2"	35392 ft-lb	0.023 (2%)	1.25D+1.5L +S	L
Unbraced	798 ft-lb	1'10 1/2"	35392 ft-lb	0.023 (2%)	1.25D+1.5L +S	L
Shear	773 lb	2'4"	13217 lb	0.059 (6%)	1.25D+1.5L +S	L
Perm Defl in.	0.000 (L/80119)	1'10 1/2"	0.100 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch	0.001 (L/63026)	1'10 1/2"	0.100 (L/360)	0.006 (1%)	L+0.5S	L
TL Defl inch	0.001 (L/35276)	1'10 1/2"	0.150 (L/240)	0.007 (1%)	D+L+0.5S	L

Bearings and Factored Reactions

Jean95	carrigo ana ractorea ricactiono										
Bearing	Length	Dir.	Cap. Re	act D/L I b	Total	Ld. Case	Ld. Comb.				
1 - SPF	5.250"	Vert	10%	467 / 717	1184	L	1.25D+1.5L +S				
2 - SPF	4.125"	Vert	11%	383 / 592	975	L	1.25D+1.5L +S				

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 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 must be continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.
- 7 Lateral slenderness ratio based on full section width.



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Handling & Installation

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2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used

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Provide lateral support at bearing points to avoid
lateral displacement and rotation

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Manufacturer Info Boise Cascade Wood Products

1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

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3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





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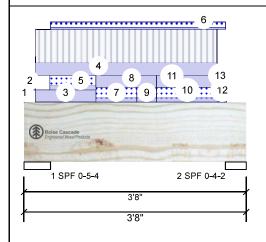
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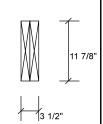
Job Name: ROSE 3-2 STD

Project #

Versa-Lam LVL 2.1E 310 0 SP снето 7.506 о X с/1.1.875

Level: Second Floor SSED





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 0-0-3		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 0-2-4		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-2-4 to 1-2-4		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-2-4 to 3-2-4		Near Face	84 PLF	223 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-5-2 to 1-2-4		Тор	27 PLF	0 PLF	70 PLF	0 PLF	
6	Part. Uniform	0-5-4 to 3-3-14		Тор	13 PLF	0 PLF	35 PLF	0 PLF	
7	Part. Uniform	1-2-4 to 1-10-5		Тор	27 PLF	0 PLF	70 PLF	0 PLF	
8	Part. Uniform	1-2-4 to 2-2-4		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Part. Uniform	1-10-5 to 2-2-4		Тор	27 PLF	0 PLF	70 PLF	0 PLF	
10	Part. Uniform	2-2-4 to 3-2-6		Тор	27 PLF	0 PLF	70 PLF	0 PLF	
11	Part. Uniform	2-2-4 to 3-2-6		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
12	Part. Uniform	3-2-6 to 3-4-1		Тор	27 PLF	0 PLF	70 PLF	0 PLF	
13	Part. Uniform	3-2-6 to 3-4-1		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	Self Weight				12 PLF				



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