

ZADORFA ESTATESON OF THE CITY OF OSHAWA

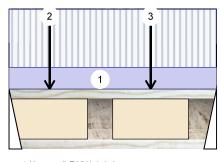
ZADORRA ESTATES COPY OSHAV<mark>VA,ONOF PERMIT PLANS</mark> Date: 6/29/2023 WC Input by:

AJS 140

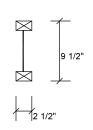
9.500" - PASSED

Address:





1 Hanger (LF259) 0-2-0 2 Hanger (LF259) 0-2-0 2'8 7/8' 2'8 7/8'



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	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 lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	288	108	0	0
2	Vertical	246	92	0	0

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	352 ft-lb	1'10 7/16"	4095 ft-lb	0.086 (9%)	1.25D+1.5L	L
Unbraced	352 ft-lb	1'10 7/16"	4095 ft-lb	0.086 (9%)	1.25D+1.5L	L
Shear	563 lb	1 1/4"	1830 l b	0.307 (31%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/19004)	1'8 15/16"	0.084 (L/360)	0.019 (2%)	D	Uniform
LL Defl inch	0.004 (L/7153)	1'8 15/16"	0.084 (L/360)	0.050 (5%)	L	L
TL Defl inch	0.006 (L/5197)	1'8 15/16"	0.126 (L/240)	0.046 (5%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	36%	135 / 433	568	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	30%	116 / 368	484	L	1.25D+1.5L

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: SPF, Thickness: 2 1/2"
- 4 Right Header: SPF, Thickness: 2 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 7 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.



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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-8-14	0-7-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-6-7		Far Face	81 b	216 b	0 lb	0 l b	J5
3	Point	1-10-7		Far Face	95 lb	252 lb	0 l b	0 l b	J5

Notes

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

- Handling & Installation

 1. Loist flanges must not be cut or drilled

 2. Refer to latest copy of the Loist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-thy fastening details and handling/erection details

 3. Damaged Loists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

 The:--

Manufacturer Info

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

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Address:

ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY

6/29/2023 Date: W C Input by:

Job Name: Froject

Versa-Lam LVL 2.1E 3100 SP

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> 1.750" X

PASSED Level: Ground Floor

1 Boise Cascade 1 SPF 0-2-6 2 SPF 0-6-0 12'4 3/4'

12'4 3/4'

Member Information

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

Normal - II 40 PSF

15 PSF

Application: Floor (Residential) Design Method: LSD

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

Load Sharing: Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	98	94	0	0
2	Vertical	103	99	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	5%	118 / 147	265	L	1.25D+1.5L
2 - SPF	6.031"	Vert	2%	124 / 155	278	L	1.25D+1.5L

Analysis Results

Floor Live:

Dead:

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	766 ft-lb	6' 9/16"	23220 ft-lb	0.033 (3%)	1.25D+1.5L	L
Unbraced	766 ft-lb	6' 9/16"	23220 ft-lb	0.033 (3%)	1.25D+1.5L	L
Shear	231 lb	11 7/8"	10574 lb	0.022 (2%)	1.25D+1.5L	L
Perm Defl in	0.013 (L/10826)	6' 9/16"	0.394 (L/360)	0.033 (3%)	D	Uniform
LL Defl inch	0.014 (L/10363)	6' 9/16"	0.394 (L/360)	0.035 (3%)	L	L
TL Defl inch	0.027 (L/5295)	6' 9/16"	0.591 (L/240)	0.045 (5%)	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 be laterally braced at bearings.
- 7 Lateral slenderness ratio based on full section width.



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ID Load Type Trib Width Location Side Dead Live Snow Wind Comments 1 Tie-In 0-0-0 to 12-4-12 0-4-14 Top 15 PSF 40 PSF 0 PSF 0 PSF Self Weight 9 PLF

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. 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

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

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

Manufacturer Info Kott Inc.

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



Brg

Direction



Client: **GREENPARK** Project:

ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY Address: OSHAV<mark>VA,ONOF PERMIT PLANS</mark>

WC Input by:

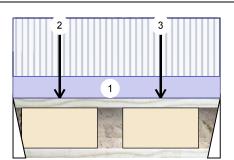
Date:

6/29/2023

AJS 140

9.500" - PASSED





1 Hanger (LF259) 0-2-0 2 Hanger (LF259) 0-2-0 2'8 13/16" 2'8 13/16'

Wind

Snow

Member Information

Туре:	Girder	Application:	Floor (Residential)		
Plies:	1	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 lb (Uplift) Live

1	Vertical	242	91	0	0
2	Vertical	224	84	0	0

Dead

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	286 ft-lb	1'11 3/8"	4095 ft-lb	0.070 (7%)	1.25D+1.5L	L
Unbraced	286 ft-lb	1'11 3/8"	4095 ft-lb	0.070 (7%)	1.25D+1.5L	L
Shear	472 lb	1 1/4"	1830 l b	0.258 (26%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/22728)	1'6 11/16"	0.084 (L/360)	0.016 (2%)	D	Uniform
LL Defl inch	0.004 (L/8523)	1'6 11/16"	0.084 (L/360)	0.042 (4%)	L	L
TL Defl inch	0.005 (L/6199)	1'6 11/16"	0.126 (L/240)	0.039 (4%)	D+L	L

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	286 ft-lb	1'11 3/8"	4095 ft-lb	0.070 (7%)	1.25D+1.5L	L
Unbraced	286 ft-lb	1'11 3/8"	4095 ft-lb	0.070 (7%)	1.25D+1.5L	L
Shear	472 lb	1 1/4"	1830 l b	0.258 (26%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/22728)	1'6 11/16"	0.084 (L/360)	0.016 (2%)	D	Uniform
LL Defl inch	0.004 (L/8523)	1'6 11/16"	0.084 (L/360)	0.042 (4%)	L	L
TL Defl inch	0.005 (L/6199)	1'6 11/16"	0.126 (L/240)	0.039 (4%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. I	React D/L I b	Total	Ld. Case	Ld. Comb.
1 -	2.000"	Vert	30%	114 / 363	477	L	1.25D+1.5L
Hanger							
2 -	2.000"	Vert	28%	105 / 335	440	L	1.25D+1.5L
Hanger							



- 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: SPF, Thickness: 2 1/2"
- 4 Right Header: SPF, Thickness: 2 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 7 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-8-13	0-7-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-7-6		Far Face	72 b	192 b	0 l b	0 l b	J4
3	Point	1-11-6		Far Face	78 l b	208 l b	0 lb	0 lb	J4

Notes

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

- Handling & Installation

 1. Joist flanges must not be cut or drilled

 2. Refer to latest copy of the Libist product information details for framing details, stiffener tables, web hole charb, bridging details, multi-byt fastening details and handling/erection details

 3. Damaged bloists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Page 4 of 30



Client: **GREENPARK** Project:

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Date: 6/29/2023 Input by:

W C Job Name:

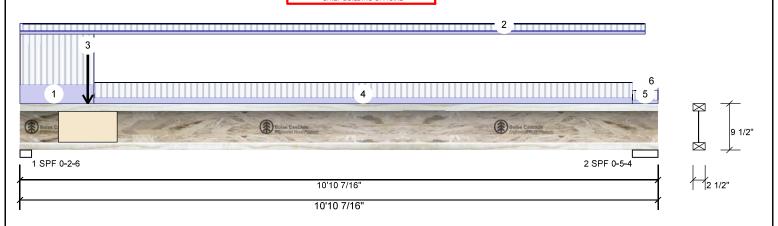
F2 **AJS 140**

9.500" - PASSED

Address:



Level: Ground Floor



Member Inforn	nation			Unf	actored Rea	actions UN	PATTERNED I	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	393	147	0	0
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical	170	64	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			Bea	rings and F	actored Re	actions		
Dead:	15 PSF			Bea	aring Length	Dir. Caj	. React D/L l b	Total Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert 47	% 184 / 590	774 L	1.25D+1.5L
				2 -	SPF 5.250"	Vert 18	% 80 / 254	334 L	1.25D+1.5L

Analysis Results

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	978 ft-lb	4'4 3/4"	4095 ft-lb	0.239 (24%)	1.25D+1.5L	L
Unbraced	978 ft-lb	4'4 3/4"	4095 ft-lb	0.239 (24%)	1.25D+1.5L	L
Shear	756 lb	1 5/8"	1830 lb	0.413 (41%)	1.25D+1.5L	L
Perm Defl in.	0.024 (L/5247)	5' 3/8"	0.345 (L/360)	0.069 (7%)	D	Uniform
LL Defl inch	0.063 (L/1968)	5' 3/8"	0.345 (L/360)	0.183 (18%)	L	L
TL Defl inch	0.087 (L/1431)	5' 3/8"	0.518 (L/240)	0.168 (17%)	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 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 9'8 9/16" o.c.



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I	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
I	1	Tie-In	0-0-0 to 1-3-2	1-5-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Tie-In	0-0-0 to 10-7-13	0-2-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	3	Point	1-1-14		Far Face	84 l b	224 lb	0 lb	0 l b	F1
	4	Tie-In	1-3-2 to 10-5-3	0-5-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
I	5	Tie-In	10-5-3 to 10-10-7	0-3-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	6	Tie-In	10-7-13 to 10-10-7	0-2-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 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: 12787

Kott Inc.







ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY Address: OSHAWA,ONOF PERMIT PLANS

Input by:

Date:

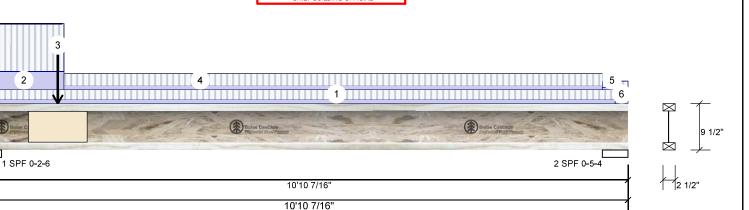
W C Job Name: _evel: Ground Floor

6/29/2023

AJS 140 F2-A

2

9.500" - PASSED



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: Design Method: LSD 155 Vertical 413 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 172 64 0 0 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 Ld. Comb. 1 - SPF 2.375" Vert 49% 194 / 620 814 L 1.25D+1.5L 2 - SPF 5.250" Vert 18% 81 / 257 338 L 1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1002 ft-lb	4'3 13/16"	4095 ft-lb	0.245 (24%)	1.25D+1.5L	L
Unbraced	1002 ft-lb	4'3 13/16"	4095 ft-lb	0.245 (24%)	1.25D+1.5L	L
Shear	795 l b	1 5/8"	1830 lb	0.434 (43%)	1.25D+1.5L	L
Perm Defl in.	0.024 (L/5121)	5' 3/16"	0.345 (L/360)	0.070 (7%)	D	Uniform
LL Defl inch	0.065 (L/1922)	5' 3/16"	0.345 (L/360)	0.187 (19%)	L	L
TL Defl inch	0.089 (L/1397)	5' 3/16"	0.518 (L/240)	0.172 (17%)	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 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o c
- 4 Bottom flange must be laterally braced at a maximum of 9'8 9/16" o.c.



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				•					
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-7-13	0-3-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-3-2	1-5-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-1-14		Near Face	91 l b	242 lb	0 l b	0 lb	F1
4	Tie-In	1-3-2 to 10-5-3	0-4-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	10-5-3 to 10-10-7	0-2-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Tie-In	10-7-13 to 10-10-7	0-3-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the IJoist product information
 details for framing details, stiffener tables, web hole
 chart, bridging details, multi-rily fastening details and
 handling/erection details

 3. Damaged IJoists must not be used
 4. Design assumes top flange to be laterally restrained
 by attached sheathing or as specified in engineering
 notes.

- Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length=3.5 inches
 For flat roofs provide proper drainage to prevent

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: 12787

Kott Inc.





Page 6 of 30



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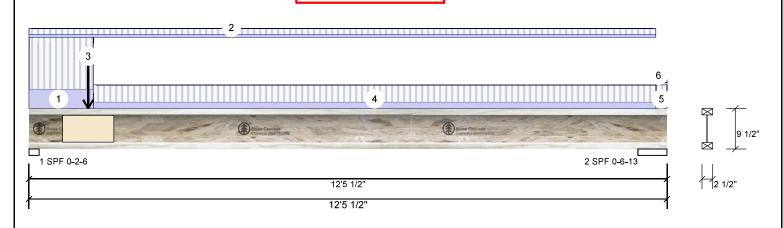
Date: 6/29/2023 W C Input by:

Job Name:

F3 **AJS 140** 9.500" - PASSED

OSHAV<mark>VA,ONOF PERMIT PLANS</mark>

Level: Ground Floor



Member Inform	nation			Unfa	ctored Rea	actions UNP	ATTERNED II	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	434	162	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	194	73	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 Read	ctions		
Dead:	15 PSF			Bea	ring Length	Dir. Cap.	React D/L Ib	Total Ld. Case	Ld. Comb.
				1 - 9	SPF 2.375"	Vert 52%	203 / 650	853 L	1.25D+1.5L
				2 - 9	SPF 6.813"	Vert 21%	91 / 292	383 L	1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1208 ft-lb	5'2"	4095 ft-lb	0.295 (30%)	1.25D+1.5L	L
Unbraced	1208 ft-lb	5'2"	4095 ft-lb	0.295 (30%)	1.25D+1.5L	L
Shear	836 lb	1 5/8"	1830 l b	0.457 (46%)	1.25D+1.5L	L
Perm Defl in.	0.037 (L/3848)	5'9 5/16"	0.394 (L/360)	0.094 (9%)	D	Uniform
LL Defl inch	0.098 (L/1442)	5'9 5/16"	0.394 (L/360)	0.250 (25%)	L	L
TL Defl inch	0.135 (L/1049)	5'9 5/16"	0.591 (L/240)	0.229 (23%)	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 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.

4 Bottom flange must be laterally braced at a maximum of 11'3 5/8" o.c.



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.

	ottom hange mast be laterally b	racca at a maximum	01 110 0/0 0.0	0					
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-3-2	1-5-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-2-14	0-2-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-1-14		Far Face	92 lb	246 l b	0 l b	0 l b	F1
4	Tie-In	1-3-2 to 12-2-14	0-5-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	12-2-14 to 12-5-8	0-5-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Tie-In	12-2-14 to 12-5-8	0-2-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
1									

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
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 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: 12787

Kott Inc.







F3-A

AJS 140

Client: **GREENPARK** Project:

ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY OSHAV<mark>VA,ONOF PERMIT PLANS</mark>

W C Input by: Job Name:

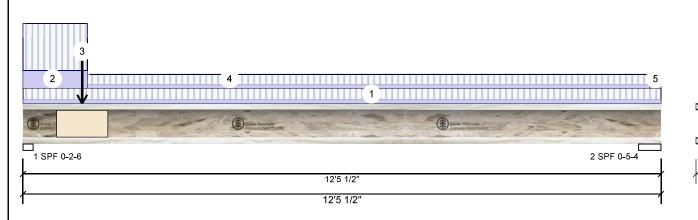
Date:

Page 7 of 30 6/29/2023

9.500" - PASSED

Address:

Level: Ground Floor



Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Floor (Residential)

Plies:	1	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		

Wind Brg Direction Live Dead Snow 181 Vertical 482 0 1 0 2 Vertical 196 74 0 0

Bearings and Factored Reactions Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.375" Vert 57% 226 / 723 949 L 1.25D+1.5L 2 - SPF 5.250" Vert 21% 92 / 295 387 I 1.25D+1.5L

Analysis Results

15 PSF

Type:

Dead:

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1282 ft-lb	5'1 1/8"	4095 ft-lb	0.313 (31%)	1.25D+1.5L	L
Unbraced	1282 ft-lb	5'1 1/8"	4095 ft-lb	0.313 (31%)	1.25D+1.5L	L
Shear	930 lb	1 5/8"	1830 lb	0.508 (51%)	1.25D+1.5L	L
Perm Defl in.	0.040 (L/3594)	5'9 11/16"	0.398 (L/360)	0.100 (10%)	D	Uniform
LL Defl inch	0.106 (L/1348)	5'9 11/16"	0.398 (L/360)	0.267 (27%)	L	L
TL Defl inch	0.146 (L/980)	5'9 11/16"	0.597 (L/240)	0.245 (24%)	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 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 11'3 5/8" o.c.



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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-5-8	0-4-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-3-2	1-5-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-1-14		Near Face	108 l b	288 lb	0 l b	0 lb	F1
4	Tie-In	1-3-2 to 12-2-14	0-3-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	12-2-14 to 12-5-8	0-3-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be cut or drilled

 2. Refer to latest copy of the Lioist product information details for framing details. stifferer tables, web hole chart, bridging details. multi-qly fastening details and handling/erection details

 3. Damaged Lioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length=3.5 inches
 For flat roofs provide proper drainage to prevent

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: 12787

Kott Inc.







Address:

ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY

Date: 6/29/2023 W C Input by:

Job Name:

Versa-Lam LVL 2.1E 3100 SP F4

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> SSED 750

Level: Ground Floor

2 3 1 Boise Cascade 1 SPF 0-2-6 2 SPF 0-6-0 12'4 3/4' 12'4 3/4'

Floor (Residential)

OBC 2012(2020 Update)

NBCC 2015

Not Checked

Not Checked

LSD



Member Information

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

Floor Live: 40 PSF Dead: 15 PSF

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	55	55	0	0
2	Vertical	58	61	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. Read	t D/L l b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	6%	69 / 82	152	L	1.25D+1.5L
2 - SPF	6.031"	Vert	3%	76 / 87	163	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	442 ft-lb	6' 15/16"	11494 ft-lb	0.038 (4%)	1.25D+1.5L	L
Unbraced	442 ft-lb	6' 15/16"	11494 ft-lb	0.038 (4%)	1.25D+1.5L	L
Shear	134 lb	11'1 3/16"	5234 lb	0.026 (3%)	1.25D+1.5L	L
Perm Defl in.	0.016 (L/8991)	6' 13/16"	0.394 (L/360)	0.040 (4%)	D	Uniform
LL Defl inch	0.015 (L/9271)	6' 9/16"	0.394 (L/360)	0.039 (4%)	L	L
TL Defl inch	0.031 (L/4564)	6' 11/16"	0.591 (L/240)	0.053 (5%)	D+L	L

Application:

Design Method:

Building Code:

Load Sharing: Deck:

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 Girders are designed to be supported on the bottom edge only.
- 3 Top must be continuously laterally braced.
- 4 Bottom must be laterally braced at bearings.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	 Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-4-12	0-2-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-4-14 to 8-1-14		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	8-1-14 to 11-11-14		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				5 PLF				

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







Client: Project: Address: **GREENPARK** ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY

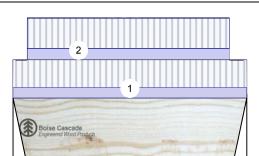
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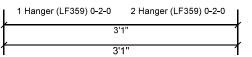
Job Name:

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750 ' X S

Froject: Level: Ground Floor 'A\$SED





Member Information

Type:	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 lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	182	84	0	0
2	Vertical	179	83	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	269 ft-lb	1'6 1/2"	23220 ft-lb	0.012 (1%)	1.25D+1.5L	L
Unbraced	269 ft-lb	1'6 1/2"	23220 ft-lb	0.012 (1%)	1.25D+1.5L	L
Shear	254 lb	2'1 1/2"	10574 lb	0.024 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/183855)	1'6 9/16"	0.096 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/83903)	1'6 9/16"	0.096 (L/360)	0.004 (0%)	L	L
TL Defl inch	0.001 (L/57612)	1'6 9/16"	0.144 (L/240)	0.004 (0%)	D+L	L

Bearings and Factored Reactions

ш								
	Bearing	Length	Dir.	Cap. R	leact D/L I b	Total	Ld. Case	Ld. Comb.
	1 -	2.000"	Vert	5%	105 / 273	378	L	1.25D+1.5L
	Hanger							
	2 -	2.000"	Vert	5%	104 / 269	372	L	1.25D+1.5L
	Hanger							

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: 5 1/4"
- 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.



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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

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

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

www.bc.com CCMC: 12472

Manufacturer Info

Kott Inc.

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





Page 10 of 30



Client: Project: Address: **GREENPARK** ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES E COPY OSHAWA, ONOF PERMIT PLANS

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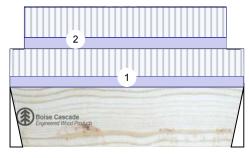
Job Name: RIVER 5-2 STD

Versa-Lam LVL 2.1E 3100 SP

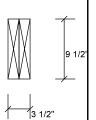
lov 04 2023 1.750 ' X S Morto

Froject # 'A\$SED

Level: Ground Floor



1 Hanger (LF359) 0-2-0 2 Hanger (LF359) 0-2-0 3'1' 3'1'



I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-1-0		Тор	23 PLF	60 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-2-4 to 2-10-4		Near Face	25 PLF	66 PLF	0 PLF	0 PLF	
	Self Weight				9 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

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.







Client: Project: Address:

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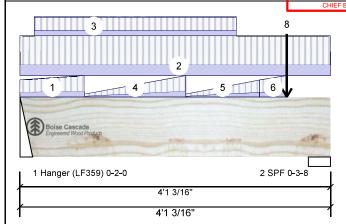
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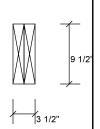
Job Name:

Versa-Lam LVL 2.1E 3100 SP

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> 1.750 ' X S

Froject: Level: Ground Floor 'A\$SED





Member Information

Type:	Girder	Application:	Floor (Residential)		
Plies:	2	Design Method:	LSD		
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)		
Deflection LL:	360				
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	VVind
1	Vertical	140	71	0	0
2	Vertical	130	69	0	0

Analysis Results

Dead:

15 PSF

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	263 ft-lb	1'11 7/16"	23220 ft-lb	0.011 (1%)	1.25D+1.5L	L
Unbraced	263 ft-lb	1'11 7/16"	23220 ft-lb	0.011 (1%)	1.25D+1.5L	L
Shear	193 l b	3' 3/16"	10574 lb	0.018 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/139085)	1'11 13/16"	0.125 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/71158)	1'11 3/4"	0.125 (L/360)	0.005 (1%)	L	L
TL Defl inch	0.001 (L/47074)	1'11 3/4"	0.188 (L/240)	0.005 (1%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	4%	89 / 210	299	L	1.25D+1.5L
2 - SPF	3.500"	Vert	4%	87 / 195	282	L	1.25D+1.5L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 3.5.
- 2 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.
- 3 Fill all hanger nailing holes.
- 4 Left 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.



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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

1. UVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-rily 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

Kott Inc.

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





Page 12 of 30



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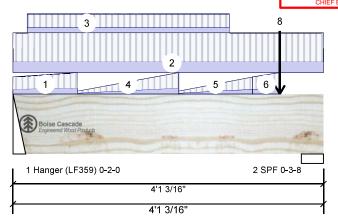
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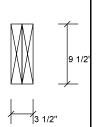
Job Name:

Versa-Lam LVL 2.1E 3100 SP

lov 04 2023 1.750 ' X § Morto

Froject # Level: Ground Floor 'ASSED





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-10-4	0-5-3 to 0-6-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 4-1-3		Тор	15 PLF	40 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-2-4 to 2-10-4		Near Face	7 PLF	19 PLF	0 PLF	0 PLF	
4	Tie-In	0-10-4 to 2-2-4	0-0-14 to 0-6-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	2-2-4 to 3-1-15	0-0-14 to 0-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Tie-In	3-1-15 to 3-6-4	0-5-2 to 0-6-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Point	3-6-4		Тор	2 l b	4 lb	0 lb	0 lb	
	Bearing Length	0-3-8							
8	Point	3-6-4		Тор	1 l b	2 l b	0 lb	0 lb	
	Bearing Length	0-3-8							
	Self Weight				9 PLF			201	ESSION

T.: 1. 146-141



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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

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-pty 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

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

Manufacturer Info





Client: Project: Address: **GREENPARK** ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY

6/29/2023 Date: W C Input by:

Job Name:

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750 X S 'A\$SED

Floor (Residential)

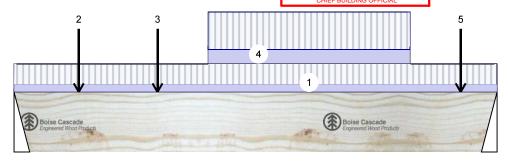
OBC 2012(2020 Update)

NBCC 2015

Not Checked

LSD

Level: Ground Floor



1 Hanger (HUC410 (Min)) 0-2-8

2 Hanger (HUC410 (Min)) 0-2-8

6'4 1/2'

6'4 1/2'

Member Information

Type: Plies:

Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

General Load

Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	600	255	0	0
2	Vertical	627	265	0	0
1					

Deck: Vibration: Not Checked

Application:

Design Method:

Building Code:

Load Sharing:

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1865 ft-lb	3'2 3/16"	23220 ft-lb	0.080 (8%)	1.25D+1.5L	L
Unbraced	1865 ft-lb	3'2 3/16"	23220 ft-lb	0.080 (8%)	1.25D+1.5L	L
Shear	1127 lb	5'4 1/2"	10574 l b	0.107 (11%)	1.25D+1.5L	L
Perm Defl in.	0.005 (L/14427)	3'2 3/16"	0.203 (L/360)	0.025 (2%)	D	Uniform
LL Defl inch	0.012 (L/6085)	3'2 3/16"	0.203 (L/360)	0.059 (6%)	L	L
TL Defl inch	0.017 (L/4280)	3'2 3/16"	0.304 (L/240)	0.056 (6%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.500"	Vert	13%	318 / 900	1218	L	1.25D+1.5L
2 - Hanger	2.500"	Vert	13%	331 / 940	1271	L	1.25D+1.5L



- 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.



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.

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

Dariga 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 (800) 232-0788

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. www.bc.com CCMC: 12472

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





2

Client: Project: Address: **GREENPARK** ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES E COPY OSHAWA, ONOF PERMIT PLANS

Date: 6/29/2023 Input by: WC

Job Name: RIVER 5-2 STD

Versa-Lam LVL 2.1E 3100 SP F7

lov 04 2023 1.750 ' X S 'ASSED Morto

Froject # Level: Ground Floor

3 5 4

1 Hanger (HUC410 (Min)) 0-2-8

2 Hanger (HUC410 (Min)) 0-2-8

6'4 1/2' 6'4 1/2"

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 6-4-8	1-9-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-10-4		Near Face	50 lb	134 lb	0 lb	0 l b	J3
3	Point	1-10-12		Near Face	58 lb	155 lb	0 lb	0 l b	J3
4	Part. Uniform	2-6-12 to 5-2-12		Near Face	49 PLF	131 PLF	0 PLF	0 PLF	
5	Point	5-10-12		Near Face	48 lb	129 l b	0 lb	0 l b	J3
	Self Weight				9 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

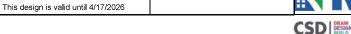
Manufacturer Info

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

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

Kott Inc.







Address:

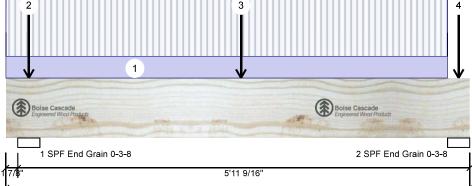
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6/29/2023 W C Input by:

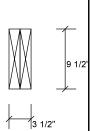
Level: Ground Floor

Versa-Lam LVL 2.1E 3100 SP

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> 1.750") - PASSED



6'1 7/16'



Member Information

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

Application: Floor (Residential) Design Method: LSD

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

Load Sharing:

Not Checked Deck: Vibration: Not Checked

40 PSF 15 PSF

Floor Live:

Dead:

Analysis Res	su i ts					
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4851 ft-lb	3'1 3/16"	23220 ft-lb	0.209 (21%)	1.25D+1.5L	_L
Unbraced	4851 ft-lb	3'1 3/16"	23220 ft-lb	0.209 (21%)	1.25D+1.5L	_L
Shear	1770 lb	5' 7/16"	10574 lb	0.167 (17%)	1.25D+1.5L	_L
Perm Defl in.	0.010 (L/7056)	3'1 3/16"	0.186 (L/360)	0.051 (5%)	D	Uniform
LL Defl inch	0.021 (L/3186)	3'1 3/16"	0.186 (L/360)	0.113 (11%)	L	_L
TL Defl inch	0.031 (L/2195)	3'1 3/16"	0.279 (L/240)	0.109 (11%)	D+L	_L
LL Cant	-0.002 (2L/2203)	Lt Cant	0.200 (2L/360)	0.008 (1%)	L	_L
TL Cant	-0.002 (21/1517)	Lt Cant	0.300 (21/240)	0.008 (1%)	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 be laterally braced at a maximum of 5'8 1/16" o.c.
- 7 Lateral slenderness ratio based on full section width.

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1003	472	0	0
2	Vertical	1488	665	0	0

Bearings and Factored Reactions

Grain

Bearing	Length	Dir.	Cap. Re	eact D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	16%	590 / 1504	2094	LL	1.25D+1.5L
2 - SPF End	3.500"	Vert	24%	831 / 2233	3064	_L	1.25D+1.5L

I.MATIJEVIC 100528832 JULY 04, 2023

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.

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

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

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products

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

Kott Inc.



Page 16 of 30



Client: **GREENPARK** Project:

Address:

ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES E COPY OSHAWA, ONOF PERMIT PLANS

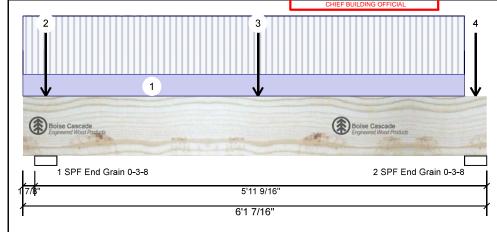
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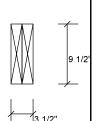
Job Name:

Versa-Lam LVL 2.1E 3100 SP

lov 04 2023 1.750") Morto

Frojedt # - PASSED Level: Ground Floor





I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 5-9-15	0-3-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-3-10		Near Face	71 l b	140 l b	0 lb	0 lb	F6
3	Point	3-1-3		Тор	716 l b	1651 l b	0 lb	0 l b	C3
	Bearing Length	0-3-8							
4	Point	5-11-11		Far Face	265 lb	627 l b	0 lb	0 lb	F7
	Self Weight				9 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

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.







ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY Address:

6/29/2023 W C

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750" 2

Floor (Residential)

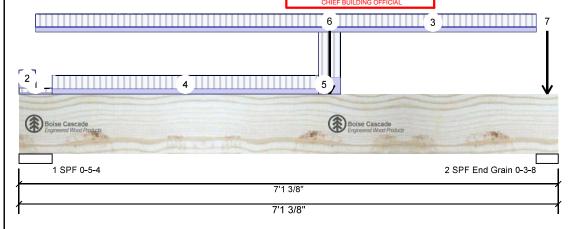
OBC 2012(2020 Update)

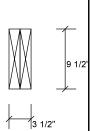
NBCC 2015

Not Checked

LSD

- PASSED Level: Ground Floor





Member Information

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

Design Method: **Building Code:** Load Sharing: Deck:

Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	214	121	0	0
2	Vertical	798	371	0	0
I					

Vibration: Not Checked

Application:

╙	
В	
Г.	

earings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	4%	152 / 320	472	L	1.25D+1.5L
2 - SPF Fnd	3.500"	Vert	13%	464 / 1197	1662	L	1.25D+1.5L

Grain

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1033 ft-lb	4'1 3/16"	23220 ft-lb	0.045 (4%)	1.25D+1.5L	L
Unbraced	1033 ft-lb	4'1 3/16"	23220 ft-lb	0.045 (4%)	1.25D+1.5L	L
Shear	408 lb	6' 3/8"	10574 l b	0.039 (4%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/22982)	3'8 3/8"	0.217 (L/360)	0.016 (2%)	D	Uniform
LL Defl inch	0.006 (L/12443)	3'8 7/16"	0.217 (L/360)	0.029 (3%)	L	L
TL Defl inch	0.010 (L/8072)	3'8 3/8"	0.326 (L/240)	0.030 (3%)	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 be laterally braced at a maximum of 4'1 3/16" o.c.
- 7 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	Tie-In	0-0-0 to 0-5-4	0-2-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-2-10	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-2-10 to 6-9-14	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	0-5-4 to 3-11-7	0-6-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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

1. UVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-rily 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

This design is valid until 4/17/2026

Manufacturer Info 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788

Boise Cascade Wood Products www.bc.com CCMC: 12472



Continued from page	1
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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Tie-In	3-11-7 to 4-2-15	1-8-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Point	4-1-3		Far Face	83 lb	179 l b	0 l b	0 lb	F5
7	Point	6-11-10		Near Face	255 l b	600 l b	0 l b	0 lb	F7
	Self Weight				9 PLF				



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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

Kott Inc.







Address:

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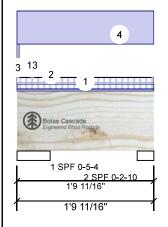
6/29/2023 Date: W C Input by:

Job Name: Frojedt #

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750 ' X S 'ASED Morto

Level: Ground Floor



1.25D+1.5L

1.25D+1.5L

Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 2 Design Method: LSD Vertical 20 86 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertica 16 66 n 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked 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 Ld. Comb.

1 - SPF 5.250"

2 - SPF 2.625"

Vert

Vert

2%

3%

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	27 ft-lb	1' 1/8"	16021 ft-lb	0.002 (0%)	1.25D+1.5L	L
Unbraced	27 ft-lb	1' 1/8"	16021 ft-lb	0.002 (0%)	1.25D+1.5L	L
Shear	20 lb	1'2 3/4"	7296 l b	0.003 (0%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/1024588)	1' 3/16"	0.042 (L/360)	0.000 (0%)	D	Uniform
LL Defl inch	0.000 (L/4250349)	1' 3/16"	0.042 (L/360)	0.000 (0%)	L	L
TL Defl inch	0.000 (L/825575)	1' 3/16"	0.064 (L/240)	0.000 (0%)	D+L	L

I.MATIJEVIC 100528832 JULY 04, 2023

107 / 30

82 / 24

138 L

106 L

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Design Notes

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- 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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-9-11	0-3-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-9-11	0-3-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-0-0 to 0-0-5		Тор	66 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-0-0 to 1-9-11		Тор	66 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
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-rily 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





Page 20 of 30



Client: Project: Address: **GREENPARK**

ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES E COPY OSHAWA, ONOF PERMIT PLANS

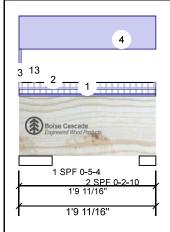
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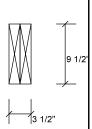
Job Name: Frojedt #

Versa-Lam LVL 2.1E 3100 SP

lov 04 2023 1.750 ' X S 'ASSED Morto

Level: Ground Floor





Continued	from page 1							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind
5	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF
6	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF
7	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF
8	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF
9	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF
10	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF
11	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF
12	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF
13	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF
	Self Weight				9 PLF			



Comments

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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

This design is valid until 4/17/2026

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

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







Client: Project: Address: **GREENPARK** ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY

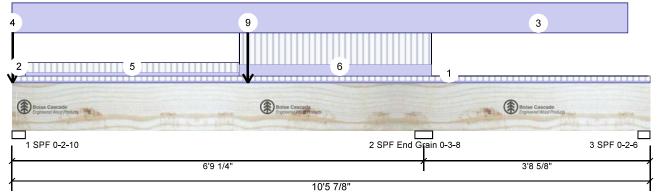
Date: 6/29/2023 W C Input by:

Job Name: Froject:

Versa-Lam LVL 2.1E 3100 SP

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> 1.750 ' X S 'ASED

Level: Ground Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	3	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015
Deflection LL:	360		OBC 2012(2020 Update)
Deflection TL:	240	Load Sharing:	Yes
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	3101	1514	0	0					
2	Vertical	1071	1001	0	0					
3	Vertical	0 (-219)	(-54)	0	0					

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2184 ft-lb	6'9 1/4"	36222 ft-lb	0.060 (6%)	1.25D+1.5L	LL
Unbraced	-2184 ft-lb	6'9 1/4"	36222 ft-lb	0.060 (6%)	1.25D+1.5L	LL
Pos Moment	2598 ft-lb	3'10 9/16"	36222 ft-lb	0.072 (7%)	1.25D+1.5L	L_
Unbraced	2598 ft-lb	3'10 9/16"	36222 ft-lb	0.072 (7%)	1.25D+1.5L	L_
Shear	1798 l b	5'10"	15860 l b	0.113 (11%)	1.25D+1.5L	LL
Perm Defl in.	0.006 (L/12828)	3'4 1/16"	0.220 (L/360)	0.028 (3%)	D	Uniform
LL Defl inch	0.009 (L/9310)	3'5 7/16"	0.220 (L/360)	0.039 (4%)	L	L_
TL Defl inch	0.015 (L/5397)	3'4 13/16"	0.331 (L/240)	0.044 (4%)	D+L	L_

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	2.625"	Vert	77%	1891 / 4651	6542	L_	1.25D+1.5L
2 - SPF End Grain	3.500"	Vert	15%	1256 / 1614	2870	LL	1.25D+1.5L
3 - SPF	2.375"	Vert	0%	0/0	0 (-431)		(1.25D+1.5L)



- 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 Tie-down connection required at bearing 3 for uplift 431 lb (Combination 1.25D+1.5L, Load Case L_).
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at a maximum of 3'10 9/16" o.c.
- 8 Lateral slenderness ratio based on full section width.



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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

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

Dariga 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





Page 22 of 30



4

Client: Project: Address:

9

GREENPARK ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES E COPY OSHAWA, ONOF PERMIT PLANS

Date: 6/29/2023 Input by: W C

Job Name:

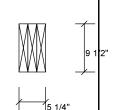
Versa-Lam LVL 2.1E 3100 SP

1.750 ' X S 'ASSED Morto

Froject # Level: Ground Floor

3 6





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-5-14	0-3-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-2-10	0-2-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-0-0 to 10-1-8		Тор	66 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Point	0-0-2		Тор	1131 lb	2736 lb	0 lb	0 l b	F12
	Bearing Length	0-3-8							
5	Tie-In	0-2-10 to 3-8-13	0-6-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Tie-In	3-8-13 to 6-10-12	1-8-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Point	3-10-9		Тор	3 lb	8 lb	0 l b	0 l b	
	Bearing Length	0-3-8							
8	Point	3-10-9		Тор	271 lb	617 l b	0 lb	0 l b	F11
	Bearing Length	0-3-8							
9	Point	3-10-9		Near Face	84 lb	182 l b	0 lb	0 l b	F5
	Self Weight				14 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. 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







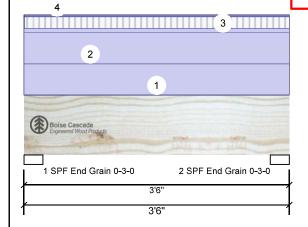
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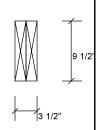
6/29/2023 WC Input by:

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750" X

Level: Ground Floor **PASSED**





Member Information

Type:	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 lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	33	213	0	0
2	Vertical	33	213	0	0

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	220 ft-lb	1'9"	15093 ft-lb	0.015 (1%)	1.25D+1.5L	L
Unbraced	220 ft-lb	1'9"	15093 ft-lb	0.015 (1%)	1.25D+1.5L	L
Shear	220 lb	2'5 1/2"	6873 lb	0.032 (3%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/68776)	1'9"	0.104 (L/360)	0.005 (1%)	D	Uniform
LL Defl inch	0.000 (L/439686)	1'9"	0.104 (L/360)	0.001 (0%)	L	L
TL Defl inch	0.001 (L/59473)	1'9"	0.156 (L/240)	0.004 (0%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. R	eact D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	4%	266 / 50	316	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	4%	266 / 50	316	L	1.25D+1.5L

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 laterally braced at a maximum of 3'6" o.c.
- 6 Bottom must be laterally braced at a maximum of 3'6" o.c.

7 Lateral slenderness ratio based on full section width.



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.

ID	Load Type	Location Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-6-0	Тор	51 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-6-0	Near Face	51 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0	Near Face	7 PLF	19 PLF	0 PLF	0 PLF	
	End	3-6-0		7 PLF	19 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

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

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

Kott Inc.







Address:

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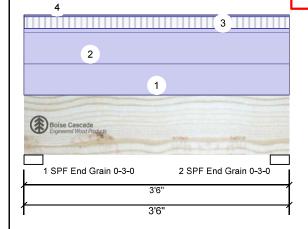
Date: 6/29/2023 Input by: WC

Job Name:

Versa-Lam LVL 2.1E 3100 SP

ov 04 2023 -1.750" X Morto

PASSED Level: Ground Floor



.Continued from page 1

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

> Self Weight 9 PLF



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Handling & Installation

Handling & Installation

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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

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





Page 1 of 4



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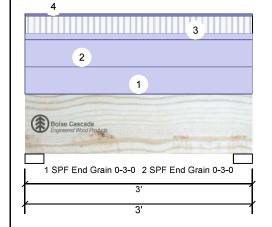
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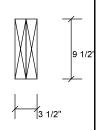
Job Name:

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.75<mark>0" X</mark>

Level: Ground Floor **PASSED**





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 lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	39	157	0	0
2	Vertical	39	157	0	0

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	146 ft-lb	1'6"	16254 ft-lb	0.009 (1%)	1.25D+1.5L	L
Unbraced	146 ft-lb	1'6"	16254 ft-lb	0.009 (1%)	1.25D+1.5L	L
Shear	171 l b	1' 1/2"	7401 lb	0.023 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/130052)	1'6"	0.088 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.000 (L/522544)	1'6"	0.088 (L/360)	0.001 (0%)	L	L
TL Defl inch	0.000 (L/104135)	1'6"	0.131 (L/240)	0.002 (0%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	3%	196 / 59	254	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	3%	196 / 59	254	L	1.25D+1.5L



- 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 laterally braced at a maximum of 3' o.c.
- 6 Bottom must be laterally braced at a maximum of 3' o.c.

7 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	Part. Uniform	0-0-0 to 3-0-0	Тор	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-0-0	Near Face	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0	Near Face	10 PLF	26 PLF	0 PLF	0 PLF	
	End	3-0-0		10 PLF	26 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

- 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

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Page 2 of 4



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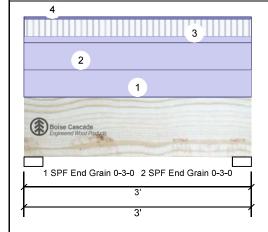
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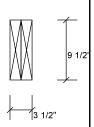
Versa-Lam LVL 2.1E 3100 SP FH6

OSHAVA,ONOF PERMIT PLANS ov 04 2023 -1.750" X Morto

PASSED Level: Ground Floor



Part. Uniform



.Continued from page 1

4

ID Location Trib Width Side Load Type Live Snow Wind Comments Dead Near Face

Self Weight

0-0-0 to 3-0-0

3 PLF 9 PLF 0 PLF

0 PLF

0 PLF

Rim Board Self Weight



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

Handling & Installation

Handling & Installation

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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.





Page 3 of 4



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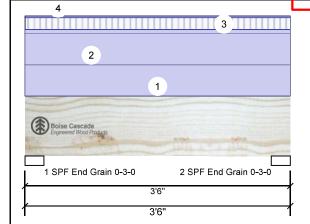
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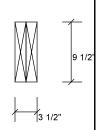
Job Name: Froject #

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750" X

PASSED Level: Ground 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 lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	33	213	0	0
2	Vertical	33	213	0	0
l					

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	220 ft-lb	1'9"	15093 ft-lb	0.015 (1%)	1.25D+1.5L	L
Unbraced	220 ft-lb	1'9"	15093 ft-lb	0.015 (1%)	1.25D+1.5L	L
Shear	220 lb	2'5 1/2"	6873 lb	0.032 (3%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/68776)	1'9"	0.104 (L/360)	0.005 (1%)	D	Uniform
LL Defl inch	0.000 (L/439686)	1'9"	0.104 (L/360)	0.001 (0%)	L	L
TL Defl inch	0.001 (L/59473)	1'9"	0.156 (L/240)	0.004 (0%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. R	eact D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	4%	266 / 50	316	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	4%	266 / 50	316	L	1.25D+1.5L



- 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 laterally braced at a maximum of 3'6" o.c.
- 6 Bottom must be laterally braced at a maximum of 3'6" o.c.

7 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	Part. Uniform	0-0-0 to 3-6-0	Тор	51 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-6-0	Near Face	51 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0	Near Face	7 PLF	19 PLF	0 PLF	0 PLF	
	End	3-6-0		7 PLF	19 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

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







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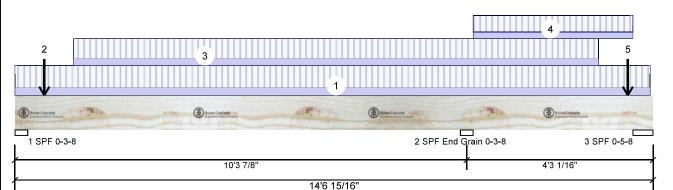
Date: 6/29/2023 W C Input by:

Job Name: Froject:

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750" X

PASSED 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	617	271	0	0
2	Vertical	1651	716	0	0
3	Vertical 72 27		0	0	
l					

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2987 ft-lb	10'3 7/8"	23220 ft-lb	0.129 (13%)	1.25D+1.5L	LL
Pos Moment	2547 ft-lb	4'4 1/4"	23220 ft-lb	0.110 (11%)	1.25D+1.5L	L_
Unbraced	2547 ft-lb	4'4 1/4"	23220 ft-lb	0.110 (11%)	1.25D+1.5L	L_
Shear	1543 lb	9'4 5/8"	10574 l b	0.146 (15%)	1.25D+1.5L	LL
Perm Defl in.	0.016 (L/7642)	4'9 1/4"	0.336 (L/360)	0.047 (5%)	D	Uniform
LL Defl inch	0.038 (L/3168)	4'9 7/8"	0.336 (L/360)	0.114 (11%)	L	L_
TL Defl inch	0.054 (L/2240)	4'9 11/16"	0.505 (L/240)	0.107 (11%)	D+L	L_

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	17%	338 / 940	1279	L_	1.25D+1.5L
2 - SPF End Grain	3.500"	Vert	26%	897 / 2482	3380	LL	1.25D+1.5L
3 - SPF	5.500"	Vert	6%	32 / 630	662 (-465)	_L	1.25D+1.5L (0.9D+1.5L)



- 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 Tie-down connection required at bearing 3 for uplift 465 lb (Combination 0.9D+1.5L, Load Case L_).
- 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.



I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 14-6-2	1-11-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-8-1		Near Face	28 l b	76 lb	0 l b	0 lb	J2
3	Part. Uniform	1-4-1 to 13-4-1		Near Face	26 PLF	70 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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Handling & Installation

Handling & Installation

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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

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

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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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Page 26 of 30



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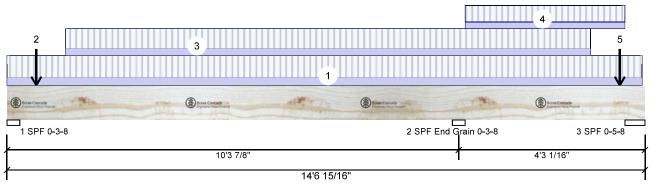
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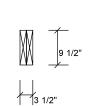
Job Name:

Versa-Lam LVL 2.1E 3100 SP

ov 04 2023 1.750" X Morto

Froject # Level: Second Floor PASSED





..Continued from page 1

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Part. Uniform	10-5-10 to 14-1-7		Тор	23 PLF	60 PLF	0 PLF	0 PLF	
5	Point	14-0-1		Near Face	31 l b	82 l b	0 lb	0 l b	J2
	Self Weight				9 PLF				



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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

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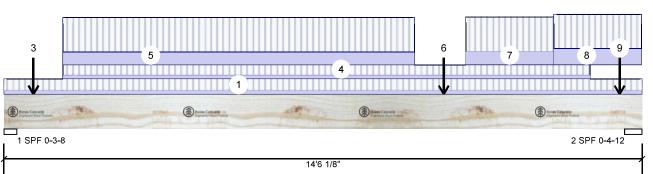
6/29/2023 Date: W C Input by:

Job Name:

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750" X

Frojedt Level: Second Floor **PASSED**



14'6 1/8'



Member Information

Type:	Girder
Plies:	3
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

40 PSF 15 PSF

Application: Floor (Residential) Design Method: LSD Building Code: **NBCC 2015**

OBC 2012(2020 Update) Load Sharing:

Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	2736	1131	0	0
2	Vertical	2807	1207	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	49%	1413 / 4104	5517	L	1.25D+1.5L
2 - SPF	4.750"	Vert	37%	1508 / 4211	5719	L	1.25D+1.5L

Analysis Results

Floor Live:

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	18816 ft-lb	7'2 1/2"	36222 ft-lb	0.519 (52%)	1.25D+1.5L	L
Unbraced	18816 ft-lb	7'2 1/2"	36222 ft-lb	0.519 (52%)	1.25D+1.5L	L
Shear	5739 lb	1'1"	15860 lb	0.362 (36%)	1.25D+1.5L	L
Perm Defl in.	0.173 (L/968)	7'2 9/16"	0.465 (L/360)	0.372 (37%)	D	Uniform
LL Defl inch	0.417 (L/402)	7'2 1/2"	0.465 (L/360)	0.896 (90%)	L	L
TL Defl inch	0.590 (L/284)	7'2 1/2"	0.698 (L/240)	0.845 (85%)	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.
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- 7 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	Tie-In	0-0-0 to 14-6-2	1-11-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-8-1		Far Face	28 lb	76 l b	0 lb	0 lb	J2
3	Point	0-8-1		Near Face	113 lb	302 lb	0 lb	0 lb	J6
4	Part. Uniform	1-4-1 to 13-4-1		Far Face	26 PLF	70 PLF	0 PLF	0 PLF	
5	Part. Uniform	1-4-1 to 9-4-1		Near Face	89 PLF	237 PLF	0 PLF	0 PLF	

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.





Page 28 of 30



Client: **GREENPARK** Project:

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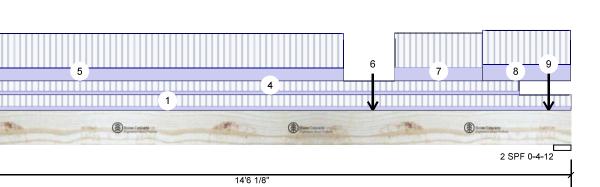
Date: 6/29/2023 Input by: WC

Job Name:

Versa-Lam LVL 2.1E 3100 SP

OSHAV A,ONOF PERMIT PLANS lov 04 2023 1.750" X Morto

Frojedt # Level: Second Floor **PASSED**





.Continued from page 1

1 SPF 0-3-8

3

	, ,							
ID	Load Type	Location Trib	Width Side	Dead	Live	Snow	Wind	Comments
6	Point	10-0-1	Near Face	104 l b	276 lb	0 l b	0 l b	J6
7	Part. Uniform	10-6-1 to 12-6-1	Near Face	93 PLF	237 PLF	0 PLF	0 PLF	
8	Part. Uniform	12-6-1 to 14-6-1	Near Face	112 PLF	237 PLF	0 PLF	0 PLF	
9	Point	14-0-1	Far Face	31 lb	82 lb	0 l b	0 lb	J2
	Self Weight			14 PLF				

14'6 1/8'



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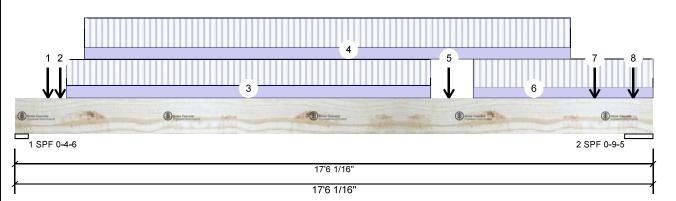
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Versa-Lam LVL 2.1E 3100 SP

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> 1.750" X

- PASSED Level: Second Floor



Floor (Residential)

NBCC 2015



Member Information

Type: Plies:

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

40 PSF

15 PSF

Design Method: Building Code: Load Sharing: Deck:

Application:

OBC 2012(2020 Update) Not Checked Vibration: Not Checked

LSD

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	3519	1632	0	0
2	Vertical	3994	1757	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	4.375"	Vert	52%	2040 / 5278	7318	L	1.25D+1.5L
2 - SPF	9.340"	Vert	27%	2196 / 5991	8187	L	1.25D+1.5L

Analysis Results

Floor Live:

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	30896 ft-lb	8'6 5/8"	55212 ft-lb	0.560 (56%)	1.25D+1.5L	L
Unbraced	30896 ft-lb	8'6 5/8"	55212 ft-lb	0.560 (56%)	1.25D+1.5L	L
Shear	7740 l b	1'4 1/4"	19825 lb	0.390 (39%)	1.25D+1.5L	L
Perm Defl in.	0.218 (L/908)	8'6 7/16"	0.550 (L/360)	0.397 (40%)	D	Uniform
LL Defl inch	0.477 (L/415)	8'6 9/16"	0.550 (L/360)	0.868 (87%)	L	L
TL Defl inch	0.695 (L/285)	8'6 9/16"	0.824 (L/240)	0.843 (84%)	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.
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- 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.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-10-14		Near Face	95 lb	200 lb	0 l b	0 l b	J5
2	Point	1-2-14		Far Face	115 l b	306 lb	0 l b	0 l b	J5
3	Part. Uniform	1-4-14 to 11-4-14		Near Face	97 PLF	204 PLF	0 PLF	0 PLF	
4	Part. Uniform	1-10-14 to 15-2-14		Far Face	88 PLF	233 PLF	0 PLF	0 PLF	
5	Point	11-10-14		Near Face	115 l b	238 lb	0 l b	0 l b	J5
6	Part. Uniform	12-6-14 to 17-6-1		Near Face	83 PLF	221 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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Handling & Installation

Handling & Installation

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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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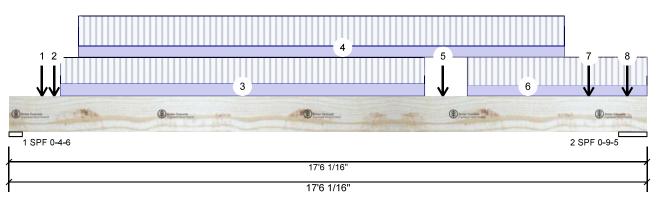
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- PASSED Level: Second Floor





.Continued from page 1

ID Location Trib Width Side Load Type Dead Live Snow Wind Comments Point 15-10-14 Far Face 105 lb 279 lb 0 lb 0 lb 7 J5 8 Point 16-11-9 Far Face 95 lb 253 lb 0 lb 0 lb J5 Self Weight 18 PLF



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