Page 1 of 27

isDesign

Client: Address:

GREENPARK Project:

ZADORRA ESTATES OSHAWA,ON

7/7/2023 WC Input by:

Job Name: P 230 Level: Ground Floor

F1 AJS 140 11.875" - PASSED

TRUE COPY OF PERMIT PLANS

15 2023



1 SPF 0-2-6 anger (LF2511) 0-2-0 1'4 3/16' 1'4 3/16'

11 7/8"

Member Information

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

General Load Floor Live: 40 PSF

15 PSF

Application: Floor (Residential) Design Method: LSD

> 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	44	19	0	0
2	Vertical	42	21	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. Rea	ct D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	5%	24 / 65	89	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	5%	26 / 62	88	L	1.25D+1.5L

Analysis Results

Dead:

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	20 ft-lb	8 5/16"	5305 ft-lb	0.004 (0%)	1.25D+1.5L	L
Unbraced	20 ft-lb	8 5/16"	5305 ft-lb	0.004 (0%)	1.25D+1.5L	L
Shear	74 l b	1'2 15/16"	2350 lb	0.032 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/184462)	8 3/8"	0.037 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/89698)	8 5/16"	0.037 (L/360)	0.004 (0%)	L	L
TL Defl inch	0.000 (L/60355)	8 5/16"	0.055 (L/240)	0.004 (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 Right Header: SPF, Thickness: 2 1/2"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 6 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.

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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 1-4-3	1-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-4-14 to 1-4-3		Тор	8 PLF	0 PLF	0 PLF	0 PLF	

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

 1. Lioist flanges must not be cut or drilled

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

 3. Damaged Lioist must not be used

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

 Tr.:- ...

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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





11'1 5/16' Member Information Unfactored Reactions UNPATTERNED Ib (Uplift) Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 2 Design Method: LSD 1816 767 Vertical 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 1923 814 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" Vert 959 / 2724 3682 L 1.25D+1.5L 1.25D+1.5L 2 - SPF 2.375" Vert 76% 1017 / 2885 3902 L

11'1 5/16'

Analysis Results

1 SPF 0-5-4

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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 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.



2 SPF 0-2-6

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	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Tie-In	0-0-0 to 0-2-10	0-7-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Tie-In	0-2-10 to 6-8-0	0-7-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	3	Point	1-0-7		Near Face	114 lb	303 lb	0 lb	0 lb	J5
	4	Part. Uniform	1-8-7 to 9-8-7		Near Face	118 PLF	314 PLF	0 PLF	0 PLF	
	5	Point	6-9-12		Far Face	174 lb	346 lb	0 lb	0 lb	F11

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

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

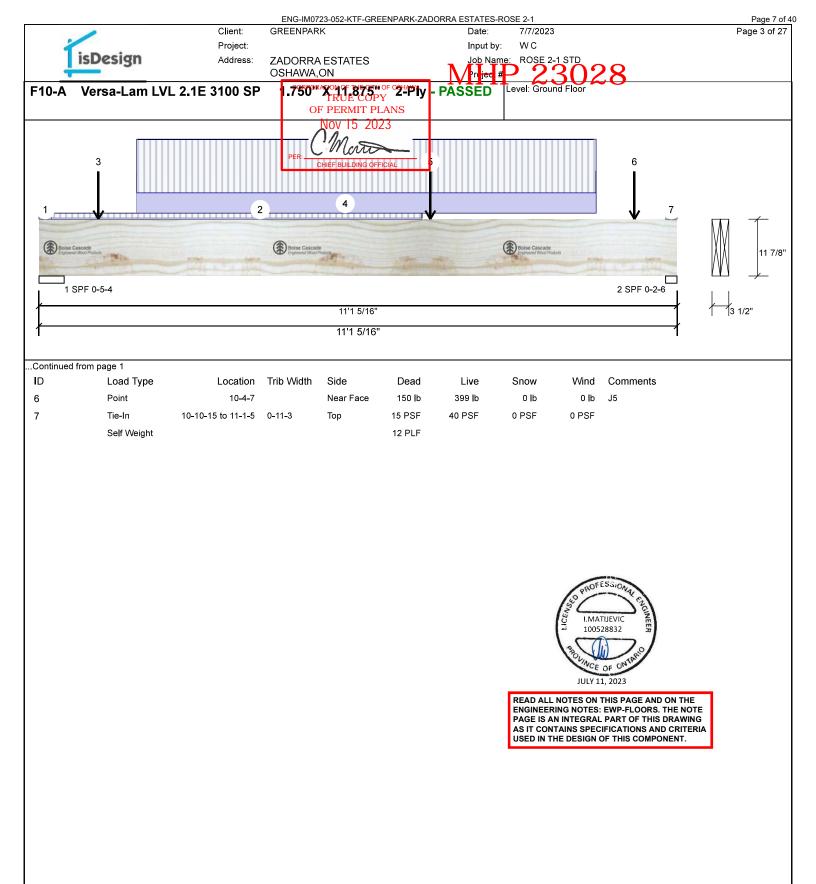
1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

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

11 7/8"







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

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

This design is valid until 4/17/2026

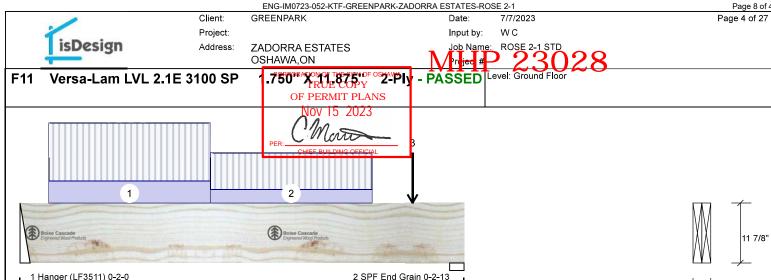
Manufacturer Info

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

Boise Cascade Wood Products 1111 W. Jefferson St.







Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Type: Brg Direction Live Dead Plies: 2 Design Method: LSD 174 Vertical 346 1 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 296 155 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 1 -2.000" Vert 217 / 520 737 L Ha 2 -637 L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1274 ft-lb	3'3 1/4"	35392 ft-lb	0.036 (4%)	1.25D+1.5L	L
Unbraced	1274 ft-lb	3'3 1/4"	35392 ft-lb	0.036 (4%)	1.25D+1.5L	L
Shear	789 lb	6'1 3/16"	13217 lb	0.060 (6%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/31512)	3'6 13/16"	0.235 (L/360)	0.011 (1%)	D	Uniform
LL Defl inch	0.005 (L/15730)	3'6 5/8"	0.235 (L/360)	0.023 (2%)	L	L
TL Defl inch	0.008 (L/10492)	3'6 11/16"	0.352 (L/240)	0.023 (2%)	D+L	L

7'3 7/8' 7'3 7/8'

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.

				OFESSIO.	
2 - SPF End Grain	2.844"	Vert	6%	194 / 443	
Hanger					

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I.MATIJEVIC 100528832

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-5-11 to 3-1-11		Far Face	48 PLF	127 PLF	0 PLF	0 PLF	
2	Part. Uniform	3-1-11 to 5-9-11		Far Face	30 PLF	80 PLF	0 PLF	0 PLF	
3	Point	6-5-11		Far Face	34 lb	90 lb	0 b	0 l b	J1
	Self Weight				12 PLF				

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

Snow

0

n

Wind

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

0

0





Client: Project: Address:

GREENPARK

ZADORRA ESTATES OSHAWA,ON

WC Input by: Job Name:

Date:

P 230 Level: Ground Floor

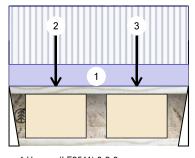
7/7/2023

F2 **AJS 140** 11.875" - PASSED

OF PERMIT PLANS

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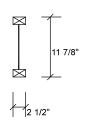




1 Hanger (LF2511) 0-2-0

2 Hanger (LF2511) 0-2-0 2'11 1/2'

2'11 1/2"



Member Information

Туре:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015
Deflection LL:	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)

ction	Live	Dead	Snow	Wind
cal	329	123	0	0
cal	318	119	0	0
iai	318	119	U	

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	449 ft-lb	1'10"	5305 ft-lb	0.085 (8%)	1.25D+1.5L	L
Unbraced	449 ft-lb	1'10"	5305 ft-lb	0.085 (8%)	1.25D+1.5L	L
Shear	642 l b	1 1/4"	2350 lb	0.273 (27%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/20162)	1'6 7/8"	0.092 (L/360)	0.018 (2%)	D	Uniform
LL Defl inch	0.004 (L/7550)	1'6 15/16"	0.092 (L/360)	0.048 (5%)	L	L
TL Defl inch	0.006 (L/5493)	1'6 7/8"	0.138 (L/240)	0.044 (4%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	40%	154 / 494	648	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	39%	149 / 476	625	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 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 2-11-8	0-9-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-9-5		Far Face	103 l b	274 lb	0 l b	0 lb	J4
3	Point	2-1-5		Far Face	106 lb	284 lb	0 lb	0 lb	.14

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

 1. Uoist flanges must not be cut or drilled
 2. Refer to latest copy of the Uoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-pt/ patening details and handling/erection detail
 3. Damaged Diolsts 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.







Client: **GREENPARK**

Project:

Address: **ZADORRA ESTATES** OSHAWA,ON

7/7/2023 WC Input by:

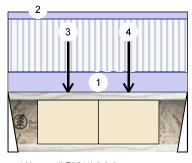
Job Name: P 230 Level: Ground Floor

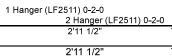
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11.875" - PA

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11 7/8"

	Type:	Girder	Application:	Floor (Residential)
	Plies:	1	Design Method:	LSD
	Moisture Condition:	Dry	Building Code:	NBCC 2015
ı	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	366	187	0	0
2	Vertical	370	195	0	0

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	670 ft-lb	1'5 11/16"	5305 ft-lb	0.126 (13%)	1.25D+1.5L	L
Unbraced	670 ft-lb	1'5 11/16"	5305 ft-lb	0.126 (13%)	1.25D+1.5L	L
Shear	792 lb	2'10 1/4"	2350 lb	0.337 (34%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/10677)	1'6 3/8"	0.092 (L/360)	0.034 (3%)	D	Uniform
LL Defl inch	0.006 (L/5547)	1'5 1/2"	0.092 (L/360)	0.065 (6%)	L	L
TL Defl inch	0.009 (L/3651)	1'5 13/16"	0.138 (L/240)	0.066 (7%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. Re	act D/L I b	Total	Ld. Case	Ld. Comb.
1 -	2.000"	Vert	49%	234 / 550	784	L	1.25D+1.5L
Hanger							
2 -	2.000"	Vert	50%	244 / 555	799	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: 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.



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7	7 If sheathing is not attached to the bottom flange, I	bottom flange must be laterally braced at
	maximum 2' o.c.	

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-11-8	0-9-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 2-11-8		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
3	Point	0-11-14		Near Face	161 l b	325 lb	0 lb	0 l b	J5
4	Point	1-11-14		Near Face	176 l b	322 lb	0 l b	0 lb	J5

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

- Handling & Installation

 1. Uoist flanges must not be cut or drilled
 2. Refer to latest copy of the Uoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-pt/ patening details and handling/erection detail
 3. Damaged Diolsts 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

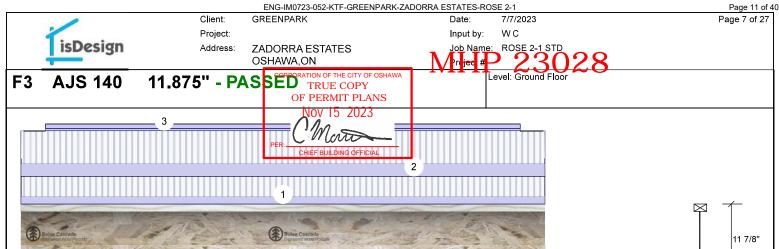
Boise Cascade Wood Products 1111 W. Jefferson St.

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

Kott Inc.







Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: Design Method: LSD 205 Vertical 100 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 205 100 n 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 26% 125 / 308 433 L 1.25D+1.5L

2 - SPF 2.375"

Analysis Results

1 SPF 0-2-6

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	883 ft-lb	4'3 7/8"	5305 ft-lb	0.166 (17%)	1.25D+1.5L	L
Unbraced	883 ft-lb	4'3 7/8"	5305 ft-lb	0.166 (17%)	1.25D+1.5L	L
Shear	420 lb	1 5/8"	2350 lb	0.179 (18%)	1.25D+1.5L	L
Perm Defl in.	0.011 (L/8763)	4'3 7/8"	0.279 (L/360)	0.041 (4%)	D	Uniform
LL Defl inch	0.023 (L/4390)	4'3 7/8"	0.279 (L/360)	0.082 (8%)	L	L
TL Defl inch	0.034 (L/2925)	4'3 7/8"	0.419 (L/240)	0.082 (8%)	D+L	L

8'7 11/16 8'7 11/16'

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 bearings.



125 / 308

433 L

1.25D+1.5L

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 8-7-11	0-5-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 8-7-11	0-8-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-4-14 to 8-2-13		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-4-14 to 8-2-13		Тор	4 PLF	0 PLF	0 PLF	0 PLF	

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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

2 SPF 0-2-6

Vert

26%

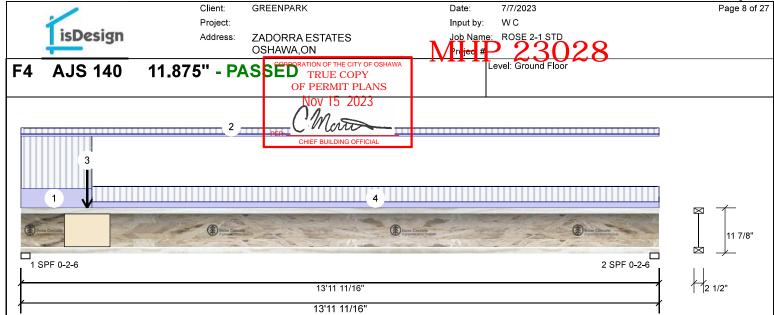
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Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.







Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: Design Method: LSD 202 Vertical 539 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 220 83 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 Dead: 15 PSF Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 253 / 808 1 - SPF 2.375" Vert 63% 1061 L 1.25D+1.5L 2 - SPF 2.375" Vert 26% 103 / 330 433 L 1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1730 ft-lb	5'8 11/16"	5305 ft-lb	0.326 (33%)	1.25D+1.5L	L
Unbraced	1730 ft-lb	5'8 11/16"	5305 ft-lb	0.326 (33%)	1.25D+1.5L	L
Shear	1043 lb	1 5/8"	2350 lb	0.444 (44%)	1.25D+1.5L	L
Perm Defl in.	0.041 (L/3964)	6'7 7/16"	0.457 (L/360)	0.091 (9%)	D	Uniform
LL Defl inch	0.111 (L/1486)	6'7 7/16"	0.457 (L/360)	0.242 (24%)	L	L
TL Defl inch	0.152 (L/1081)	6'7 7/16"	0.685 (L/240)	0.222 (22%)	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 12'6 5/16" 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 1-6-11	1-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 13-11-11	0-2-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-7		Far Face	119 l b	318 lb	0 l b	0 l b	F2
4	Tie-In	1-6-11 to 13-11-11	0-5-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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 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

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



CSD DESIGN



13'11 11/16' 13'11 11/16"

Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: Design Method: LSD 207 Vertical 552 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 221 83 n 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 64% 258 / 828 1086 L 1.25D+1.5L 2 - SPF 2.375" Vert 26% 104 / 332 436 L 1.25D+1.5L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	1749 ft-lb	5'8 1/8"	5305 ft-lb	0.330 (33%)	1.25D+1.5L	L
Unbraced	1749 ft-lb	5'8 1/8"	5305 ft-lb	0.330 (33%)	1.25D+1.5L	L
Shear	1066 lb	1 5/8"	2350 lb	0.454 (45%)	1.25D+1.5L	L
Perm Defl in.	0.042 (L/3923)	6'7 5/16"	0.457 (L/360)	0.092 (9%)	D	Uniform
LL Defl inch	0.112 (L/1470)	6'7 5/16"	0.457 (L/360)	0.245 (24%)	L	L
TL Defl inch	0.154 (L/1069)	6'7 5/16"	0.685 (L/240)	0.224 (22%)	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 12'6 5/16" 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.

	,								
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 13-11-11	0-2-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-6-11	1-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-7		Near Face	123 l b	329 lb	0 lb	0 l b	F2
4	Tie-In	1-6-11 to 13-11-11	0-5-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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 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

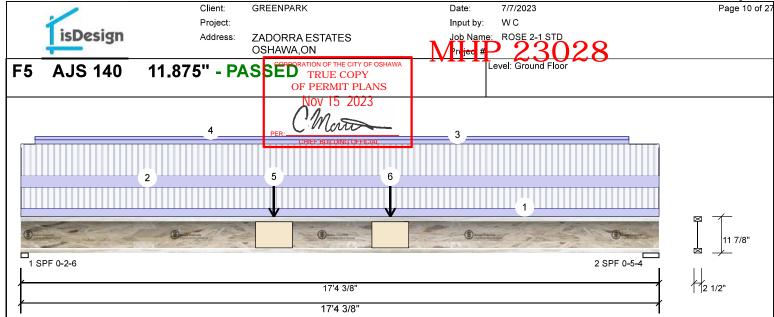
Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

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

Kott Inc.







Member Infor	mation			Unfa	actored Rea	ections U	NP	ATTERNED i l	o (Upli	ift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Liv	е	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	47	2	240		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	48	4	242		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	rings and Fa	actored F	Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir. C	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert (60%	300 / 708	1008	L	1.25D+1.5L
				2 -	SPF 5.250"	Vert :	54%	303 / 725	1028	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4432 ft-lb	8'6 7/8"	5305 ft-lb	0.835 (84%)	1.25D+1.5L	L
Unbraced	4432 ft-lb	8'6 7/8"	5305 ft-lb	0.835 (84%)	1.25D+1.5L	L
Shear	995 lb	1 5/8"	2350 lb	0.423 (42%)	1.25D+1.5L	L
Perm Defl in.	0.188 (L/1074)	8'6 11/16"	0.562 (L/360)	0.335 (34%)	D	Uniform
LL Defl inch	0.368 (L/550)	8'6 11/16"	0.562 (L/360)	0.654 (65%)	L	L
TL Defl inch	0.556 (L/364)	8'6 11/16"	0.843 (L/240)	0.660 (66%)	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 7'3 3/4" 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.

ı	. Bottom nange	made be faterally brace	ou at a maximum	0. 1 0 0, 1 0.0.						
	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Commen
	1	Tie-In	0-0-0 to 17-4-6	0-6-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Tie-In	0-0-0 to 17-4-6	0-9-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	3	Part. Uniform	0-4-9 to 16-6-9		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
	4	Part. Uniform	0-4-9 to 16-6-9		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
	5	Point	6-10-10		Near Face	21 l b	42 lb	0 l b	0 lb	F1
	6	Point	10-0-10		Near Face	21 l b	42 lb	0 l b	0 l b	F1
ı										

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 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 ponding

This design is valid until 4/17/2026

Manufacturer Info

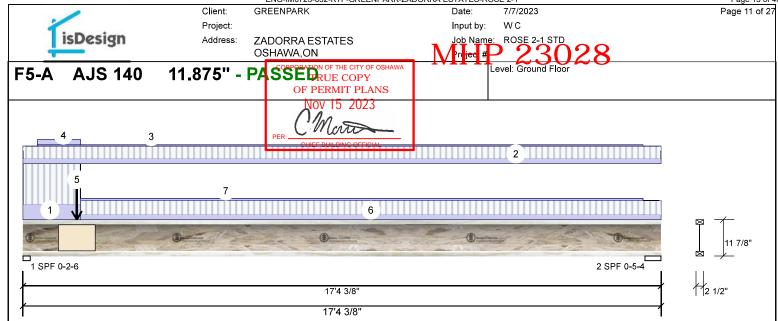
Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

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

Kott Inc.







Member Info	rmation			Unfa	ctored Rea	actions	UNP	ATTERNED I I	b (Up l i	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	•	756	376		0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2015	2	Vertical	;	398	195		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	ring Length	Dir.	Сар.	React D/L I b	Total	Ld. Case	Ld. Comb.
				1 - 8	SPF 2.375"	Vert	95%	470 / 1135	1605	L	1.25D+1.5L
				2 - 9	SPF 5.250"	Vert	44%	244 / 597	841	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3726 ft-lb	7'9 5/8"	5305 ft-lb	0.702 (70%)	1.25D+1.5L	L
Unbraced	3726 ft-lb	7'9 5/8"	5305 ft-lb	0.702 (70%)	1.25D+1.5L	L
Shear	1583 l b	1 5/8"	2350 lb	0.673 (67%)	1.25D+1.5L	L
Perm Defl in	0.160 (L/1268)	8'3 13/16"	0.562 (L/360)	0.284 (28%)	D	Uniform
LL Defl inch	0.321 (L/631)	8'3 7/8"	0.562 (L/360)	0.571 (57%)	L	L
TL Defl inch	0.480 (L/421)	8'3 7/8"	0.843 (L/240)	0.570 (57%)	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 15'10 13/16" o.c.



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	1 Bottom Hange	made be faterally br	acca at a maximum	01 10 10 10, 10	0.0.					
	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Tie-In	0-0-0 to 1-6-13	1-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
;	2	Tie-In	0-0-0 to 17-4-6	0-5-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
;	3	Part. Uniform	0-4-10 to 16-10-8		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
	4	Part. Uniform	0-4-11 to 1-6-13		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
,	5	Point	1-5-9		Far Face	187 l b	366 lb	0 l b	0 lb	F2
(6	Tie-In	1-6-13 to 17-4-6	0-6-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	7	Part. Uniform	1-6-13 to 16-10-8		Тор	3 PLF	0 PLF	0 PLF	0 PLF	

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 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 ponding

This design is valid until 4/17/2026

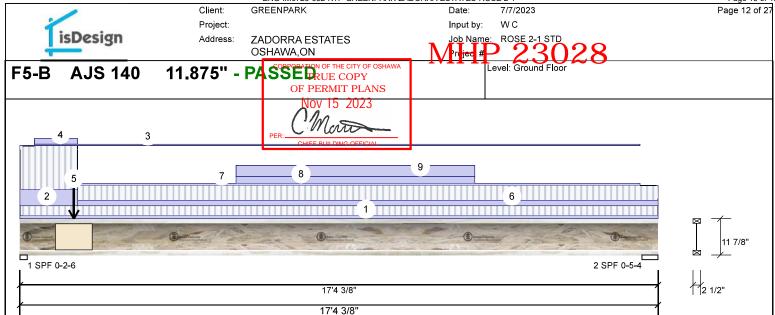
Manufacturer Info

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

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







Member Inform	nation			Unfactored Reactions UNPATTERNED lb (Uplift)							
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind		
Plies:	1	Design Method:	LSD	1	Vertical	704	441	0	0		
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical	340	264	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	ring Length	Dir. Cap.	React D/L Ib	Total Ld. Case	Ld. Comb.		
				1 - 9	SPF 2.375"	Vert 95%	551 / 1056	1607 L	1.25D+1.5L		
				2 - 9	SPF 5.250"	Vert 44%	330 / 510	840 L	1.25D+1.5L		

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3974 ft-lb	8' 3/8"	5305 ft-lb	0.749 (75%)	1.25D+1.5L	L
Unbraced	3974 ft-lb	8' 3/8"	5305 ft-lb	0.749 (75%)	1.25D+1.5L	L
Shear	1586 lb	1 5/8"	2350 lb	0.675 (67%)	1.25D+1.5L	L
Perm Defl in	0.240 (L/843)	8'5 5/8"	0.562 (L/360)	0.427 (43%)	D	Uniform
LL Defl inch	0.279 (L/725)	8'3 3/8"	0.562 (L/360)	0.497 (50%)	L	L
TL Defl inch	0.519 (L/390)	8'4 7/16"	0.843 (L/240)	0.616 (62%)	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 15'10 13/16" 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.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 17-4-6	0-4-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-6-13	1-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-4-11 to 16-10-8		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-4-11 to 1-6-13		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-5-9		Near Face	195 lb	370 lb	0 lb	0 lb	F2
6	Tie-In	1-6-13 to 17-4-6	0-6-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	1-6-13 to 16-10-8		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
Continued on	page 2								

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

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

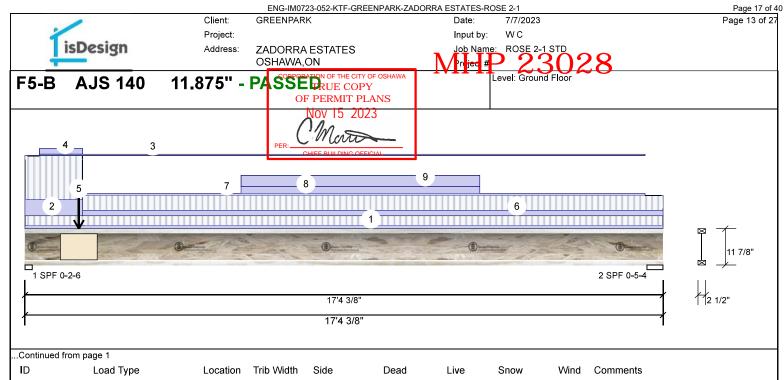
(800) 232-0788 www.bc.com CCMC: 12787

3228 Moodie Dr, Ottawa, Ontario



613-838-2775 / 905-642-4400





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
8	Part. Uniform	5-10-9 to 12-4-9		Тор	10 PLF	0 PLF	0 PLF	0 PLF	
9	Part. Uniform	5-10-9 to 12-4-9		Тор	16 PLF	0 PLF	0 PLF	0 PLF	



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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 Lioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-pty 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 ponding

This design is valid until 4/17/2026

Manufacturer Info

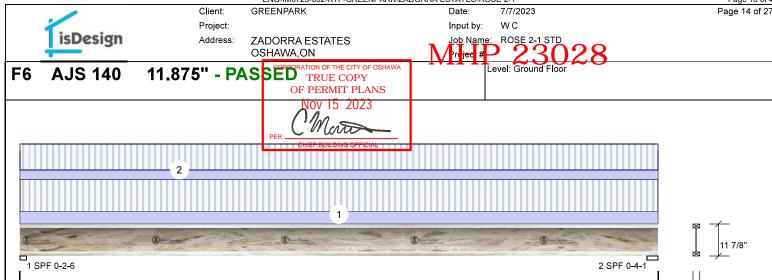
Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

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

Kott Inc.







19'8 9/16' 19'8 9/16'

Member Info	rmation			Unfa	actored Rea	actions UNF	PATTERNED I	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	542	203	0	0
Deflection LL: 360		Building Code:			Vertical	550	206	0	0
			OBC 2012(2020 Update)						
		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 Ld. Case	Ld. Comb.
				1 - 3	SPF 2.375"	Vert 63%	6 254 / 813	1067 L	1.25D+1.5L
				2 - :	SPF 4.070"	Vert 57%	6 258 / 824	1082 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5076 ft-lb	9'9 7/16"	5305 ft-lb	0.957 (96%)	1.25D+1.5L	L
Unbraced	5076 ft-lb	9'9 7/16"	5305 ft-lb	0.957 (96%)	1.25D+1.5L	L
Shear	1052 lb	19'5 1/4"	2350 lb	0.448 (45%)	1.25D+1.5L	L
Perm Defl in.	0.223 (L/1041)	9'9 1/2"	0.643 (L/360)	0.346 (35%)	D	Uniform
LL Defl inch	0.593 (L/390)	9'9 1/2"	0.643 (L/360)	0.922 (92%)	L	L
TL Defl inch	0.816 (L/284)	9'9 1/2"	0.965 (L/240)	0.846 (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 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum

4 Bottom flange	must be laterally brace	ed at bearings.			USED IN THE	DESIGN C	F THIS COMPO		
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 19-8-9	0-9-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 19-8-9	0-7-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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
 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



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 PONENT.

Manufacturer Info

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

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

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







Client:

GREENPARK Project:

ZADORRA ESTATES Address: OSHAWA,ON

7/7/2023 WC Input by:

Job Name: ROSE 2-1 STD

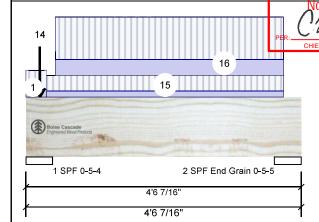
Versa-Lam LVL 2.1E 3100 SP F8

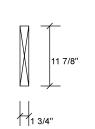
1.750"X 11.875" OF PERMIT PLANS

15 2023

Projec # PASSED

Level: Ground Floor





Member Information

Application: Floor (Residential) Type: Plies: 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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	329	173	0	0
2	Vertical	136	65	0	0

Analysis Results

Dead:

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	255 ft-lb	2'3 3/16"	17696 ft-lb	0.014 (1%)	1.25D+1.5L	L
Unbraced	255 ft-lb	2'3 3/16"	17696 ft-lb	0.014 (1%)	1.25D+1.5L	L
Shear	127 l b	1'5 1/8"	6608 lb	0.019 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/143359)	2'3 1/4"	0.126 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/66651)	2'3 1/4"	0.126 (L/360)	0.005 (1%)	L	L
TL Defl inch	0.001 (L/45498)	2'3 1/4"	0.189 (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 - SPF	5.250"	Vert	13%	216 / 494	710	L	1.25D+1.5L
2 - SPF End Grain	5.313"	Vert	3%	81 / 204	285	L	1.25D+1.5L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 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 Girders are designed to be supported on the bottom edge only.
- 4 Top must be continuously laterally braced.
- 5 Bottom must be laterally braced at bearings.

15 PSF



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.

5 Dottom must i	be laterally braced at be	arings.								
ID	D Load Type Location		Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 0-4-1	0-6-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
3	Point	0-2-12		Тор	1 l b	2 lb	0 lb	0 lb	J8	
	Bearing Length	0-5-8								
4	Point	0-2-12		Top	4 lb	11 lb	0 lb	0 lb	J7	

Continued on page 2...

Notes

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

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

Handling & Installation

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

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

www.bc.com CCMC: 12472

Kott Inc.







Continued	from page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	Bearing Length	0-5-8							
5	Point	0-2-12		Тор	2 l b	0 l b	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
7	Point	0-2-12		Тор	6 lb	16 l b	0 lb	0 lb	J8
	Bearing Length	0-5-8							
8	Point	0-2-12		Тор	25 lb	67 l b	0 lb	0 lb	J7
	Bearing Length	0-5-8							
9	Point	0-2-12		Тор	15 lb	0 lb	0 lb	0 l b	Wall Self Weight
	Bearing Length	0-5-8							
11	Point	0-2-12		Тор	7 l b	19 l b	0 lb	0 lb	J8
	Bearing Length	0-5-8							
12	Point	0-2-12		Тор	30 lb	81 l b	0 lb	0 lb	J7
	Bearing Length	0-5-8							
14	Point	0-2-12		Тор	19 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
15	Tie-In	0-4-1 to 4-2-15	0-5-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
16	Part. Uniform	0-5-13 to 4-2-15		Тор	19 PLF	50 PLF	0 PLF	0 PLF	
	Self Weight				6 PLF				



JULY 11, 2023

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1 SPF 0-5-4

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

Handling & Installation

2 SPF End Grain 0-5-5

4'6 7/16' 4'6 7/16"

Handling & Installation

1. IVI 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

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







Member Information Dra Direction 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

4'10 1/16' 4'10 1/16" 2 SPF 0-3-8

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1752	1137	417	0
2	Vertical	887	362	1	0

Bearings and Factored Reactions

Bearing Le	ength D	ir. Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF 3.9	500" V	ert 59%	1421 / 3045	4467	L	1.25D+1.5L +S
2 - SPF 3.5	500" V	ert 24%	452 / 1331	1784	L	1.25D+1.5L +S

Analysis Results

1 SPF 0-3-8

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1931 ft-lb	2'5 3/8"	35392 ft-lb	0.055 (5%)	1.25D+1.5L +S	L
Unbraced	1931 ft-lb	2'5 3/8"	35392 ft-lb	0.055 (5%)	1.25D+1.5L +S	L
Shear	2368 lb	3'6 11/16"	13217 l b	0.179 (18%)	1.25D+1.5L +S	L
Perm Defl in.	0.001 (L/36710)	2'5 3/16"	0.146 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.004 (L/14924)	2'5 3/16"	0.146 (L/360)	0.024 (2%)	L+0.5S	L
TL Defl inch	0.005 (L/10610)	2'5 3/16"	0.219 (L/240)	0.023 (2%)	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 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 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 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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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

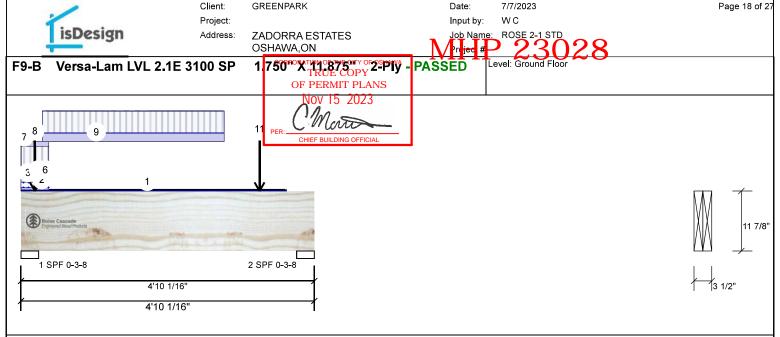
Manufacturer Info Boise Cascade Wood Products 1111 W. Jefferson St.

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

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







I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 4-4-9	0-6-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 0-5-8		Тор	30 PLF	0 PLF	86 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 0-5-8		Тор	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
5	Part. Uniform	0-0-0 to 0-5-8		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
6	Part. Uniform	0-0-0 to 0-5-8		Тор	148 PLF	395 PLF	0 PLF	0 PLF	J7
7	Part. Uniform	0-0-0 to 0-5-8		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Point	0-2-12		Тор	662 l b	752 l b	378 l b	0 l b	B9
	Bearing Length	0-5-8							
9	Part. Uniform	0-4-3 to 3-4-3		Near Face	137 PLF	365 PLF	0 PLF	0 PLF	
11	Point	3-11-3		Near Face	193 l b	516 l b	0 l b	0 lb	J7
	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. 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

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







5

Client:

Project:

ZADORRA ESTATES Address: OSHAWA,ON

GREENPARK

7/7/2023 WC Input by:

ROSE 2-1 STD Job Name: ²rdjed # - PASSED Level: Ground Floor

Versa-Lam LVL 2.1E 3100 SP

1.750°~X_R11-875° *2*PI

OF PERMIT PLANS 15 2023





3 2 1 1 SPF End Grain 0-3-0 2 SPF End Grain 0-3-0 3'2' 3'2'

Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

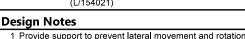
Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	46	171	0	0
2	Vertical	46	171	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	174 ft-lb	1'7"	25128 ft-lb	0.007 (1%)	1.25D+1.5L	L
Unbraced	174 ft-lb	1'7"	25128 ft-lb	0.007 (1%)	1.25D+1.5L	L
Shear	188 l b	1'11 1/8"	9384 lb	0.020 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/195443)	1'7"	0.093 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/726735)	1'7"	0.093 (L/360)	0.000 (0%)	L	L
TL Defl inch	0.000 (1/154021)	1'7"	0.140 (L/240)	0.002 (0%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	4%	213 / 69	282	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	4%	213 / 69	282	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 continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.

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 3-2-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-2-0		Near Face	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 3-2-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Near Face	11 PLF	29 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

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

Kott Inc.

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



Page 20 of 27



Client:

Project:

GREENPARK

Input by:

7/7/2023 WC

Address: **ZADORRA ESTATES** OSHAWA,ON

> 1.750° XN111875° °2ºPI

Job Name: ROSE 2-1 STD Project #P 230

- PASSED Level: Ground Floor

OF PERMIT PLANS

5 3 2 1

2 SPF End Grain 0-3-0

Versa-Lam LVL 2.1E 3100 SP

15 2023

11 7/8'

..Continued from page 1

1 SPF End Grain 0-3-0

3'2' 3'2'

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	End	3-2-0			11 PLF	29 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 3-2-0	١	Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight

12 PLF 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

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

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



Page 1 of 7

isDesign

Client: Project: Address:

GREENPARK

ZADORRA ESTATES OSHAWA,ON

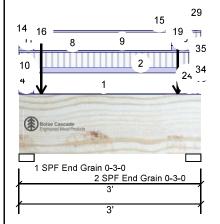
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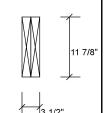
Job Name: ROSE 2-1 DC Projec #

Versa-Lam LVL 2.1E 3100 SP

- PASSED Level: Ground Floor 1.750°~X_R11-875° *2*PI OF PERMIT PLANS

15 2023





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	1189	839	259	0
2	Vertical	1271	870	259	0

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1060 ft-lb	1'6 1/4"	35392 ft-lb	0.030 (3%)	1.25D+1.5L +S	L
Unbraced	1060 ft-lb	1'6 1/4"	35392 ft-lb	0.030 (3%)	1.25D+1.5L +S	L
Shear	1500 lb	1'2 7/8"	13217 lb	0.114 (11%)	1.25D+1.5L +S	L
Perm Defl in.	0.000 (L/71399)	1'6 1/16"	0.088 (L/360)	0.005 (1%)	D	Uniform
LL Defl inch	0.001 (L/44580)	1'6 1/8"	0.088 (L/360)	0.008 (1%)	L+0.5S	L
TL Defl inch	0.001 (L/27444)	1'6 1/16"	0.131 (L/240)	0.009 (1%)	D+L+0.5S	L

Bearings and Factored Reactions

Bearing L	_ength	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF 3 End Grain	3.000"	Vert	28%	1049 / 2043	3091	L	1.25D+1.5L +S
2 - SPF 3 End Grain	3.000"	Vert	30%	1087 / 2166	3253	L	1.25D+1.5L +S

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 3.
- 2 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 3.
- 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 have sheathing attached or be continuously braced.
- 9 Lateral slenderness ratio based on full section width.



JULY 11, 2023

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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

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

Manufacturer Info Kott Inc.

Boise Cascade Wood Products

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





™2™PI/



8

1 SPF End Grain 0-3-0

14 16 =

10

Client:

29

35

34

24

15

- 19

GREENPARK

Input by:

7/7/2023 WC

Page 2 of 7

Project: Address:

ZADORRA ESTATES OSHAWA,ON

Job Name: ROSE 2-1 DC
Prijed #P 230
- PASSED Level: Ground Floor

Versa-Lam LVL 2.1E 3100 SP FH5

9

1

2

2 SPF End Grain 0-3-0

1.750° XN111875° OF PERMIT PLANS



11 7/8"

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tapered Start	0-0-0		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	2-5-2			0 PLF	1 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 2-9-10		Near Face	147 PLF	392 PLF	0 PLF	0 PLF	J7
3	Part. Uniform	0-0-0 to 0-2-15		Near Face	30 PLF	0 PLF	86 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 0-2-15		Near Face	74 PLF	197 PLF	0 PLF	0 PLF	J7
6	Part. Uniform	0-0-0 to 0-2-15		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
7	Part. Uniform	0-0-0 to 0-2-15		Near Face	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Part, Uniform	0-0-0 to 3-0-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Part. Uniform	0-0-0 to 3-0-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
10	Part. Uniform	0-0-0 to 0-2-15		Тор	30 PLF	0 PLF	86 PLF	0 PLF	
11	Part. Uniform	0-0-0 to 0-2-15		Тор	74 PLF	197 PLF	0 PLF	0 PLF	J7
13	Part. Uniform	0-0-0 to 0-2-15		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
14	Part. Uniform	0-0-0 to 0-2-15		Тор	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
15	Part. Uniform	0-0-0 to 3-0-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
16	Point	0-4-7		Тор	397 lb	495 lb	216 lb	0 lb	Header Column Header Column
	Bearing Length	0-3-8							
17	Tapered Start	2-5-2		Near Face	2 PLF	5 PLF	0 PLF	0 PLF	
	End	3-0-0			1 PLF	3 PLF	0 PLF	0 PLF	
18	Part. Uniform	2-6-3 to 3-0-0		Near Face	131 PLF	349 PLF	0 PLF	0 PLF	J7
19	Point	2-7-7		Тор	397 b	495 lb	216 lb	0 l b	Header Column Header Column
	Bearing Length	0-3-8							
21	Part. Uniform	2-8-15 to 3-0-0		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
22	Part. Uniform	2-8-15 to 3-0-0		Near Face	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
23	Part. Uniform	2-8-15 to 3-0-0		Near Face	30 PLF	0 PLF	86 PLF	0 PLF	
24	Part. Uniform	2-8-15 to 3-0-0		Near Face	74 PLF	197 PLF	0 PLF	0 PLF	J7
26	Part. Uniform	2-8-15 to 3-0-0		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
27	Part. Uniform	2-8-15 to 3-0-0		Тор	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
28	Part. Uniform	2-8-15 to 3-0-0		Тор	30 PLF	0 PLF	86 PLF	0 PLF	
ontinued on p	age 3								

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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

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







Client: **GREENPARK**

Address:

Project:

7/7/2023 Input by:

 $W\, C$

Page 3 of 7

Versa-Lam LVL 2.1E 3100 SP FH5

OSHAWA,ON 1.750^mX_R111875^{of} °2ºPI OF PERMIT PLANS

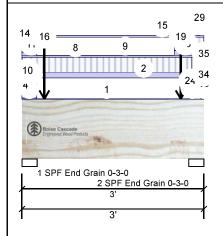
Job Name: ROSE 2-1 DC

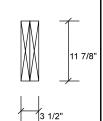
Project # 230

- PASSED Level: Ground Floor

15 2023

ZADORRA ESTATES





Continued fr	rom page 2								
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
29	Part. Uniform	2-8-15 to 3-0-0		Тор	74 PLF	197 PLF	0 PLF	0 PLF	J7
30	Tapered Start	3-0-0		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	3-0-0			0 PLF	1 PLF	0 PLF	0 PLF	
31	Part. Uniform	3-0-0 to 3-0-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
32	Part. Uniform	3-0-0 to 3-0-0		Near Face	90 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
33	Part. Uniform	3-0-0 to 3-0-0		Near Face	60 PLF	0 PLF	173 PLF	0 PLF	
34	Part. Uniform	3-0-0 to 3-0-0		Near Face	148 PLF	395 PLF	0 PLF	0 PLF	J7
35	Part. Uniform	3-0-0 to 3-0-0		Near Face	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	Self Weight				12 PLF				



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Dry service conditions, unless noted otherwise
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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

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Brg

1

2

Direction

Vertical

Vertica

Bearing Length

1 - SPF 3.000"

2 - SPF 3.000"

End Grain

End

11 7/8

Wind

Ld. Comb.

1.25D+1.5L +S

1.25D+1.5L

0

0

Page 4 of 7



Client: **GREENPARK**

Project:

ZADORRA ESTATES Address: OSHAWA,ON

7/7/2023 Input by:

W C Job Name: ROSE 2-1 DC Projec #

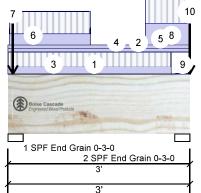
Level: Ground Floor

Versa-Lam LVL 2.1E 3100 SP

OF PERMIT PLANS

- PASSED 15 2023





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 15 PSF Dead:

Analysis Results

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	679 ft-lb	1'3 15/16"	35392 ft-lb	0.019 (2%)	1.25D+1.5L	L
Unbraced	679 ft-lb	1'3 15/16"	35392 ft-lb	0.019 (2%)	1.25D+1.5L	L
Shear	1209 l b	1'9 1/8"	13217 l b	0.092 (9%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/96263)	1'5 3/4"	0.088 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch	0.000 (L/78695)	1'5 3/8"	0.088 (L/360)	0.005 (0%)	L+0.5S	L
TL Defl inch	0.001 (L/43304)	1'5 9/16"	0.131 (L/240)	0.006 (1%)	D+L+0.5S	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.

Grain PROFESSION

31%

Unfactored Reactions UNPATTERNED lb (Uplift)

Dead

980

1073

Snow

357

481

Total Ld. Case

3249 L

3409 L

Live

1111

1058

Bearings and Factored Reactions

Dir.

Vert

Vert

I.MATIJEVIC 100528832 NCE OF

Cap. React D/L lb

1226 / 2023

1341 / 2068

JULY 11, 2023

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tapered Start	0-0-0		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	2-9-3			0 PLF	1 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 3-0-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
3	Part. Uniform	0-0-0 to 2-8-5		Near Face	84 PLF	172 PLF	0 PLF	0 PLF	J6
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

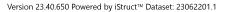
6. For flat roofs provide proper drainage to prevent ponding

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 5 of 7



Client: Project: Address:

GREENPARK

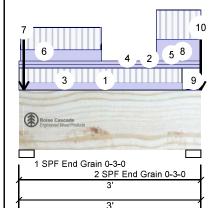
ZADORRA ESTATES

7/7/2023 Input by:

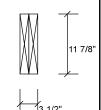
 $W\, C$ Job Name: ROSE 2-1 DC Prijec #P 2.30
SED Level: Ground Floor

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ON 1.750 XXC PECOPY 2-Ply - PASSED



OF PERMIT PLANS 15 2023



.Continued	from page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Part. Uniform	0-0-0 to 3-0-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
5	Part. Uniform	0-0-0 to 3-0-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Part. Uniform	0-0-5 to 1-4-5		Near Face	130 PLF	265 PLF	0 PLF	0 PLF	J6
7	Point	0-1-0		Тор	557 lb	548 lb	357 lb	0 lb	Header Column Header Column
	Bearing Length	0-3-8							
8	Part. Uniform	2-3-3 to 3-0-0		Near Face	253 PLF	344 PLF	0 PLF	0 PLF	J6
9	Tapered Start	2-9-3		Near Face	2 PLF	5 PLF	0 PLF	0 PLF	
	End	3-0-0			1 PLF	4 PLF	0 PLF	0 PLF	
10	Point	3-0-0		Тор	623 l b	548 lb	481 b	0 b	Header Column Header Column
	Bearing Length	0-3-8							
	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-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

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







Client: Project: Address:

GREENPARK

ZADORRA ESTATES OSHAWA,ON

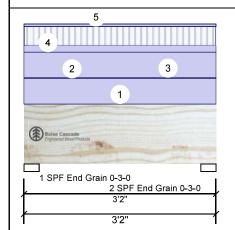
7/7/2023 WC Input by:

ROSE 2-1 DC Job Name: Projec # Level: Ground Floor

Versa-Lam LVL 2.1E 3100 SP

1.750 X RUE 875 OF Y *2'-12'1v - PASSED OF PERMIT PLANS

15 2023



11 7/8'

٨	1	em	ber	Info	rmation

Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	•	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360		OBC 2012(2020 Opuate)
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	46	171	0	0
2	Vertical	46	171	0	0

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	174 ft-lb	1'7"	25128 ft-lb	0.007 (1%)	1.25D+1.5L	L
Unbraced	174 ft-lb	1'7"	25128 ft-lb	0.007 (1%)	1.25D+1.5L	L
Shear	188 l b	1'11 1/8"	9384 lb	0.020 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/195443)	1'7"	0.093 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/726735)	1'7"	0.093 (L/360)	0.000 (0%)	L	L
TL Defl inch	0.000 (L/154021)	1'7"	0.140 (L/240)	0.002 (0%)	D+L	L

Bearings and Factored Reactions

Dearings	, una ra	ctoica	itcut				
Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	4%	213 / 69	282	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	4%	213 / 69	282	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.
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- 6 Bottom must have sheathing attached or be continuously braced.

7 Lateral slenderness ratio based on full section width.

Tapered Start



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ID	Load Type	Location Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-2-0	Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part, Uniform	0-0-0 to 3-2-0	Near Face	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 3-2-0	Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight

Near Face

Continued on page 2...

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Dry service conditions, unless noted otherwise
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Handling & Installation

0-0-0

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29 PLF

11 PLF

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

0 PLF

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

0 PLF





Client:

Address:

GREENPARK Project:

7/7/2023 Input by:

WC

Page 7 of 7

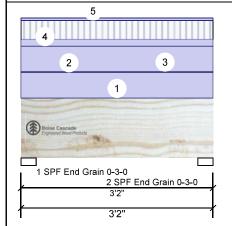
Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ON 1.750 X NOT 1875 OF ⁵²-121v - PASSED

ROSE 2-1 DC Job Name: P 230 Level: Ground Floor rrijed #P

OF PERMIT PLANS 15 2023

ZADORRA ESTATES



11 7/8'

.Continued from page 1

ID Location Trib Width Load Type Side Live Snow Wind Comments Dead 3-2-0 11 PLF 29 PLF 0 PLF 0 PLF

5 Part. Uniform 0-0-0 to 3-2-0 Near Face 4 PLF 0 PLF 0 PLF 0 PLF Rim Board Self Weight

> Self Weight 12 PLF



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www.bc.com CCMC: 12472

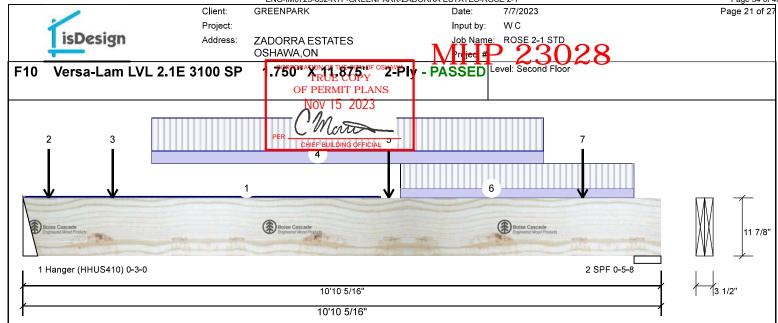
Manufacturer Info

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

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







Member Inforn	nation				Unfa	actored Re	action	s UNPA	ATTERNED II	o (Uplift)	
Туре:	Girder		Application:	Floor (Residential)	Brg	Direction		Live	Dead	Snow	Wind
Plies:	2		Design Method:	LSD	1	Vertical		2501	1044	0	0
Moisture Condition:	Dry		Building Code:	NBCC 2015	2	Vertical		3225	1335	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	actore	ed Reac	tions		
Dead:	15 PSF				Bea	aring Length	Dir.	Cap.	React D/L Ib	Total Ld. Ca	se Ld. Comb.
					1 - Har	3.000" nger	Vert	44%	1305 / 3751	5056 L	1.25D+1.5L
Analysis Results	5				2 -	SPF 5.500"	Vert	55%	1669 / 4837	6506 L	1.25D+1.5L
Analysis Acti	ual	Location Al	llowed Capac	ity Comb. Case							

Moment 18227 ft-lb 6'2 3/4" 35392 ft-lb 0.515 (52%) 1.25D+1.5L L Unbraced 18227 ft-lb 6'2 3/4" 35392 ft-lb 0.515 (52%) 1.25D+1.5L L 6033 lb 0.456 (46%) 1.25D+1.5L L 9'4 15/16" 13217 lb Shear Perm Defl in. 0.065 (L/1895) 5'6 1/16" 0.342 (L/360) 0.190 (19%) D Uniform LL Defl inch 0.155 (L/793) 5'6 1/16" 0.342 (L/360) 0.454 (45%) L L TL Defl inch 0.221 (L/559) 5'6 1/16" 0.514 (L/240) 0.429 (43%) D+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 have sheathing attached or be continuously braced.
- 9 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.

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 6-1-0	0-3-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-5-5		Near Face	95 l b	253 lb	0 lb	0 lb	J6
3	Point	1-6-5		Near Face	145 l b	386 lb	0 l b	0 lb	J6
4	Part. Uniform	2-2-5 to 8-10-5		Near Face	120 PLF	320 PLF	0 PLF	0 PLF	

Continued on page 2...

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

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

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

www.bc.com CCMC: 12472

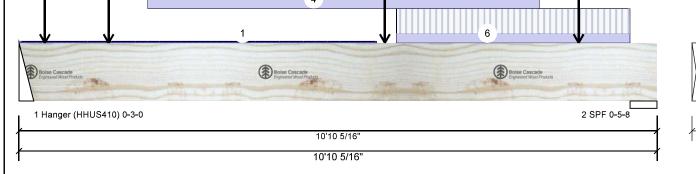
Manufacturer Info

3228 Moodie Dr, Ottawa, Ontario

613-838-2775 / 905-642-4400







CHIEF BUILDING OFFICIAL

Continued	from	page 1	

ID	Load Type	Location Trib Width	n Side	Dead	Live	Snow	Wind	Comments
5	Point	6-2-12	Far Face	660 lb	1485 lb	0 lb	0 l b	F12
6	Part. Uniform	6-5-1 to 10-4-12	Тор	90 PLF	240 PLF	0 PLF	0 PLF	
7	Point	9-6-5	Near Face	167 l b	445 lb	0 lb	0 l b	J6
	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. 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

Manufacturer Info

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

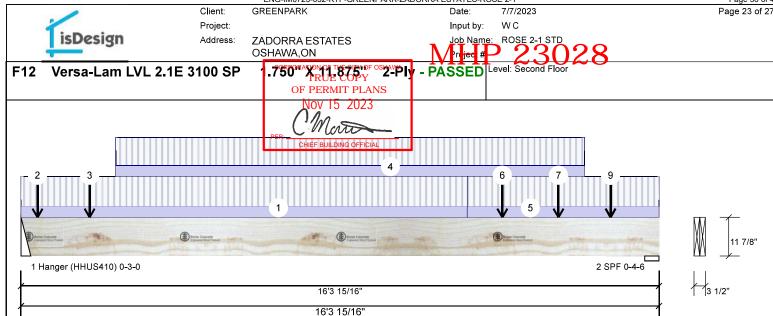
(800) 232-0788 www.bc.com CCMC: 12472

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



11 7/8"





Member Inforr	nation			Unfactored Reactions UNPATTERNED lb (Uplift)							
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	₋ive	Dead	Sı	now	Wind
Plies:	2	Design Method:	LSD	1	Vertical	1	485	660		0	0
Moisture Condition: Dry		Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	1	836	807		0	0
Deflection LL:	360		` ' '								
Deflection TL:	240	Load Sharing:	No								
Importance: Normai - II		Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Beari	ings and Fa	actored	l Reac	tions			
Dead:	15 PSF			Bear	ring Length	Dir.	Сар.	React D/L Ib	Total Lo	d. Case	Ld. Comb.
				1 - Han	3.000" ger	Vert	27%	824 / 2227	3051 L		1.25D+1.5L
Analysis Result	alysis Results					Vert	40%	1008 / 2753	3762 L		1.25D+1.5L

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12579 ft-lb	9' 5/8"	35392 ft-lb	0.355 (36%)	1.25D+1.5L	L
Unbraced	12579 ft-lb	9' 5/8"	35392 ft-lb	0.355 (36%)	1.25D+1.5L	L
Shear	3547 l b	14'11 11/16"	13217 l b	0.268 (27%)	1.25D+1.5L	L
Perm Defl in.	0.122 (L/1555)	8'3 5/8"	0.528 (L/360)	0.231 (23%)	D	Uniform
LL Defl inch	0.275 (L/691)	8'3 3/4"	0.528 (L/360)	0.521 (52%)	L	L
TL Defl inch	0.397 (L/478)	8'3 11/16"	0.792 (L/240)	0.502 (50%)	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 have sheathing attached or be continuously braced.
- 9 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 11-5-1	1-11-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-5-1		Far Face	43 lb	116 l b	0 lb	0 l b	J2
3	Point	1-9-1		Far Face	62 lb	165 l b	0 l b	0 l b	J2
4	Part. Uniform	2-5-1 to 14-5-1		Far Face	28 PLF	74 PLF	0 PLF	0 PLF	

Continued on page 2...

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

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

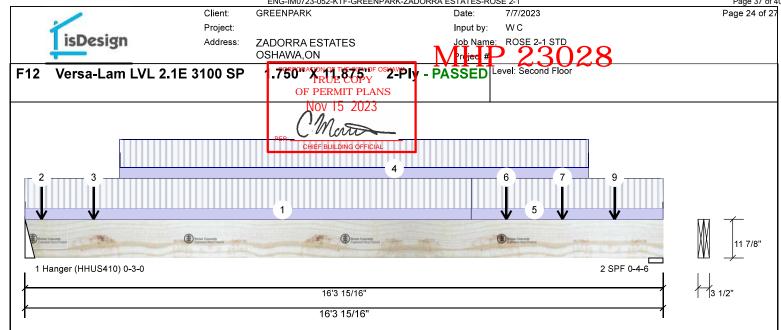
6. For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info

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





.Continued from page 1									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Tie-In	11-5-1 to 16-3-15	1-11-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Point	12-3-13		Near Face	236 lb	563 lb	0 lb	0 l b	F9
7	Point	13-9-1		Near Face	44 lb	116 l b	0 lb	0 l b	J1
8	Point	15-1-1		Far Face	34 lb	90 l b	0 lb	0 l b	J8
9	Point	15-1-1		Near Face	38 lb	102 l b	0 lb	0 l b	J1
	Self Weight				12 PLF				



JULY 11, 2023

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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-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 **fl**at roofs provide proper drainage to prevent ponding

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Manufacturer Info

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







Client: Project:

Address:

GREENPARK

7/7/2023 W C Input by:

ROSE 2-1 STD Job Name:

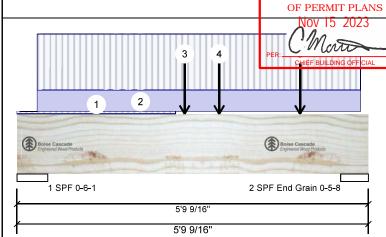
Versa-Lam LVL 2.1E 3100 SP

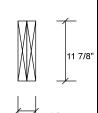
OSHAWA,ON 1.750 XTRUE 5 Y OF 2-191y

ZADORRA ESTATES

Projec.# **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 lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	2299	953	0	0
2	Vertical	2316	952	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8676 ft-lb	2'9 3/16"	35392 ft-lb	0.245 (25%)	1.25D+1.5L	L
Unbraced	8676 ft-lb	2'9 3/16"	35392 ft-lb	0.245 (25%)	1.25D+1.5L	L
Shear	4483 lb	1'5 15/16"	13217 l b	0.339 (34%)	1.25D+1.5L	L
Perm Defl in.	0.007 (L/8449)	2'10 1/4"	0.165 (L/360)	0.043 (4%)	D	Uniform
LL Defl inch	0.017 (L/3490)	2'10 1/4"	0.165 (L/360)	0.103 (10%)	L	L
TL Defl inch	0.024 (L/2470)	2'10 1/4"	0.248 (L/240)	0.097 (10%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	6.080"	Vert	35%	1191 / 3449	4640	L	1.25D+1.5L
2 - SPF End Grain	5.500"	Vert	23%	1190 / 3473	4664	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 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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,	/ Lateral Steriderness ratio based on ruli section within									
I)	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1		Tie-In	0-0-0 to 2-7-7	0-3-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2		Part. Uniform	0-4-0 to 5-8-0		Far Face	126 PLF	336 PLF	0 PLF	0 PLF	
3		Point	2-9-3		Near Face	1044 l b	2501 lb	0 lb	0 lb	F10
4		Point	3-4-0		Near Face	43 lb	116 l b	0 lb	0 lb	J2
5		Point	4-8-0		Near Face	66 lb	175 l b	0 lb	0 lb	J2
		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

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

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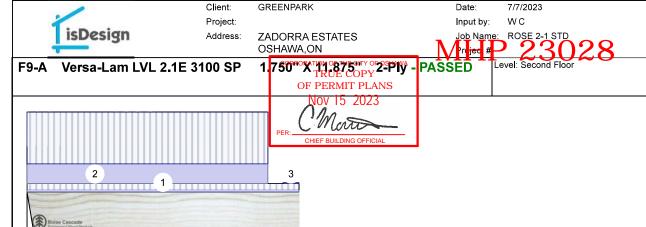
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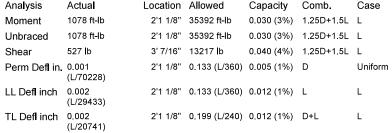


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Page 26 of 27



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Type Brg Direction Live Dead Snow Wind Plies 2 Design Method: LSD 236 Vertical 563 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 520 224 n 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. 2.000" Vert 15% 295 / 845 1140 L 1.25D+1.5L Hanger Analysis Results 2 - SPF 5.500" Vert 9% 280 / 780 1060 L 1.25D+1.5L



2 SPF 0-5-8

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.

1 Hanger (LF3511) 0-2-0

4'5 13/16' 4'5 13/16'

- 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 bearings.
- 9 Lateral slenderness ratio based on full section width.



JULY 11, 2023

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

Handling & Installation

CIVL 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

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Page 27 of 27



Client: Project: Address:

GREENPARK

Input by:

7/7/2023 $W\, C$

Job Name:

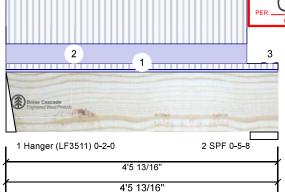
Versa-Lam LVL 2.1E 3100 SP

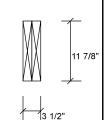
OSHAWA,ON 1.750°°X TRUE COPY PASSED OF PERMIT PLANS

P 230
Level: Second Floor Projec #

ov 15 2023

ZADORRA ESTATES





I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 4-5-13	0-8-10 to 0-8-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 3-11-11		Тор	90 PLF	240 PLF	0 PLF	0 PLF	
3	Part. Uniform	4-2-11 to 4-5-13		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
	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

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.



