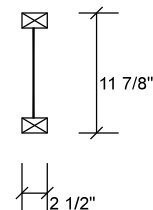


Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

PER: C. M. ...
F1 **AJS 140** **11.875" - PASSED**

Level: Ground Floor



1 Hanger (LF2511) 0-2-0
2 SPF 0-2-6
1'9"
1'9"

Unfactored Reactions UNPATTERNED lb (Uplift)

Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind		
Plies:	1	Design Method:	LSD	1	Vertical	199	74	0	0		
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	200	75	0	0		
Deflection LL:	360	Load Sharing:	No	Bearings and Factored Reactions							
Deflection TL:	240	Deck:	Not Checked								
Importance:	Normal - II	Vibration:	Not Checked								
General Load											
Floor Live:	40 PSF										
Dead:	15 PSF										
				Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
				1 - Hanger	2.000"	Vert	24%	93 / 298	391	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	255 ft-lb	10 5/16"	5305 ft-lb	0.048 (5%)	1.25D+1.5L	L
Unbraced	255 ft-lb	10 5/16"	5305 ft-lb	0.048 (5%)	1.25D+1.5L	L
Shear	379 lb	1 1/4"	2350 lb	0.161 (16%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/24043)	10 3/8"	0.050 (L/360)	0.015 (1%)	D	Uniform
LL Defl inch	0.002 (L/8981)	10 3/8"	0.050 (L/360)	0.040 (4%)	L	L
TL Defl inch	0.003 (L/6539)	10 3/8"	0.076 (L/240)	0.037 (4%)	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: 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.



JULY 10, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-9-0	1-5-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-10-5		Near Face	112 lb	300 lb	0 lb	0 lb	J5

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.

Lumber

1. Dry service conditions, unless noted otherwise
2. Moist not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists must not be used
4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes

5. Provide **lateral** support at bearing points to avoid **lateral** displacement and rotation
6. Web stiffeners for point load as shown Minimum point load bearing length ≥ 3.5 inches
7. 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

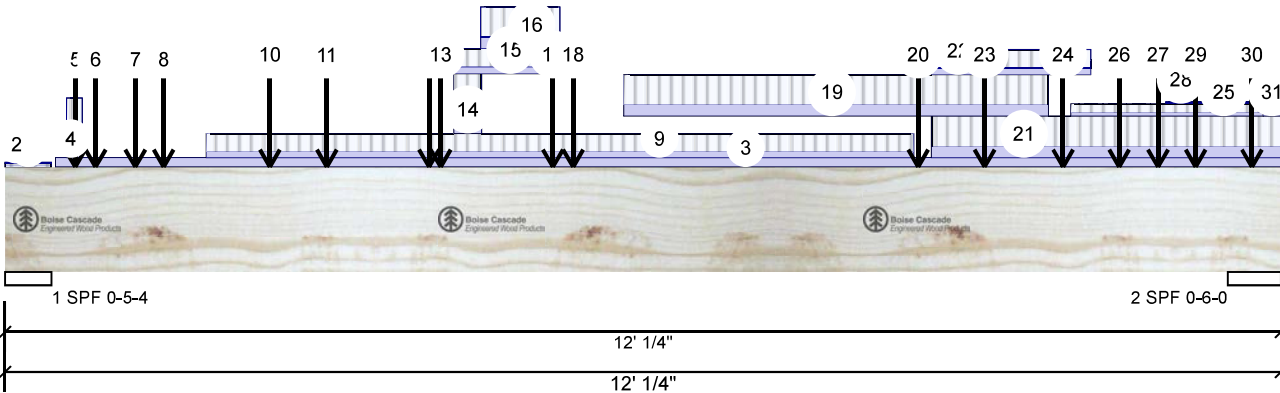
Kott Inc.
3228 Moodie Dr, Ottawa, Ontario
613-838-2775 / 905-642-4400



TRUE COPY
OF PERMIT PLANS
Oct 31 2023Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ONDate: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

Page 2 of 28

F18 Versa Lam LVL 2.1E 3100 SP 1.750" X 11.875" 3-Ply - PASSED Level: Ground Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	3	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	Yes
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	5281	2634	0	0
2	Vertical	5549	2776	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	66%	3293 / 7921	11214	L	1.25D+1.5L
2 - SPF	6.024"	Vert	61%	3470 / 8323	11793	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	29897 ft-lb	5'4 3/16"	55212 ft-lb	0.541 (54%)	1.25D+1.5L	L
Unbraced	29897 ft-lb	5'4 3/16"	55212 ft-lb	0.541 (54%)	1.25D+1.5L	L
Shear	9937 lb	1'5 1/8"	19825 lb	0.501 (50%)	1.25D+1.5L	L
Perm Defl in.	0.104 (L/1290)	5'11 5/16"	0.373 (L/360)	0.279 (28%)	D	Uniform
LL Defl inch	0.207 (L/649)	5'11 1/4"	0.373 (L/360)	0.555 (55%)	L	
TL Defl inch	0.311 (L/432)	5'11 1/4"	0.560 (L/240)	0.556 (56%)	D+L	L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 3 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be continuously laterally braced.
- 8 Bottom must have sheathing attached or be continuously braced.
- 9 Lateral slenderness ratio based on full section width.



JULY 10, 2023

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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.

Lumber

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

chemicals

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

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



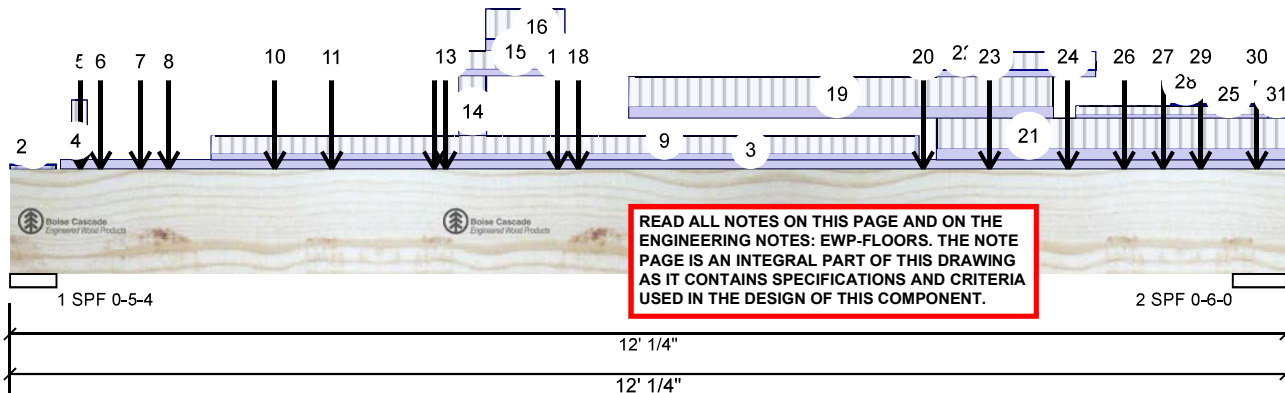
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Oct 31 2023Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ONDate: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

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JULY 10, 2023

F18 Versa Lam LVL 2.1E 3100 SP 1.750" X 11.875" 3-Ply - PASSED Level: Ground Floor



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-5-4	0-6-5	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-5-4	0-2-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-5-11 to 12-0-4		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-7-0 to 0-8-12		Top	149 PLF	370 PLF	0 PLF	0 PLF	J7
5	Point	0-7-15		Far Face	125 lb	333 lb	0 lb	0 lb	J7
6	Point	0-10-4		Top	376 lb	880 lb	0 lb	0 lb	Header Column
	Bearing Length	0-5-8							
7	Point	1-2-12		Near Face	61 lb	162 lb	0 lb	0 lb	J2
8	Point	1-5-15		Far Face	127 lb	337 lb	0 lb	0 lb	J7
9	Part. Uniform	1-10-12 to 8-6-12		Near Face	57 PLF	153 PLF	0 PLF	0 PLF	
10	Point	2-5-15		Far Face	106 lb	283 lb	0 lb	0 lb	J7
11	Point	3-0-6		Far Face	124 lb	330 lb	0 lb	0 lb	F5
12	Point	3-11-15		Far Face	114 lb	305 lb	0 lb	0 lb	J5
13	Point	4-1-4		Top	393 lb	925 lb	0 lb	0 lb	Header Column
	Bearing Length	0-5-8							
14	Part. Uniform	4-2-12 to 4-5-14		Top	149 PLF	370 PLF	0 PLF	0 PLF	J7
15	Part. Uniform	4-2-12 to 5-2-11		Top	60 PLF	159 PLF	0 PLF	0 PLF	J2
16	Part. Uniform	4-5-12 to 5-2-11		Top	99 PLF	263 PLF	0 PLF	0 PLF	J4
17	Point	5-1-15		Far Face	123 lb	327 lb	0 lb	0 lb	J4
18	Point	5-4-3		Top	306 lb	738 lb	0 lb	0 lb	Header Column
	Bearing Length	0-5-8							
19	Part. Uniform	5-9-15 to 9-9-15		Far Face	98 PLF	261 PLF	0 PLF	0 PLF	
20	Point	8-7-3		Top	306 lb	738 lb	0 lb	0 lb	Header Column
	Bearing Length	0-5-8							
21	Part. Uniform	8-8-11 to 12-0-4		Top	99 PLF	263 PLF	0 PLF	0 PLF	J4
22	Part. Uniform	8-8-11 to 10-2-12		Top	60 PLF	159 PLF	0 PLF	0 PLF	J2
23	Point	9-2-12		Near Face	59 lb	158 lb	0 lb	0 lb	J2
24	Point	9-11-10		Near Face	149 lb	329 lb	0 lb	0 lb	F8
25	Tie-In	10-0-8 to 11-10-3	1-11-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 3...

Notes

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Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

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

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



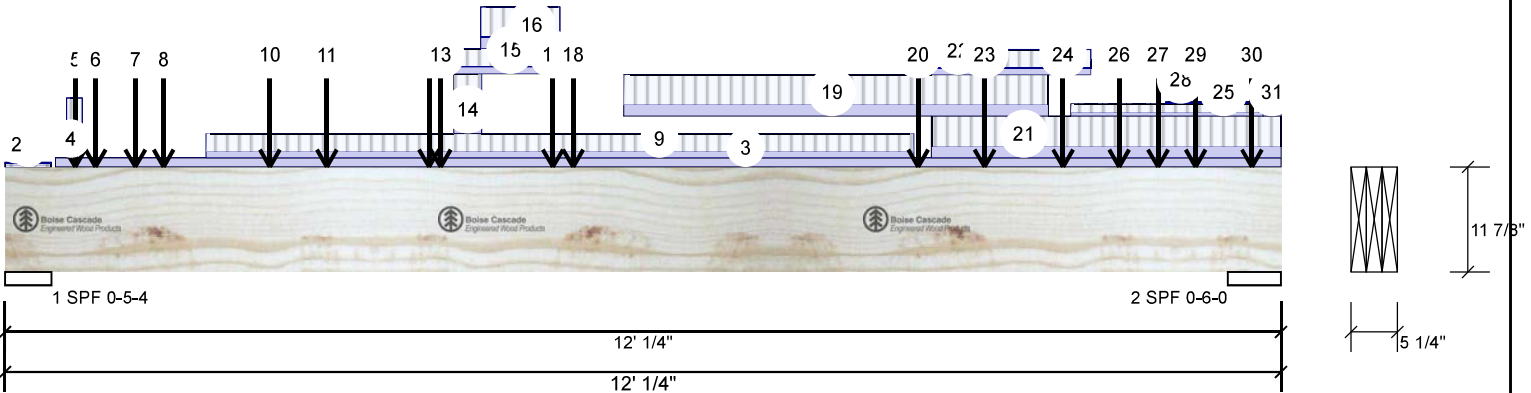
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Oct 31 2023

Client: GREENPARK
Project: **MHP 23031**
Address: ZADORRA ESTATES
OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

Page 4 of 28

PER: **F18 Versa Lam LVL 2.1E 3100 SP 1.750" X 11.875" 3-Ply - PASSED** Level: Ground Floor



...Continued from page 2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
26	Point	10-5-15		Far Face	127 lb	338 lb	0 lb	0 lb	J4
27	Point	10-10-5		Top	185 lb	411 lb	0 lb	0 lb	F12
	Bearing Length	0-5-8							
28	Tapered Start	10-11-3		Top	4 PLF	11 PLF	0 PLF	0 PLF	
	End	12-0-4			4 PLF	11 PLF	0 PLF	0 PLF	
29	Point	11-2-9		Near Face	33 lb	89 lb	0 lb	0 lb	J1
30	Point	11-8-15		Far Face	111 lb	295 lb	0 lb	0 lb	J4
31	Tie-In	11-10-3 to 12-0-4	1-11-11	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				18 PLF				



JULY 10, 2023

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Notes

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Lumber

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

chemicals**Handling & Installation**

1. LVL 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

This design is valid until 4/17/2026

Kott Inc.
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Project: ZADORRA ESTATES
Address: OSHAWA, ON

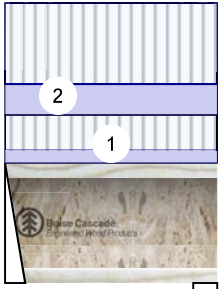
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Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

MHP 23031

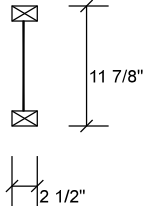
PER: CHIEF BUILDING OFFICIAL
E1-A AUS 140

11.875" - PASSED

Level: Ground Floor



1 Hanger (LF2511) 0-2-0
2 SPF 0-2-6
1'9"
1'9"



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	70	26	0	0
2	Vertical	72	27	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	9%	33 / 104	137	L	1.25D+1.5L
2 - SPF	2.375"	Vert	8%	34 / 108	142	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	46 ft-lb	10 5/16"	5305 ft-lb	0.009 (1%)	1.25D+1.5L	L
Unbraced	46 ft-lb	10 5/16"	5305 ft-lb	0.009 (1%)	1.25D+1.5L	L
Shear	120 lb	1 1/4"	2350 lb	0.051 (5%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/131821)	10 3/8"	0.050 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.000 (L/49433)	10 3/8"	0.050 (L/360)	0.007 (1%)	L	L
TL Defl inch	0.001 (L/35951)	10 3/8"	0.076 (L/240)	0.007 (1%)	D+L	L



JULY 10, 2023

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 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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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-9-0	0-7-5	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-9-0	1-5-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

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Lumber

1. Dry service conditions, unless noted otherwise
2. Joist not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists must not be used
4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. Web stiffeners for point load as shown Minimum point load bearing length >= 3.5 inches
7. 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.
3228 Moodie Dr, Ottawa, Ontario
613-838-2775 / 905-642-4400



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Oct 31 2023

Client: GREENPARK
Project: **MHP 2**
Address: ZADORRA ESTATES
OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

MHP 23031
ZADORRA ESTATES

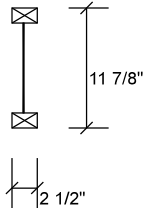
PER: F1-B CHIEF BUILDING OFFICIAL

11.875" - PASSED

Level: Ground Floor



1 Hanger (LF2511) 0-2-0
2 SPF 0-2-6
1'3 5/8"
1'3 5/8"



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	36	13	0	0
2	Vertical	37	14	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	4%	17 / 53	70	L	1.25D+1.5L
2 - SPF	2.375"	Vert	4%	18 / 56	74	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	16 ft-lb	7 5/8"	5305 ft-lb	0.003 (0%)	1.25D+1.5L	L
Unbraced	16 ft-lb	7 5/8"	5305 ft-lb	0.003 (0%)	1.25D+1.5L	L
Shear	59 lb	1 1/4"	2350 lb	0.025 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/282779)	7 11/16"	0.035 (L/360)	0.001 (0%)	D	Uniform
LL Defl inch	0.000 (L/106042)	7 11/16"	0.035 (L/360)	0.003 (0%)	L	L
TL Defl inch	0.000 (L/77121)	7 11/16"	0.053 (L/240)	0.003 (0%)	D+L	L



JULY 10, 2023

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 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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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-3-10	1-4-13	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

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Lumber

1. Dry service conditions, unless noted otherwise
2. Moist not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. IJoist flanges must not be cut or drilled
2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply 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.

5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. Web stiffeners for point load as shown Minimum point load bearing length ≥ 3.5 inches
7. 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
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3228 Moodie Dr, Ottawa, Ontario
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This design is valid until 4/17/2026

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OF PERMIT PLANS

Oct 31 2023

Client: GREENPARK

Date: 7/6/2023

Project:

Input by: W C

Address:

ZADORRA ESTATES
OSHAWA, ON

Job Name:

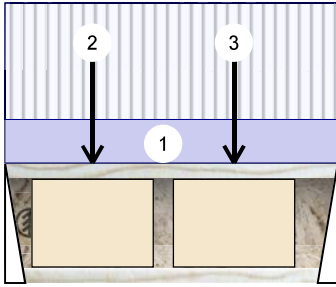
ROSE 10-1 STD & DC

Project #:

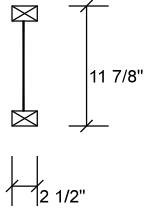
Page 7 of 28

PER: CHIEF BUILDING OFFICIAL
F2 - AJS 140 11.875" - PASSED

Level: Ground Floor



1 Hanger (LF2511) 0-2-0
2 Hanger (LF2511) 0-2-0
2'8 15/16"
2'8 15/16"



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	292	109	0	0
2	Vertical	274	102	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	36%	137 / 438	575	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	34%	128 / 411	539	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	384 ft-lb	1'10 5/8"	5305 ft-lb	0.072 (7%)	1.25D+1.5L	L
Unbraced	384 ft-lb	1'10 5/8"	5305 ft-lb	0.072 (7%)	1.25D+1.5L	L
Shear	569 lb	1 1/4"	2350 lb	0.242 (24%)	1.25D+1.5L	L
Perm Defl in. (L/22944)	0.001	1'6 9/16"	0.085 (L/360)	0.016 (2%)	D	Uniform
LL Defl inch	0.004 (L/8573)	1'6 9/16"	0.085 (L/360)	0.042 (4%)	L	L
TL Defl inch	0.005 (L/6241)	1'6 9/16"	0.127 (L/240)	0.038 (4%)	D+L	L

Design Notes

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- Fill all hanger nailing holes.
- Left Header: SPF, Thickness: 2 1/2"
- Right Header: SPF, Thickness: 2 1/2"
- Girders are designed to be supported on the bottom edge only.
- If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.



JULY 10, 2023

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USED IN THE DESIGN OF THIS COMPONENT.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-8-15	0-9-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-8-11		Near Face	87 lb	233 lb	0 lb	0 lb	J3
3	Point	1-10-11		Near Face	93 lb	249 lb	0 lb	0 lb	J3

Notes

Calculated Structural 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.

Lumber

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

chemicals

Handling & Installation

- Joist flanges must not be cut or drilled
- Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
- Damaged Joists must not be used
- 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.

3228 Moodie Dr, Ottawa, Ontario
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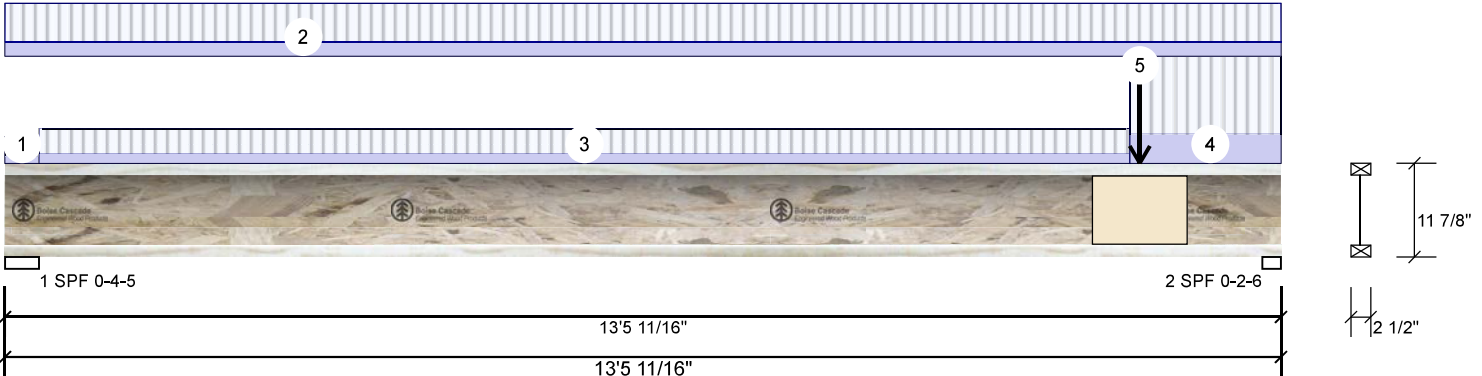


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Oct 31 2023Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ONDate: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

Page 8 of 28

PER: **F3** **AJS 140** **11.875" - PASSED**

Level: Ground Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	360	135	0	0
2	Vertical	628	235	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	4.316"	Vert	37%	169 / 539	708	L	1.25D+1.5L
2 - SPF	2.375"	Vert	73%	293 / 942	1235	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2451 ft-lb	7'5 11/16"	5305 ft-lb	0.462 (46%)	1.25D+1.5L	L
Unbraced	2451 ft-lb	7'5 11/16"	5305 ft-lb	0.462 (46%)	1.25D+1.5L	L
Shear	1211 lb	13'4 1/16"	2350 lb	0.515 (52%)	1.25D+1.5L	L
Perm Defl in.	0.054 (L/2913)	7' 7/16"	0.435 (L/360)	0.124 (12%)	D	Uniform
LL Defl inch	0.143 (L/1091)	7' 1/2"	0.435 (L/360)	0.330 (33%)	L	
TL Defl inch	0.197 (L/794)	7' 1/2"	0.652 (L/240)	0.302 (30%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 11'11 13/16" o.c.



JULY 10, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-4-5	0-4-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 13-5-11	0-8-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-4-5 to 11-10-9	0-5-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	11-10-9 to 13-5-11	1-5-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
5	Point	11-11-13		Far Face	102 lb	274 lb	0 lb	0 lb	F2

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.

Lumber

1. Dry service conditions, unless noted otherwise
2. Joist not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists must not be used
4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

This design is valid until 4/17/2026

Manufacturer Info

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(800) 232-0788
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CCMC: 12787

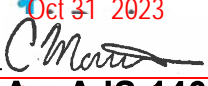
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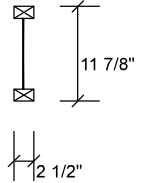
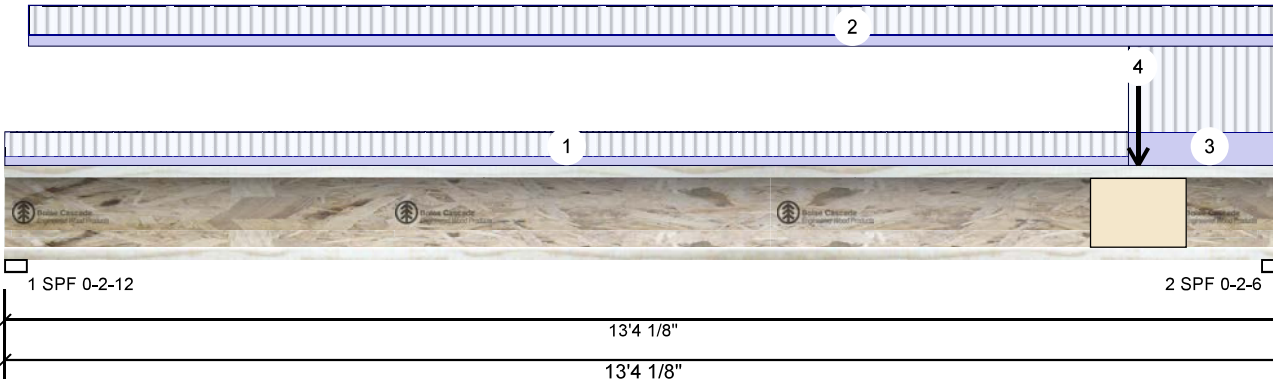
Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

PER: 
E3-A CHIEF BUILDING OFFICIAL

11.875" - PASSED

Level: Ground Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	274	103	0	0
2	Vertical	570	213	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.750"	Vert	31%	128 / 412	540	L	1.25D+1.5L
2 - SPF	2.375"	Vert	67%	267 / 855	1122	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2000 ft-lb	7'7 5/16"	5305 ft-lb	0.377 (38%)	1.25D+1.5L	L
Unbraced	2000 ft-lb	7'7 5/16"	5305 ft-lb	0.377 (38%)	1.25D+1.5L	L
Shear	1101 lb	13'2 1/2"	2350 lb	0.468 (47%)	1.25D+1.5L	L
Perm Defl in.	0.044 (L/3562)	6'11 11/16"	0.435 (L/360)	0.101 (10%)	D	Uniform
LL Defl inch	0.117 (L/1335)	6'11 11/16"	0.435 (L/360)	0.270 (27%)	L	
TL Defl inch	0.161 (L/971)	6'11 11/16"	0.652 (L/240)	0.247 (25%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 11'10 1/4" o.c.



JULY 10, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 11-9-0	0-4-15	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-2-15 to 13-4-2	0-6-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	11-9-0 to 13-4-2	1-5-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	11-10-4		Near Face	109 lb	292 lb	0 lb	0 lb	F2

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.

Lumber

1. Dry service conditions, unless noted otherwise
2. Joist not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists must not be used
4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

This design is valid until 4/17/2026

Manufacturer Info

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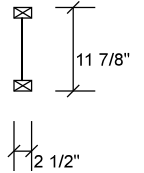
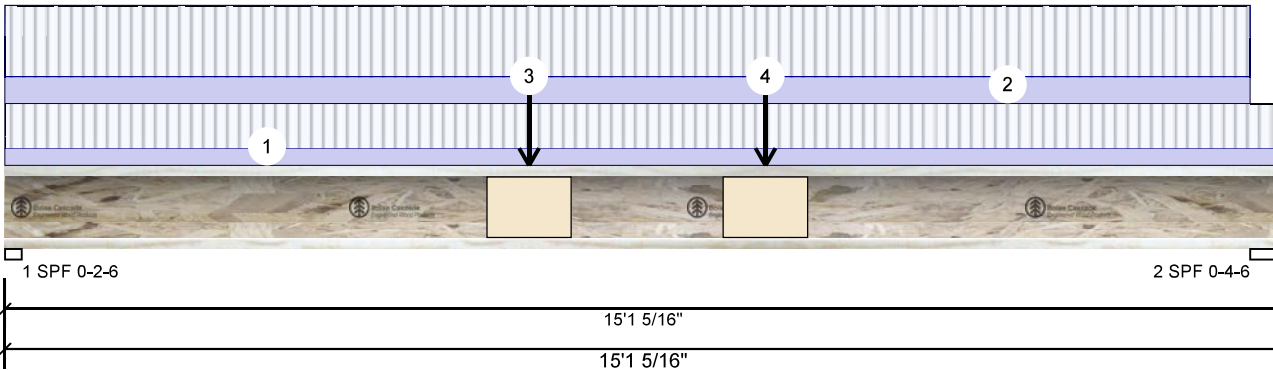
Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

Page 10 of 28

PER: CHIEF BUILDING OFFICIAL
E4 AJS 140 11.875" - PASSED

Level: Ground Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	390	146	0	0
2	Vertical	388	145	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	46%	182 / 585	767	L	1.25D+1.5L
2 - SPF	4.375"	Vert	40%	181 / 583	764	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2929 ft-lb	7'5 1/2"	5305 ft-lb	0.552 (55%)	1.25D+1.5L	L
Unbraced	2929 ft-lb	7'5 1/2"	5305 ft-lb	0.552 (55%)	1.25D+1.5L	L
Shear	754 lb	1 5/8"	2350 lb	0.321 (32%)	1.25D+1.5L	L
Perm Defl in.	0.077 (L/2295)	7'5 11/16"	0.489 (L/360)	0.157 (16%)	D	Uniform
LL Defl inch	0.206 (L/856)	7'5 11/16"	0.489 (L/360)	0.420 (42%)	L	
TL Defl inch	0.282 (L/624)	7'5 11/16"	0.733 (L/240)	0.385 (38%)	D+L	L

Design Notes

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- Girders are designed to be supported on the bottom edge only.
- If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- Bottom flange must be laterally braced at a maximum of 6'2 7/16" o.c.



JULY 10, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 15-1-5	0-5-8	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 14-8-14	0-8-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	6-2-7		Near Face	13 lb	36 lb	0 lb	0 lb	F1
4	Point	9-0-1		Near Face	13 lb	36 lb	0 lb	0 lb	F1

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.

Lumber

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

chemicals

Handling & Installation

- Joist flanges must not be cut or drilled
- Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
- Damaged Joists must not be used
- 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

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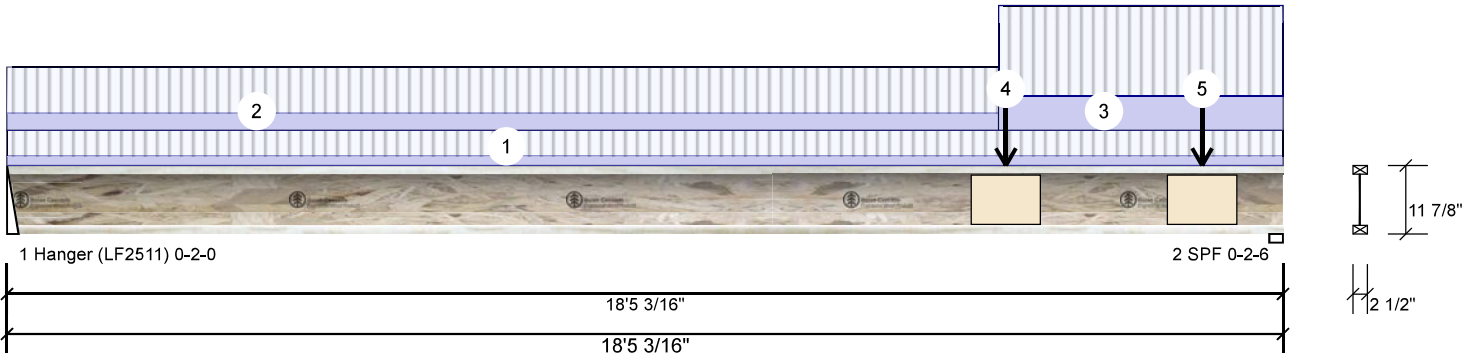
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Client: GREENPARK
Project: **MHP 2**
Address: ZADGORRA ESTATES
OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

F5 **AJS 140** **11.875" - PASSED**

Level: Ground Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	330	124	0	0
2	Vertical	569	212	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	40%	155 / 495	650	L	1.25D+1.5L
2 - SPF	2.375"	Vert	66%	266 / 853	1119	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3513 ft-lb	11' 1/8"	5305 ft-lb	0.662 (66%)	1.25D+1.5L	L
Unbraced	3513 ft-lb	11' 1/8"	5305 ft-lb	0.662 (66%)	1.25D+1.5L	L
Shear	1106 lb	18'3 9/16"	2350 lb	0.470 (47%)	1.25D+1.5L	L
Perm Defl in.	0.139 (L/1569)	9'7 1/2"	0.606 (L/360)	0.229 (23%)	D	Uniform
LL Defl inch	0.372 (L/587)	9'7 1/2"	0.606 (L/360)	0.613 (61%)	L	L
TL Defl inch	0.511 (L/427)	9'7 1/2"	0.910 (L/240)	0.562 (56%)	D+L	L



JULY 10, 2023

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 5 1/4"
- 4 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 Bottom flange must be laterally braced at a maximum of 14'5 1/8" 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 18-5-3	0-3-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 14-3-14	0-5-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	14-3-14 to 18-5-3	0-11-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	14-5-2		Near Face	74 lb	199 lb	0 lb	0 lb	F1
5	Point	17-3-3		Near Face	26 lb	70 lb	0 lb	0 lb	F1

Notes

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Lumber

1. Dry service conditions, unless noted otherwise
2. Joist not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-**ply** fastening details and handling/erection details
3. Damaged Joists must not be used
4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes

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

Manufacturer Info

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CCMC: 12787

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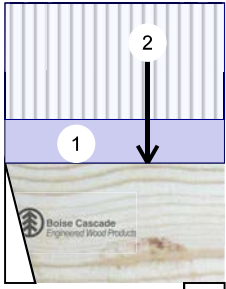
Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

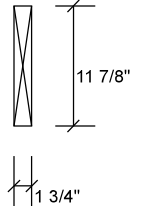
MHP 23031

F6 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" - PASSED

Level: Ground Floor



1 Hanger (HUS1.81/10) 0-3-0
2 SPF 0-4-0
1'9 3/4"
1'9 3/4"



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	90	39	0	0
2	Vertical	138	57	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	3%	49 / 135	184	L	1.25D+1.5L
2 - SPF	4.000"	Vert	6%	71 / 206	278	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	75 ft-lb	1'1 15/16"	17696 ft-lb	0.004 (0%)	1.25D+1.5L	L
Unbraced	75 ft-lb	1'1 15/16"	17696 ft-lb	0.004 (0%)	1.25D+1.5L	L
Shear	76 lb	5 7/8"	6608 lb	0.011 (1%)	1.25D+1.5L	L
Perm Defl in. (L/959176)	0.000	11 1/2"	0.045 (L/360)	0.000 (0%)	D	Uniform
LL Defl inch (L/393508)	0.000	11 11/16"	0.045 (L/360)	0.001 (0%)	L	L
TL Defl inch (L/279052)	0.000	11 5/8"	0.068 (L/240)	0.001 (0%)	D+L	L



JULY 10, 2023

Design Notes

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

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-9-12	1-11-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	1-2-2		Far Face	33 lb	89 lb	0 lb	0 lb	J1
	Self Weight				6 PLF				

Notes

Calculated Structural 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.

Lumber

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

chemicals

Handling & Installation

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation

- For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

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



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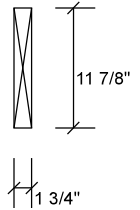
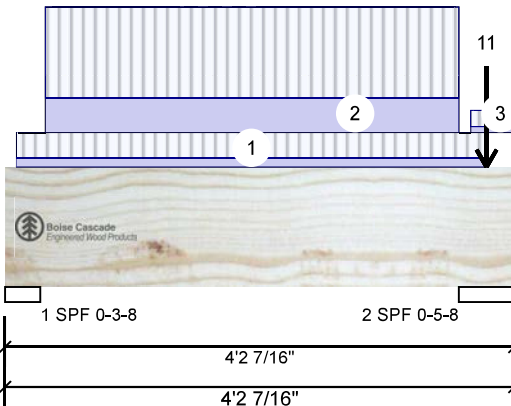
Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

MHP 23031

PER: **F7-A Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" - PASSED**

Level: Ground Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	186	83	0	0
2	Vertical	267	136	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	10%	103 / 279	382	L	1.25D+1.5L
2 - SPF	5.500"	Vert	10%	170 / 401	571	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	349 ft-lb	2' 1/4"	17696 ft-lb	0.020 (2%)	1.25D+1.5L	L
Unbraced	349 ft-lb	2' 1/4"	17696 ft-lb	0.020 (2%)	1.25D+1.5L	L
Shear	169 lb	1'3 3/8"	6608 lb	0.026 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/115075)	2' 1/4"	0.119 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/50058)	2' 1/4"	0.119 (L/360)	0.007 (1%)	L	L
TL Defl inch	0.001 (L/34884)	2' 1/4"	0.179 (L/240)	0.007 (1%)	D+L	L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 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.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-1-2 to 3-11-11	0-6-15	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-4-0 to 3-8-15		Top	32 PLF	84 PLF	0 PLF	0 PLF	
3	Tie-In	3-10-2 to 4-2-7	0-4-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	3-11-11		Top	1 lb	0 lb	0 lb	0 lb	Rim Board Self Weight

Continued on page 2...

Notes

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Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

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

Kott Inc.
3228 Moodie Dr, Ottawa, Ontario
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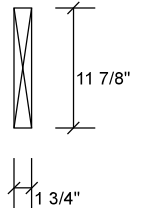
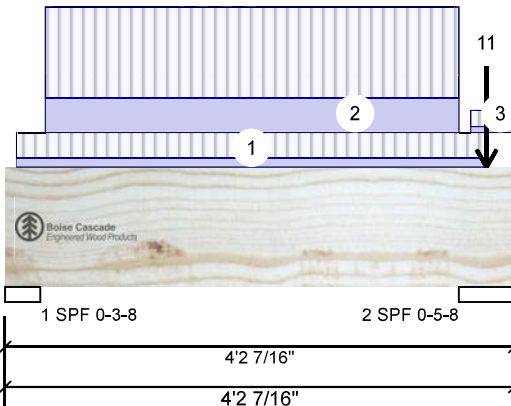
Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

MHP 23031

PER: CHIEF ENGINEER
F7-A Versa-Lam LV- 2.1E 3100 SP 1.750" X 11.875" - PASSED

Level: Ground Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	Bearing Length	0-5-8							
5	Point	3-11-11		Top	15 lb	40 lb	0 lb	0 lb	J4
	Bearing Length	0-5-8							
7	Point	3-11-11		Top	12 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
9	Point	3-11-11		Top	12 lb	32 lb	0 lb	0 lb	J4
	Bearing Length	0-5-8							
11	Point	3-11-11		Top	9 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
	Self Weight				6 PLF				



JULY 10, 2023

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Notes

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Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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Boise, ID 83702
(800) 232-0788
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CCMC: 12472

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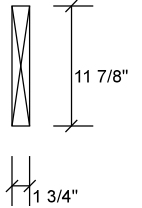
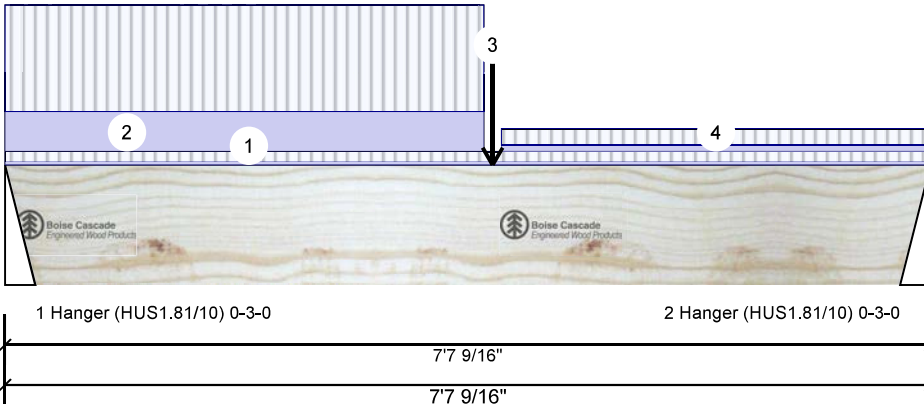
Client: GREENPARK
 Project: ZADORRA ESTATES
 Address: OSHAWA, ON

Date: 7/6/2023
 Input by: W C
 Job Name: ROSE 10-1 STD & DC
 Project #:

MHP 23031

E8 Versal Lam LVL 2.1E 3100 SP 1.750" X 11.875" - PASSED

Level: Ground Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	594	248	0	0
2	Vertical	329	149	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	21%	310 / 891	1201	L	1.25D+1.5L
2 - Hanger	3.000"	Vert	12%	186 / 493	679	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1832 ft-lb	3'5"	17696 ft-lb	0.104 (10%)	1.25D+1.5L	L
Unbraced	1832 ft-lb	3'5"	17696 ft-lb	0.104 (10%)	1.25D+1.5L	L
Shear	772 lb	1'2 7/8"	6608 lb	0.117 (12%)	1.25D+1.5L	L
Perm Defl in. (L/12419)	0.007	3'8 1/4"	0.242 (L/360)	0.029 (3%)	D	Uniform
LL Defl inch	0.016 (L/5328)	3'8 1/16"	0.242 (L/360)	0.068 (7%)	L	L
TL Defl inch	0.023 (L/3729)	3'8 1/8"	0.363 (L/240)	0.064 (6%)	D+L	L

Design Notes

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



JULY 10, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 7-7-9	0-4-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 3-11-6		Top	60 PLF	160 PLF	0 PLF	0 PLF	
3	Point		4-0-4	Near Face	39 lb	90 lb	0 lb	0 lb	F6
4	Tie-In	4-1-2 to 7-7-9	0-7-8	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				

Notes

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Lumber

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

chemicals

Handling & Installation

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-PLY fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation

- For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products
 1111 W. Jefferson St.
 Boise, ID 83702
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 CCMC: 12472

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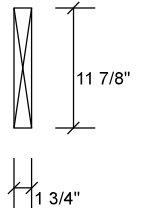
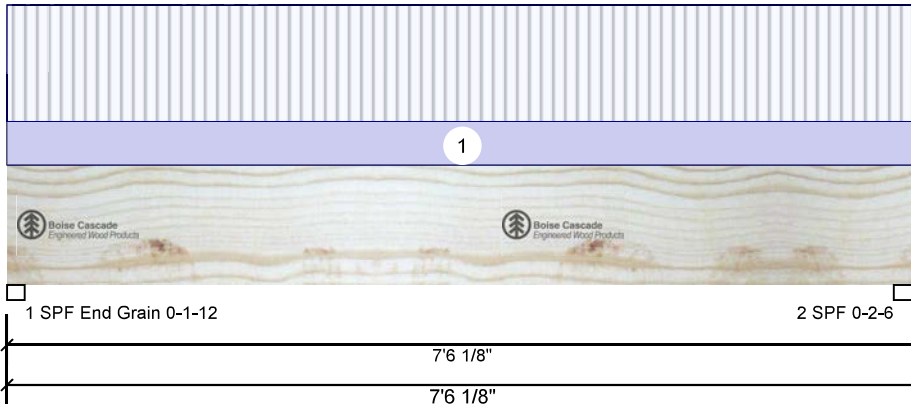
Client: GREENPARK
Project: **MHP 2**
Address: ZADORRA ESTATES
OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

MHP 23031
ZADORRA ESTATES

PER: **F8-A** **Versa-Lam LV** **2.1E 3100 SP** **1.750" X 11.875" - PASSED**

Level: Ground Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	69	48	0	0
2	Vertical	70	49	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	1.750"	Vert	5%	60 / 104	164	L	1.25D+1.5L
2 - SPF	2.375"	Vert	6%	61 / 105	166	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	292 ft-lb	3'8 3/4"	17696 ft-lb	0.016 (2%)	1.25D+1.5L	L
Unbraced	292 ft-lb	3'8 3/4"	17696 ft-lb	0.016 (2%)	1.25D+1.5L	L
Shear	121 lb	1'1 5/8"	6608 lb	0.018 (2%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/53309)	3'8 13/16"	0.243 (L/360)	0.007 (1%)	D	Uniform
LL Defl inch	0.002 (L/37002)	3'8 13/16"	0.243 (L/360)	0.010 (1%)	L	L
TL Defl inch	0.004 (L/21842)	3'8 13/16"	0.365 (L/240)	0.011 (1%)	D+L	L



Design Notes

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

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 7-6-2	0-5-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				

Notes

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Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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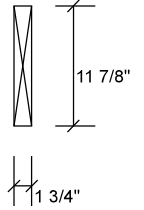
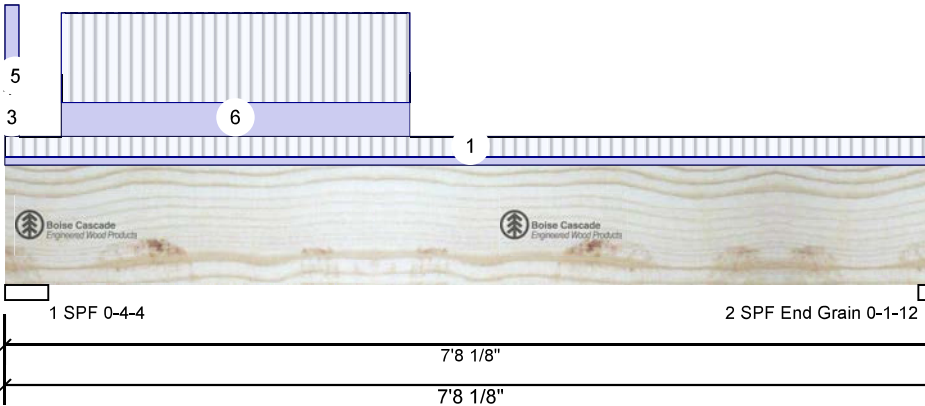
Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

MHP 23031

F8-B Versa-Lam LV 2.1E 3100 SP 1.750" X 11.875" - PASSED

Level: Ground Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	256	128	0	0
2	Vertical	120	67	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	4.276"	Vert	12%	160 / 383	544	L	1.25D+1.5L
2 - SPF	1.750"	Vert	8%	84 / 180	264	L	1.25D+1.5L
End Grain							

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	722 ft-lb	2'11 11/16"	17696 ft-lb	0.041 (4%)	1.25D+1.5L	L
Unbraced	722 ft-lb	2'11 11/16"	17696 ft-lb	0.041 (4%)	1.25D+1.5L	L
Shear	336 lb	1'4 1/8"	6608 lb	0.051 (5%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/28535)	3'9 1/16"	0.243 (L/360)	0.013 (1%)	D	Uniform
LL Defl inch	0.006 (L/14189)	3'8 5/16"	0.243 (L/360)	0.025 (3%)	L	L
TL Defl inch	0.009 (L/9477)	3'8 9/16"	0.365 (L/240)	0.025 (3%)	D+L	L

Design Notes

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



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 7-8-2	0-5-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tapered Start	0-0-0		Top	7 PLF	19 PLF	0 PLF	0 PLF	
	End	0-1-6			7 PLF	19 PLF	0 PLF	0 PLF	
4	Tapered Start	0-0-0		Top	3 PLF	8 PLF	0 PLF	0 PLF	
	End	0-1-6			3 PLF	8 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 0-1-6		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight

Continued on page 2...

Notes

Calculated Structural 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.

Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

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



This design is valid until 4/17/2026

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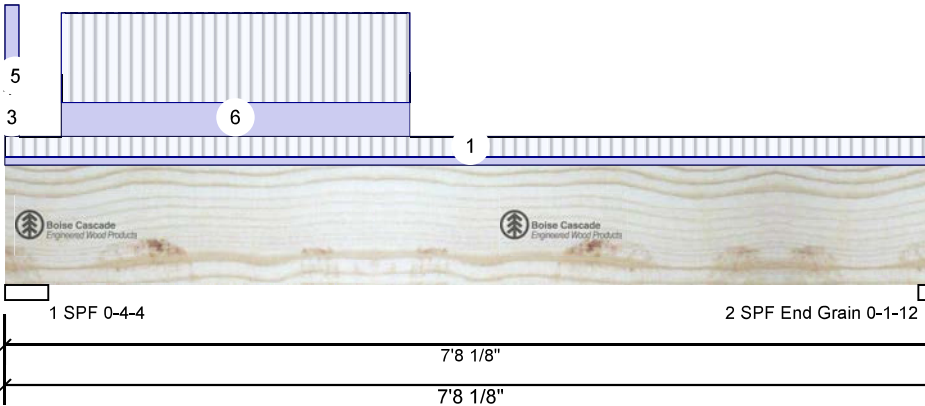
Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

MHP 23031

PER: F8-B Versa-Lam LV 2.1E 3100 SP 1.750" X 11.875" - PASSED

Level: Ground Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
6	Part. Uniform	0-5-9 to 3-4-1		Top	30 PLF	80 PLF	0 PLF	0 PLF	
	Self Weight				6 PLF				



JULY 10, 2023

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Notes

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Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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Boise, ID 83702
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CCMC: 12472

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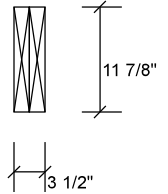
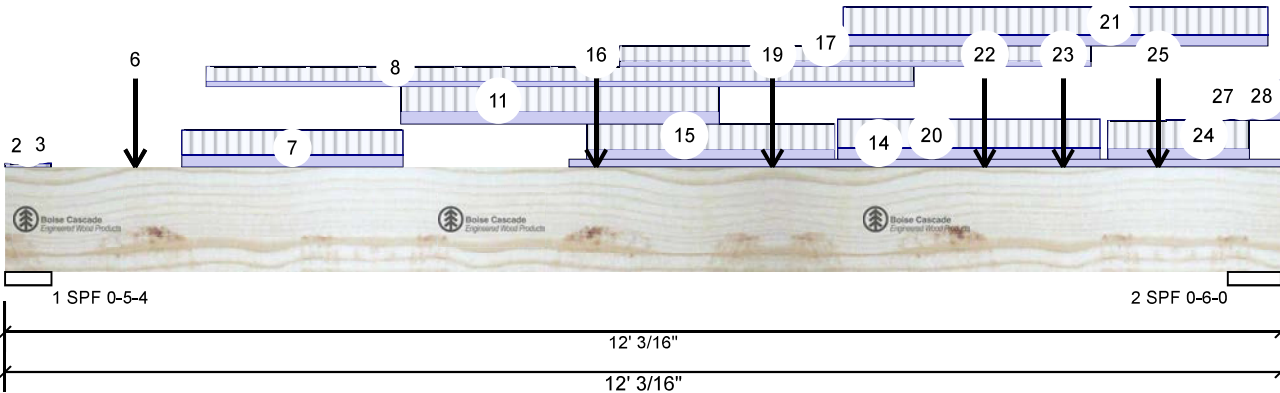
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Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

MHP 23031

F9 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	3550	1709	0	0
2	Vertical	5413	2645	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	66%	2136 / 5325	7461	L	1.25D+1.5L
2 - SPF	6.000"	Vert	88%	3306 / 8120	11426	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	28921 ft-lb	6'1 1/2"	35392 ft-lb	0.817 (82%)	1.25D+1.5L	L
Unbraced	28921 ft-lb	6'1 1/2"	35392 ft-lb	0.817 (82%)	1.25D+1.5L	L
Shear	9369 lb	10'6 5/16"	13217 lb	0.709 (71%)	1.25D+1.5L	L
Perm Defl in.	0.143 (L/939)	6'1 1/4"	0.373 (L/360)	0.383 (38%)	D	Uniform
LL Defl inch	0.298 (L/452)	6'1 3/16"	0.373 (L/360)	0.797 (80%)	L	
TL Defl inch	0.441 (L/305)	6'1 3/16"	0.560 (L/240)	0.787 (79%)	D+L	L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 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.



JULY 10, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-5-4	0-5-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-5-4	0-2-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-2-12 to 0-5-4		Top	1 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-2-12		Far Face	61 lb	162 lb	0 lb	0 lb	J2

Continued on page 2...

Notes

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Lumber

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

chemicals

Handling & Installation

1. LVL 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

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

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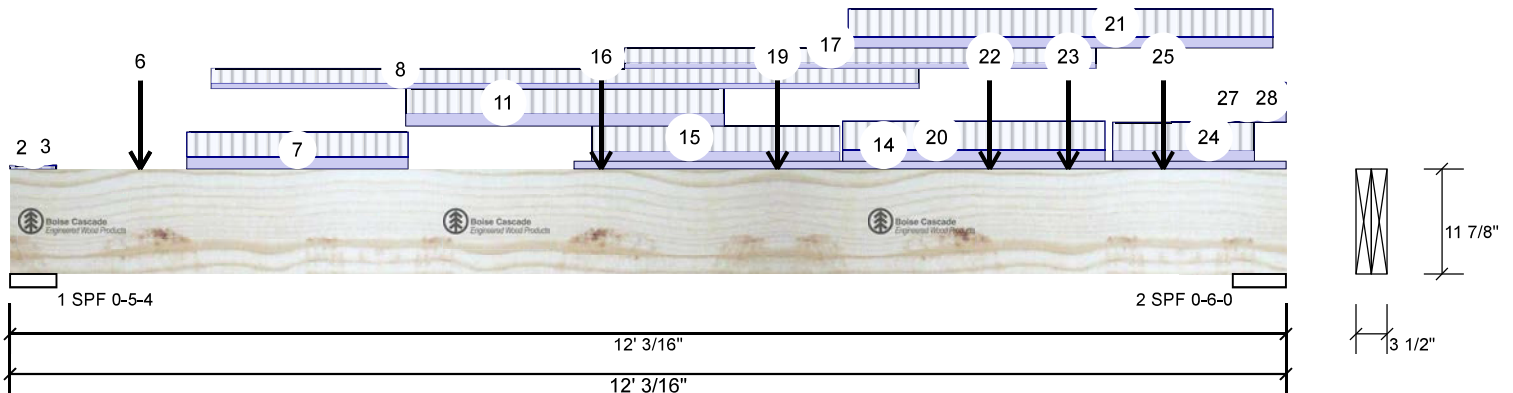
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Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

Page 20 of 28

PER: **F9 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED** Level: Ground Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
6	Point	1-2-12		Near Face	114 lb	233 lb	0 lb	0 lb	J4
7	Part. Uniform	1-8-0 to 3-9-0		Near Face	128 PLF	257 PLF	0 PLF	0 PLF	
8	Part. Uniform	1-10-12 to 8-6-12		Far Face	57 PLF	153 PLF	0 PLF	0 PLF	
11	Part. Uniform	3-8-12 to 6-8-12		Near Face	126 PLF	264 PLF	0 PLF	0 PLF	
14	Part. Uniform	5-3-12 to 12-0-3		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
15	Part. Uniform	5-5-12 to 7-9-12		Top	104 PLF	266 PLF	0 PLF	0 PLF	J4
16	Point	5-6-13		Top	467 lb	1126 lb	0 lb	0 lb	F13
	Bearing Length	0-5-8							
17	Part. Uniform	5-9-8 to 10-2-12		Top	59 PLF	157 PLF	0 PLF	0 PLF	J2
19	Point	7-2-12		Near Face	143 lb	311 lb	0 lb	0 lb	J4
20	Part. Uniform	7-10-2 to 10-3-12		Top	115 PLF	305 PLF	0 PLF	0 PLF	J5
21	Part. Uniform	7-10-12 to 11-10-12		Near Face	111 PLF	296 PLF	0 PLF	0 PLF	
22	Point	9-2-12		Far Face	59 lb	158 lb	0 lb	0 lb	J2
23	Point	9-11-10		Far Face	248 lb	594 lb	0 lb	0 lb	F8
24	Part. Uniform	10-4-10 to 11-8-10		Top	111 PLF	296 PLF	0 PLF	0 PLF	J5
25	Point	10-10-5		Top	127 lb	258 lb	0 lb	0 lb	F12
	Bearing Length	0-5-8							
26	Part. Uniform	10-11-3 to 12-0-3		Top	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
27	Tapered Start	10-11-3		Top	0 PLF	1 PLF	0 PLF	0 PLF	
	End	12-0-3			0 PLF	1 PLF	0 PLF	0 PLF	
28	Part. Uniform	11-7-12 to 12-0-3		Top	113 PLF	300 PLF	0 PLF	0 PLF	J5
	Self Weight				12 PLF				

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JULY 10, 2023

Notes

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Lumber

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

chemicals**Handling & Installation**

1. LVL 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

This design is valid until 4/17/2026

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

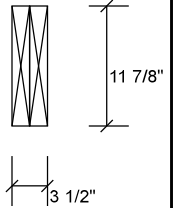
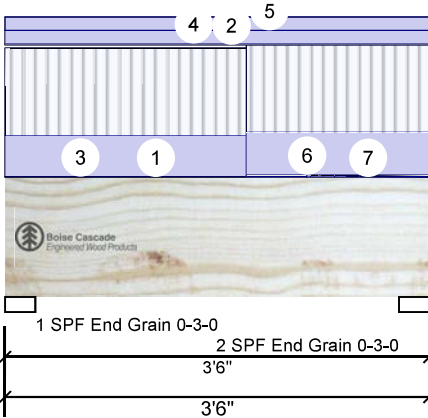


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Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

PERM: CHANGING LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	462	386	0	0
2	Vertical	461	392	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	11%	483 / 693	1175	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	11%	490 / 692	1182	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	821 ft-lb	1'9"	35392 ft-lb	0.023 (2%)	1.25D+1.5L	L
Unbraced	821 ft-lb	1'9"	35392 ft-lb	0.023 (2%)	1.25D+1.5L	L
Shear	966 lb	1'2 7/8"	13217 lb	0.073 (7%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/69985)	1'9"	0.104 (L/360)	0.005 (1%)	D	Uniform
LL Defl inch	0.001 (L/58902)	1'9"	0.104 (L/360)	0.006 (1%)	L	L
TL Defl inch	0.001 (L/31983)	1'9"	0.156 (L/240)	0.008 (1%)	D+L	L

Design Notes

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



JULY 10, 2023

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ID	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	2-5-14			0 PLF	1 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 3-6-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
3	Part. Uniform	0-0-0 to 1-11-14		Near Face	124 PLF	263 PLF	0 PLF	0 PLF	J4

Continued on page 2...

Notes

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Lumber

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

chemicals

Handling & Installation

1. LVL 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

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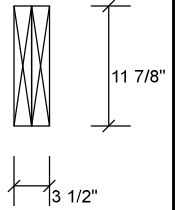
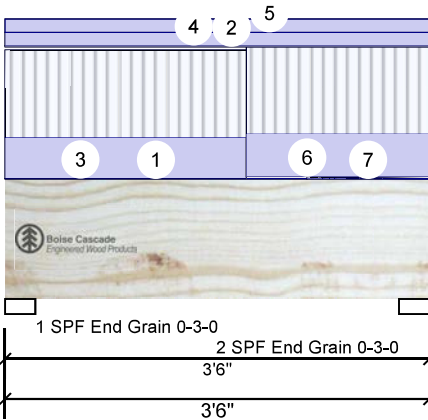
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Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

MHP 23031

FH6 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Part. Uniform	0-0-0 to 3-6-0		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
5	Part. Uniform	0-0-0 to 3-6-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Part. Uniform	1-11-14 to 3-6-0		Near Face	129 PLF	261 PLF	0 PLF	0 PLF	J4
7	Tapered Start	2-5-14		Near Face	2 PLF	5 PLF	0 PLF	0 PLF	
	End	3-6-0			0 PLF	1 PLF	0 PLF	0 PLF	
	Self Weight				12 PLF				



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Lumber

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

chemicals

Handling & Installation

1. LVL 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

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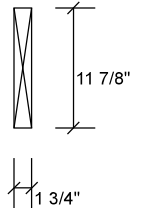
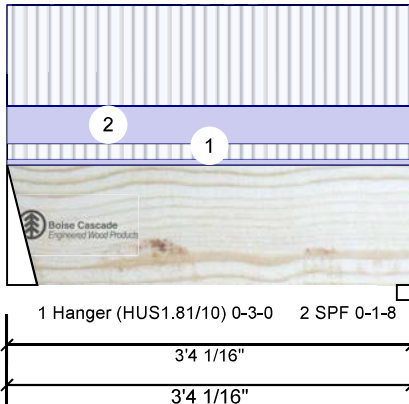
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Client: GREENPARK
Project: **MHP 2**
Address: ZADGORRA ESTATES
OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

PER: **F11** **CHIEF OF POLICE OFFICER** **Versa-Lam LV** **2.1E 3100 SP** **1.750" X 11.875" - PASSED**

Level: Second Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	159	70	0	0
2	Vertical	148	65	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	6%	87 / 238	326	L	1.25D+1.5L
2 - SPF	1.509"	Vert	19%	81 / 221	302	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	224 ft-lb	1'8 13/16"	17696 ft-lb	0.013 (1%)	1.25D+1.5L	L
Unbraced	224 ft-lb	1'8 13/16"	17696 ft-lb	0.013 (1%)	1.25D+1.5L	L
Shear	100 lb	1'2 7/8"	6608 lb	0.015 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/198723)	1'8 13/16"	0.103 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/87330)	1'8 13/16"	0.103 (L/360)	0.004 (0%)	L	L
TL Defl inch	0.001 (L/60669)	1'8 13/16"	0.154 (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 Left Header: DF, Thickness: 1 3/4"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at bearings.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 3-4-1	0-3-11	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 3-4-1	1-11-14	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				

Notes

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Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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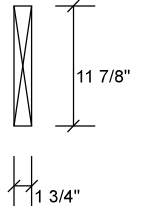
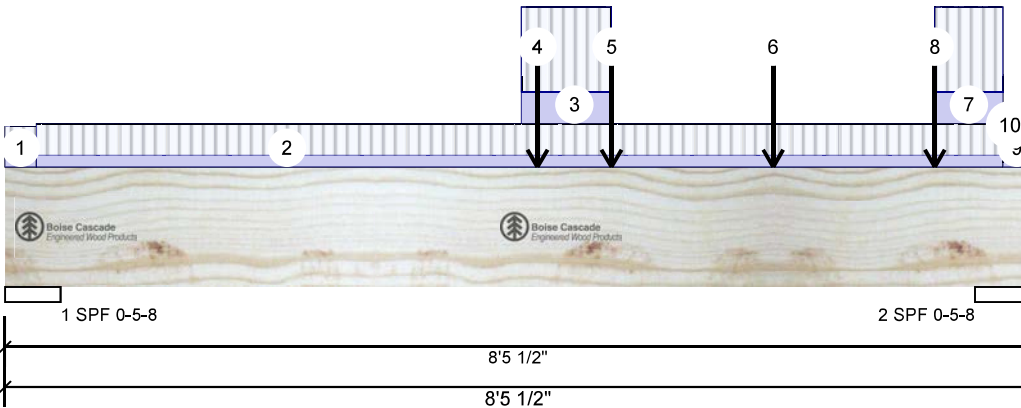
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Project #:

MHP 23031

PER: CHINA CHEN
F12 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" - PASSED Level: Second Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	258	127	0	0
2	Vertical	411	185	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	Vert	9%	158 / 387	545	L	1.25D+1.5L
2 - SPF	5.500"	Vert	14%	231 / 616	847	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1621 ft-lb	4'4 11/16"	17696 ft-lb	0.092 (9%)	1.25D+1.5L	L
Unbraced	1621 ft-lb	4'4 11/16"	17696 ft-lb	0.092 (9%)	1.25D+1.5L	L
Shear	692 lb	7' 1/8"	6608 lb	0.105 (10%)	1.25D+1.5L	L
Perm Defl in. (L/13366)	0.007	4'4 5/16"	0.256 (L/360)	0.027 (3%)	D	Uniform
LL Defl inch	0.015 (L/6133)	4'4 9/16"	0.256 (L/360)	0.059 (6%)	L	L
TL Defl inch	0.022 (L/4204)	4'4 1/2"	0.383 (L/240)	0.057 (6%)	D+L	L



JULY 10, 2023

Design Notes

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- Girders are designed to be supported on the bottom edge only.
- Top must be continuously laterally braced.
- Bottom must be laterally braced at a maximum of 4'4 11/16" o.c.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-3-2	0-7-5	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-3-2 to 8-2-12	0-7-13	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	4-3-1 to 5-0-0	1-9-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	4-4-11		Near Face	70 lb	159 lb	0 lb	0 lb	F11
5	Point	5-0-0		Near Face	24 lb	65 lb	0 lb	0 lb	J1
6	Point	6-4-0		Near Face	34 lb	89 lb	0 lb	0 lb	J1
7	Tie-In	7-8-0 to 8-2-12	1-9-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 2...

Notes

Calculated Structural 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.

Lumber

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

chemicals

Handling & Installation

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation

- For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

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

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



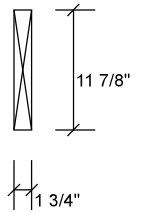
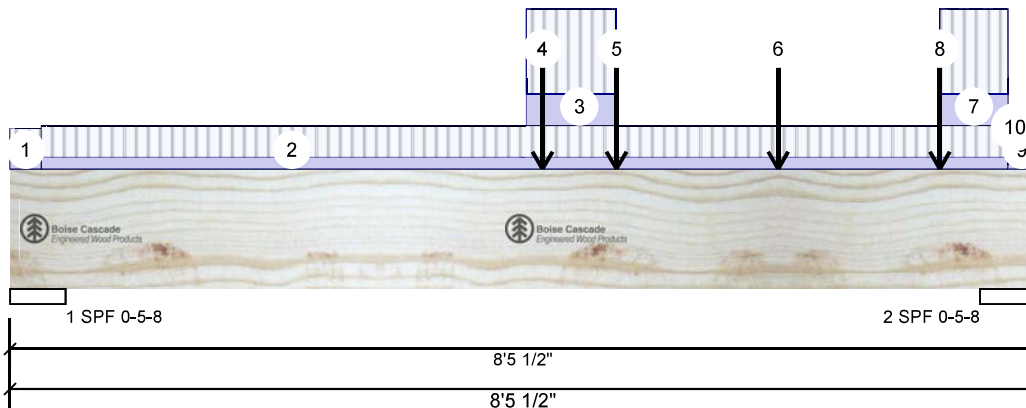
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Oct 31 2023

Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

Page 25 of 28

PER: CHINA ZHANG
F12 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" - PASSED Level: Second Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
8	Point	7-8-0		Near Face	17 lb	45 lb	0 lb	0 lb	J1
9	Tie-In	8-2-12 to 8-5-8	0-3-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
10	Tie-In	8-2-12 to 8-5-8	0-4-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				



JULY 10, 2023

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Notes

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Lumber

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

chemicals

Handling & Installation

1. LVL 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

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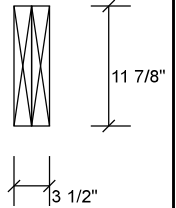
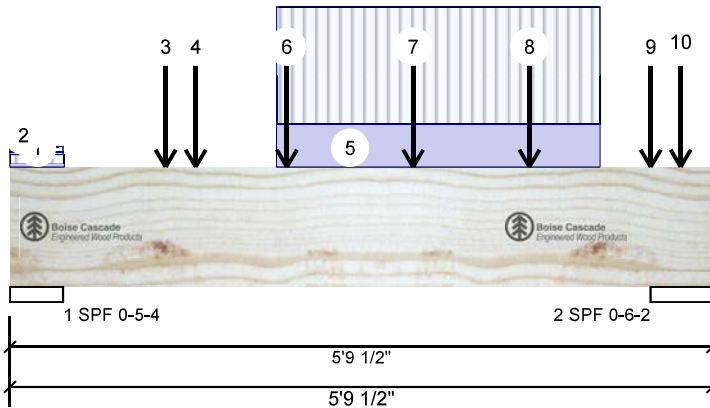
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Client: GREENPARK
Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

PER: **F13 Versa Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED** Level: Second Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	830	354	0	0
2	Vertical	1126	467	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	15%	443 / 1244	1687	L	1.25D+1.5L
2 - SPF	6.136"	Vert	17%	584 / 1689	2274	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2464 ft-lb	2'11 11/16"	35392 ft-lb	0.070 (7%)	1.25D+1.5L	L
Unbraced	2464 ft-lb	2'11 11/16"	35392 ft-lb	0.070 (7%)	1.25D+1.5L	L
Shear	1819 lb	1'5 1/8"	13217 lb	0.138 (14%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/25494)	2'10 5/16"	0.166 (L/360)	0.014 (1%)	D	Uniform
LL Defl inch	0.006 (L/10588)	2'10 3/8"	0.166 (L/360)	0.034 (3%)	L	L
TL Defl inch	0.008 (L/7481)	2'10 5/16"	0.248 (L/240)	0.032 (3%)	D+L	L

Design Notes

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



JULY 10, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-5-6	0-3-10	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-5-4	0-2-6	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-3-6		Near Face	95 lb	242 lb	0 lb	0 lb	J4
4	Point	1-6-6		Far Face	71 lb	188 lb	0 lb	0 lb	J2

Continued on page 2...

Notes

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Lumber

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

chemicals

Handling & Installation

1. LVL 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

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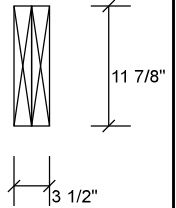
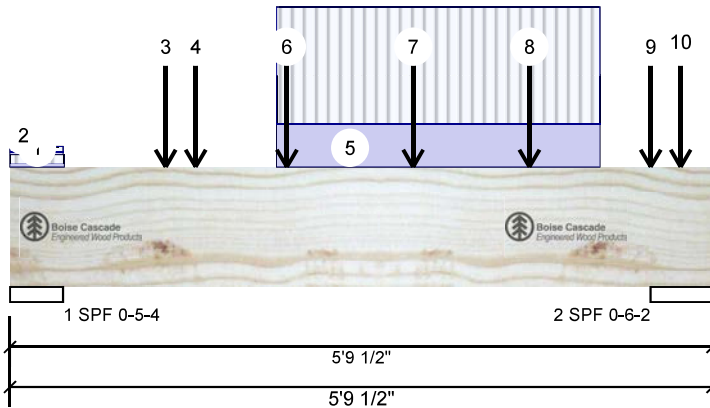
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Project: ZADORRA ESTATES
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Project #:

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PER: **F13 Versa Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED** Level: Second Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Part. Uniform	2-2-6 to 4-10-6		Far Face	58 PLF	156 PLF	0 PLF	0 PLF	
6	Point	2-3-6		Near Face	106 lb	268 lb	0 lb	0 lb	J4
7	Point	3-3-14		Near Face	103 lb	263 lb	0 lb	0 lb	J4
8	Point	4-3-6		Near Face	100 lb	257 lb	0 lb	0 lb	J4
9	Point	5-3-6		Near Face	68 lb	174 lb	0 lb	0 lb	J4
10	Point	5-6-6		Far Face	52 lb	139 lb	0 lb	0 lb	J2
	Self Weight				12 PLF				



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Lumber

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

Handling & Installation

1. LVL 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

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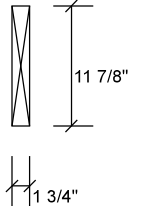
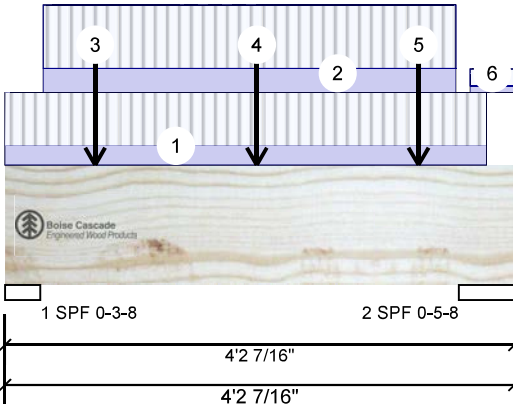
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Project: ZADORRA ESTATES
Address: OSHAWA, ON

Date: 7/6/2023
Input by: W C
Job Name: ROSE 10-1 STD & DC
Project #:

MHP 23031

E7 Versal Lam LVL 2.1E 3100 SP 1.750" X 11.875" - PASSED

Level: Second Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II	Vibration:	Not Checked
General Load			
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	388	158	0	0
2	Vertical	383	158	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	21%	198 / 581	779	L	1.25D+1.5L
2 - SPF	5.500"	Vert	13%	197 / 575	772	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	703 ft-lb	2' 15/16"	17696 ft-lb	0.040 (4%)	1.25D+1.5L	L
Unbraced	703 ft-lb	2' 15/16"	17696 ft-lb	0.040 (4%)	1.25D+1.5L	L
Shear	440 lb	1'3 3/8"	6608 lb	0.067 (7%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/61907)	2' 3/8"	0.119 (L/360)	0.006 (1%)	D	Uniform
LL Defl inch	0.002 (L/25149)	2' 3/8"	0.119 (L/360)	0.014 (1%)	L	L
TL Defl inch	0.002 (L/17884)	2' 3/8"	0.179 (L/240)	0.013 (1%)	D+L	L



JULY 10, 2023

Design Notes

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

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 3-11-11	1-9-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-3-12 to 3-8-10		Top	32 PLF	84 PLF	0 PLF	0 PLF	
3	Point	0-8-15		Far Face	24 lb	65 lb	0 lb	0 lb	J1
4	Point	2-0-15		Far Face	34 lb	89 lb	0 lb	0 lb	J1
5	Point	3-4-15		Far Face	17 lb	45 lb	0 lb	0 lb	J1
6	Tie-In	3-10-1 to 4-2-7	0-6-13	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				

Notes

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Lumber

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

chemicals

Handling & Installation

- LVL beams must not be cut or drilled
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