

Member Information				Unfactored Reactions UNPATTERNED lb (Uplift)					
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	42	19	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	40	20	0	0
Deflection LL:	360	Load Sharing:	No	Bearings and Factored Reactions					
Deflection TL:	240	Deck:	Not Checked						
Importance:	Normal - II	Vibration:	Not Checked	Bearing	Length	Dir.	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
General Load				1 - SPF	2.375"	Vert	5% 24 / 64	88 L	1.25D+1.5L
Floor Live:	40 PSF			2 - Hanger	2.000"	Vert	5% 25 / 60	85 L	1.25D+1.5L
Dead:	15 PSF								

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	21 ft-lb	8 1/2"	4095 ft-lb	0.005 (1%)	1.25D+1.5L	L
Unbraced	21 ft-lb	8 1/2"	4095 ft-lb	0.005 (1%)	1.25D+1.5L	L
Shear	72 lb	1'3 3/8"	1830 lb	0.040 (4%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/144591)	8 1/2"	0.038 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/71071)	8 1/2"	0.038 (L/360)	0.005 (1%)	L	L
TL Defl inch	0.000 (L/47650)	8 1/2"	0.057 (L/240)	0.005 (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 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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-4-10	1-5-15	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-2-6 to 1-4-10		Top	7 PLF	0 PLF	0 PLF	0 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.

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.

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



This design is valid until 4/17/2026

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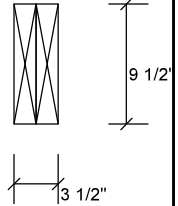
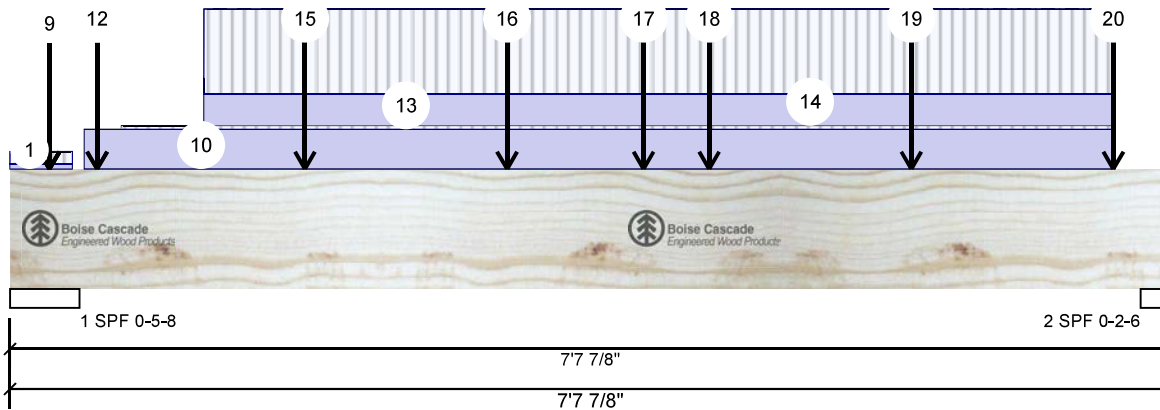
Client: GREENPARK
 Project: ZADORRA ESTATES
 Address: ZADORRA ESTATES
 OSHAWA, ON

Date: 6/27/2023
 Input by: W C
 Job Name: RIVER 2-2 STD
 Project #:

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F10 Versa Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply - PASSED Level: Ground Floor

MHP 23022



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	3372	1656	0	0
2	Vertical	1204	733	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	Vert	60%	2071 / 5058	7128	L	1.25D+1.5L
2 - SPF	2.375"	Vert	53%	916 / 1805	2721	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5030 ft-lb	4' 3/16"	23220 ft-lb	0.217 (22%)	1.25D+1.5L	L
Unbraced	5030 ft-lb	4' 3/16"	23220 ft-lb	0.217 (22%)	1.25D+1.5L	L
Shear	4577 lb	1'3"	10574 lb	0.433 (43%)	1.25D+1.5L	L
Perm Defl in.	0.025 (L/3484)	3'11 3/16"	0.238 (L/360)	0.103 (10%)	D	Uniform
LL Defl inch	0.039 (L/2169)	3'11"	0.238 (L/360)	0.166 (17%)	L	L
TL Defl inch	0.064 (L/1337)	3'11 1/16"	0.356 (L/240)	0.180 (18%)	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.



JUNE 29, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-4-15	0-6-6	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-3-2		Top	9 lb	25 lb	0 lb	0 lb	J4
	Bearing Length	0-5-8							
5	Point	0-3-2		Top	7 lb	0 lb	0 lb	0 lb	Wall 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

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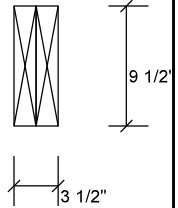
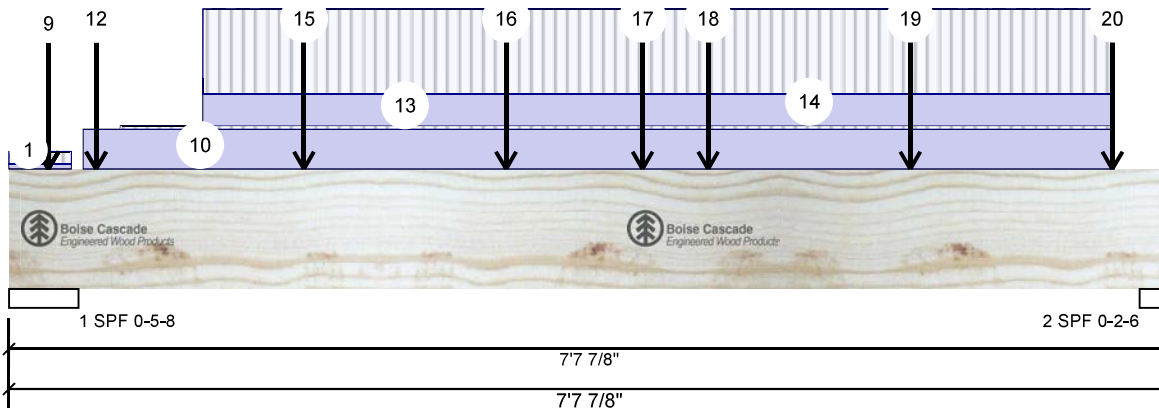
Client: GREENPARK
Project: ZADORRA ESTATES
Address: ZADORRA ESTATES
OSHAWA, ON

Date: 6/27/2023
Input by: W C
Job Name: RIVER 2-2 STD
Project #:

Page 3 of 29

F10 Versa Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply - PASSED Level: Ground Floor

MHP 23022



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	Bearing Length	0-5-8							
6	Point	0-3-2		Top	14 lb	37 lb	0 lb	0 lb	J4
	Bearing Length	0-5-8							
8	Point	0-3-2		Top	0 lb	1 lb	0 lb	0 lb	
	Bearing Length	0-5-8							
9	Point	0-3-2		Top	11 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
10	Part. Uniform	0-5-14 to 7-3-8		Top	66 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
11	Point	0-6-14		Top	555 lb	1348 lb	0 lb	0 lb	F8
	Bearing Length	0-3-8							
12	Point	0-6-14		Near Face	471 lb	1150 lb	0 lb	0 lb	F8
13	Tapered Start	0-8-13		Top	2 PLF	4 PLF	0 PLF	0 PLF	
	End	7-3-8			2 PLF	4 PLF	0 PLF	0 PLF	
14	Part. Uniform	1-3-6 to 7-3-8		Top	53 PLF	141 PLF	0 PLF	0 PLF	J1
15	Point	1-11-6		Near Face	84 lb	225 lb	0 lb	0 lb	J2
16	Point	3-3-6		Near Face	70 lb	186 lb	0 lb	0 lb	J2
17	Point	4-2-3		Near Face	90 lb	129 lb	0 lb	0 lb	F8
18	Point	4-7-6		Near Face	57 lb	152 lb	0 lb	0 lb	J2
19	Point	5-11-6		Near Face	86 lb	229 lb	0 lb	0 lb	J2
20	Point	7-3-6		Near Face	79 lb	211 lb	0 lb	0 lb	J2
	Self Weight				9 PLF				

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JUNE 29, 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

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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www.bc.com
CCMC: 12472

Kott Inc.
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613-838-2775 / 905-642-4400



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Nov 23 2023

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

Date: 6/27/2023
Input by: W C
Job Name: RIVER 2-2 STD
Project #:

Page 4 of 29

F1-A ASS 140

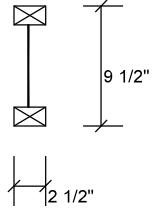
9.500" - PASSED

MHP 23022

Level: Ground Floor



1 SPF 0-2-6
2 Hanger (LF259) 0-2-0
1'4 5/8"
1'4 5/8"



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 CBC 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	42	16	0	0
2	Vertical	40	15	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	5%	20 / 63	83	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	5%	19 / 61	80	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	19 ft-lb	8 1/2"	4095 ft-lb	0.005 (0%)	1.25D+1.5L	L
Unbraced	19 ft-lb	8 1/2"	4095 ft-lb	0.005 (0%)	1.25D+1.5L	L
Shear	67 lb	1 5/8"	1830 lb	0.037 (4%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/189523)	8 1/2"	0.038 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/71071)	8 1/2"	0.038 (L/360)	0.005 (1%)	L	L
TL Defl inch	0.000 (L/51688)	8 1/2"	0.057 (L/240)	0.005 (0%)	D+L	L



JUNE 29, 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 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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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-4-10	1-5-15	Top	15 PSF	40 PSF	0 PSF	0 PSF	

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. Joist not to be treated with fire retardant or corrosive chemicals

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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PE: CHIEF BUILDING OFFICIAL

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

Date: 6/27/2023
Input by: W C
Job Name: RIVER 2-2 STD
Project #:

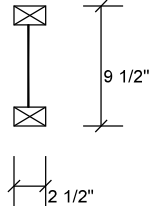
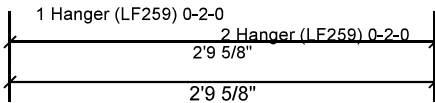
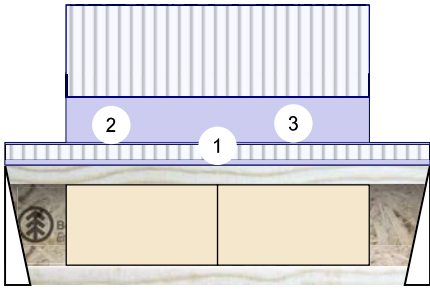
Page 5 of 29

F2 ASS 140

9.500" - PASSED

MHP 23022

Level: Ground Floor



Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 CBC 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	266	132	0	0
2	Vertical	266	132	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	35%	165 / 398	563	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	36%	166 / 399	565	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	429 ft-lb	1'4 13/16"	4095 ft-lb	0.105 (10%)	1.25D+1.5L	L
Unbraced	429 ft-lb	1'4 13/16"	4095 ft-lb	0.105 (10%)	1.25D+1.5L	L
Shear	557 lb	2'8 3/8"	1830 lb	0.304 (30%)	1.25D+1.5L	L
Perm Defl in. (L/12336)	0.003	1'4 7/8"	0.087 (L/360)	0.029 (3%)	D	Uniform
LL Defl inch	0.005 (L/6145)	1'4 7/8"	0.087 (L/360)	0.059 (6%)	L	L
TL Defl inch	0.008 (L/4102)	1'4 7/8"	0.130 (L/240)	0.059 (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: 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.



JUNE 29, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-9-10	0-10-10	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 2-9-10		Top	4 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-4-13 to 2-4-13		Near Face	108 PLF	216 PLF	0 PLF	0 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
- 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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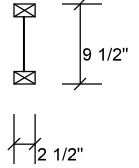
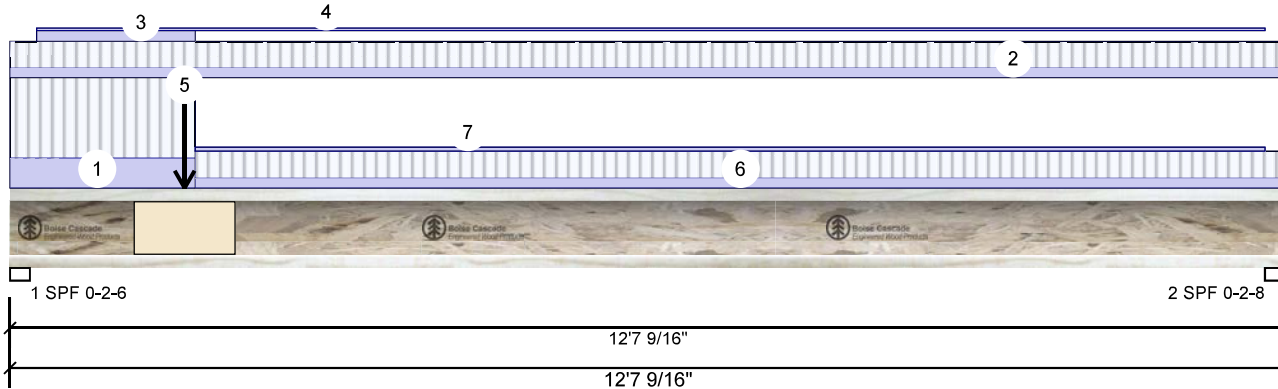
Page 6 of 29

F3 ASS 140

9.500" - PASSED

MHP 23022

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	553	273	0	0
2	Vertical	292	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	71%	341 / 829	1170	L	1.25D+1.5L
2 - SPF	2.500"	Vert	37%	181 / 438	619	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2171 ft-lb	5'4 1/16"	4095 ft-lb	0.530 (53%)	1.25D+1.5L	L
Unbraced	2171 ft-lb	5'4 1/16"	4095 ft-lb	0.530 (53%)	1.25D+1.5L	L
Shear	1149 lb	1 5/8"	1830 lb	0.628 (63%)	1.25D+1.5L	L
Perm Defl in.	0.088 (L/1681)	6' 5/16"	0.412 (L/360)	0.214 (21%)	D	Uniform
LL Defl inch	0.177 (L/839)	6' 5/16"	0.412 (L/360)	0.429 (43%)	L	
TL Defl inch	0.265 (L/560)	6' 5/16"	0.617 (L/240)	0.429 (43%)	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 10'10 13/16" o.c.



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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 1-10-0	1-6-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-7-9	0-5-15	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-3-3 to 1-10-0		Top	8 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-3-3 to 12-5-1		Top	2 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-8-12		Far Face	132 lb	266 lb	0 lb	0 lb	F2
6	Tie-In	1-10-0 to 12-7-9	0-6-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	1-10-0 to 12-5-1		Top	3 PLF	0 PLF	0 PLF	0 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.

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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Nov 23 2023Client: GREENPARK
Project: ZADORRA ESTATES
Address: ZADORRA ESTATES
OSHAWA, ONDate: 6/27/2023
Input by: W C
Job Name: RIVER 2-2 STD
Project #:

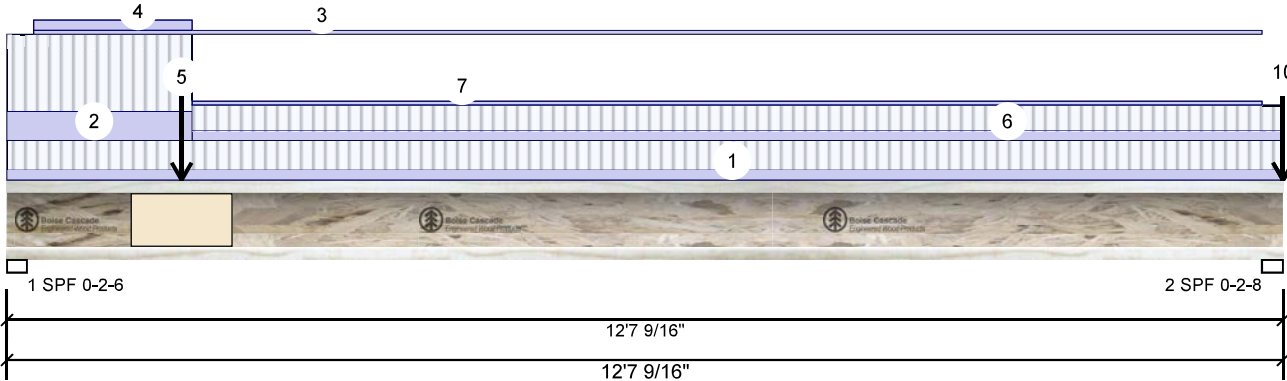
Page 7 of 29

F3-A ASS 140

9.500" - PASSED

MHP 23022

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	569	285	0	0
2	Vertical	326	166	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	73%	356 / 854	1210	L	1.25D+1.5L
2 - SPF	2.500"	Vert	42%	207 / 489	696	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2288 ft-lb	5' 4 7/8"	4095 ft-lb	0.559 (56%)	1.25D+1.5L	L
Unbraced	2288 ft-lb	5' 4 7/8"	4095 ft-lb	0.559 (56%)	1.25D+1.5L	L
Shear	1188 lb	1 5/8"	1830 lb	0.649 (65%)	1.25D+1.5L	L
Perm Defl in.	0.094 (L/1569)	6' 9/16"	0.412 (L/360)	0.229 (23%)	D	Uniform
LL Defl inch	0.185 (L/802)	6' 1/2"	0.412 (L/360)	0.449 (45%)	L	
TL Defl inch	0.279 (L/531)	6' 1/2"	0.617 (L/240)	0.452 (45%)	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 10'10 13/16" o.c.



JUNE 29, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-7-9	0-6-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-10-0	1-6-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-3-3 to 12-5-1		Top	3 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-3-3 to 1-10-0		Top	8 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-8-12		Near Face	132 lb	266 lb	0 lb	0 lb	F2
6	Tie-In	1-10-0 to 12-7-9	0-6-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	1-10-0 to 12-5-1		Top	3 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

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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Nov 23 2023

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Project: ZADORRA ESTATES
Address: ZADORRA ESTATES
OSHAWA, ON

Date: 6/27/2023
Input by: W C
Job Name: RIVER 2-2 STD
Project #:

Page 8 of 29

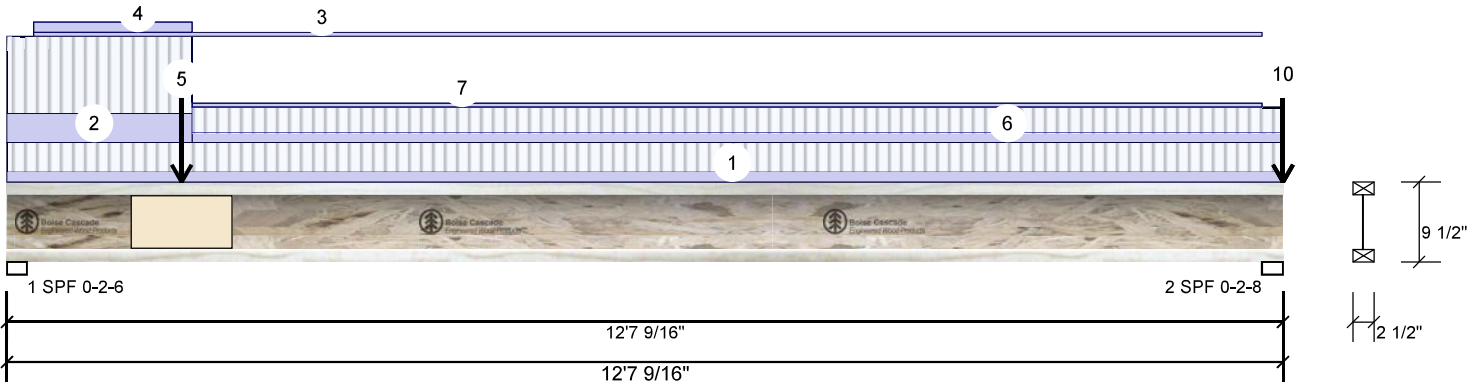
PE: *C. Morris*
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F3-A AJS 140

9.500" - PASSED

MHP 23022

Level: Ground Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
8	Point	12-7-9		Top	3 lb	9 lb	0 lb	0 lb	J4
	Bearing Length	0-1-8							
9	Point	12-7-9		Top	3 lb	9 lb	0 lb	0 lb	J4
	Bearing Length	0-1-8							
10	Point	12-7-9		Top	3 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-1-8							



JUNE 29, 2023

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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

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Nov 23 2023

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Project #:

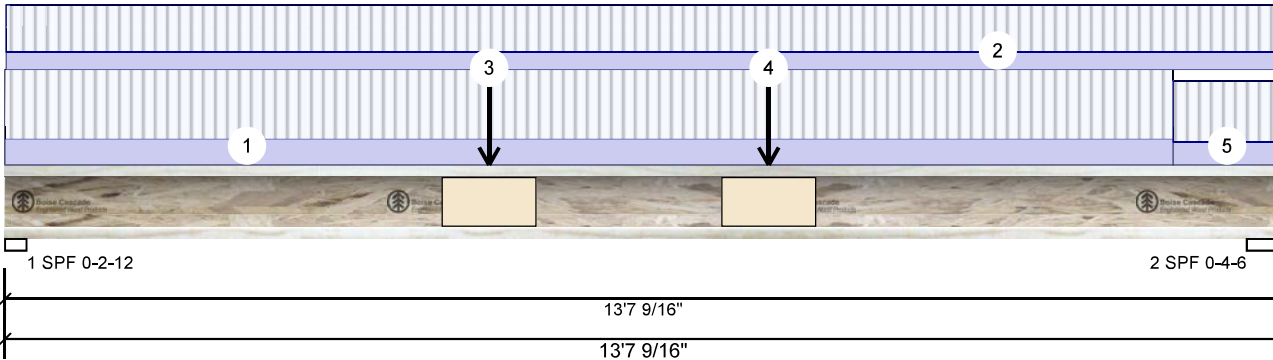
Page 9 of 29

F3-B ASS 140

9.500" - PASSED

MHP 23022

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	388	146	0	0
2	Vertical	391	146	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.767"	Vert	44%	182 / 583	765	L	1.25D+1.5L
2 - SPF	4.375"	Vert	42%	183 / 586	769	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2598 ft-lb	6'9 1/16"	4095 ft-lb	0.635 (63%)	1.25D+1.5L	L
Unbraced	2598 ft-lb	6'9 1/16"	4095 ft-lb	0.635 (63%)	1.25D+1.5L	L
Shear	748 lb	2"	1830 lb	0.409 (41%)	1.25D+1.5L	L
Perm Defl in.	0.093 (L/1691)	6'8 15/16"	0.439 (L/360)	0.213 (21%)	D	Uniform
LL Defl inch	0.249 (L/634)	6'8 15/16"	0.439 (L/360)	0.568 (57%)	L	
TL Defl inch	0.342 (L/461)	6'8 15/16"	0.658 (L/240)	0.520 (52%)	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 5'5 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 12-5-11	0-9-3	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-2 to 13-7-9	0-6-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	5-2-1		Near Face	15 lb	40 lb	0 lb	0 lb	F1
4	Point	8-1-14		Near Face	15 lb	40 lb	0 lb	0 lb	F1
5	Tie-In	12-5-11 to 13-7-9	0-8-2	Top	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.

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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CCMC: 12787

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Nov 23 2023

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

Date: 6/27/2023
 Input by: W C
 Job Name: RIVER 2-2 STD
 Project #:

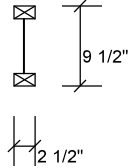
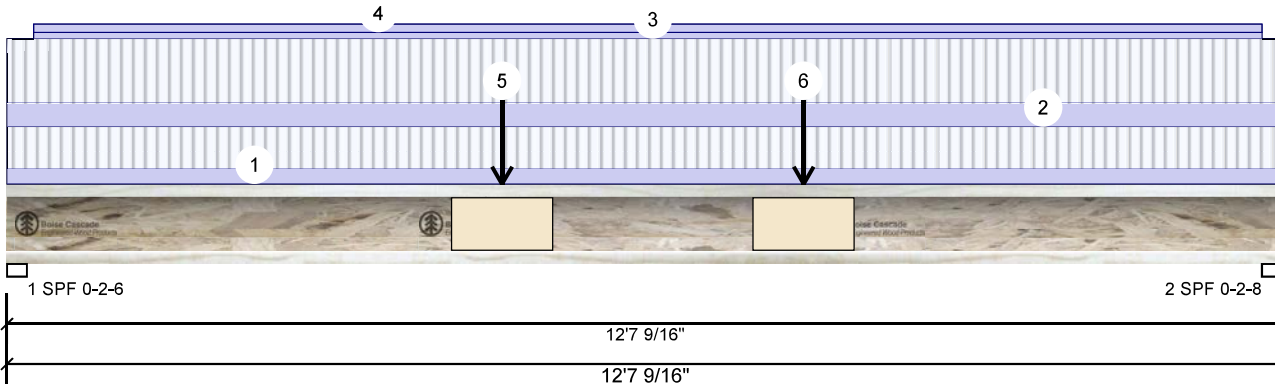
Page 10 of 29

F3-C ASS 140

9.500" - PASSED

MHP 23022

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	182	0	0
2	Vertical	361	183	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%	228 / 539	767	L	1.25D+1.5L
2 - SPF	2.500"	Vert	46%	229 / 542	771	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2469 ft-lb	6'3 9/16"	4095 ft-lb	0.603 (60%)	1.25D+1.5L	L
Unbraced	2469 ft-lb	6'3 9/16"	4095 ft-lb	0.603 (60%)	1.25D+1.5L	L
Shear	756 lb	12'5 13/16"	1830 lb	0.413 (41%)	1.25D+1.5L	L
Perm Defl in.	0.099 (L/1491)	6'3 3/4"	0.412 (L/360)	0.241 (24%)	D	Uniform
LL Defl inch	0.195 (L/762)	6'3 3/4"	0.412 (L/360)	0.473 (47%)	L	
TL Defl inch	0.294 (L/504)	6'3 3/4"	0.617 (L/240)	0.476 (48%)	D+L	L



JUNE 29, 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 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 4'10 13/16" 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 12-7-9	0-6-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-7-9	0-9-3	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-3-3 to 12-5-1		Top	3 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-3-3 to 12-5-1		Top	4 PLF	0 PLF	0 PLF	0 PLF	
5	Point	4-10-13		Near Face	20 lb	40 lb	0 lb	0 lb	F1
6	Point	7-10-10		Near Face	20 lb	40 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

This design is valid until 4/17/2026

Manufacturer Info

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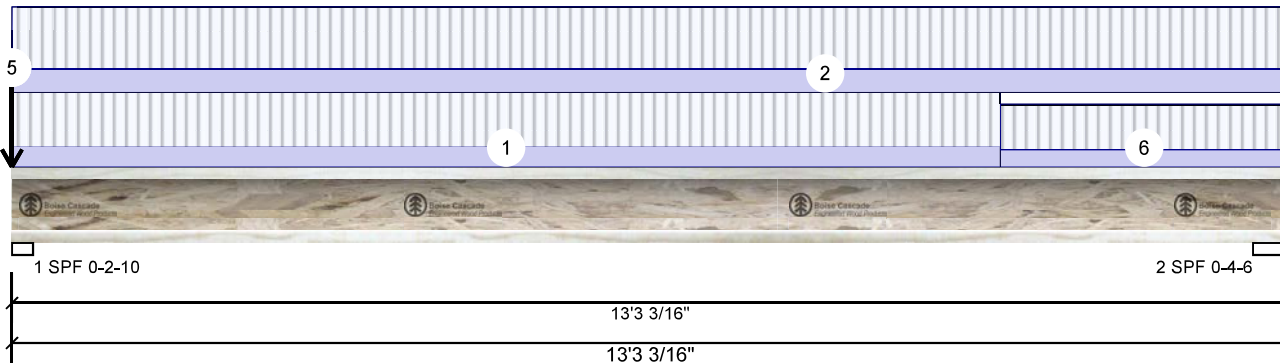
Page 12 of 29

F3-D ASS 140

9.500" - PASSED

MHP 23022

Level: Ground Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	Bearing Length	0-1-8							
6	Tie-In	10-3-5 to 13-3-3	0-5-14	Top	15 PSF	40 PSF	0 PSF	0 PSF	



JUNE 29, 2023

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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

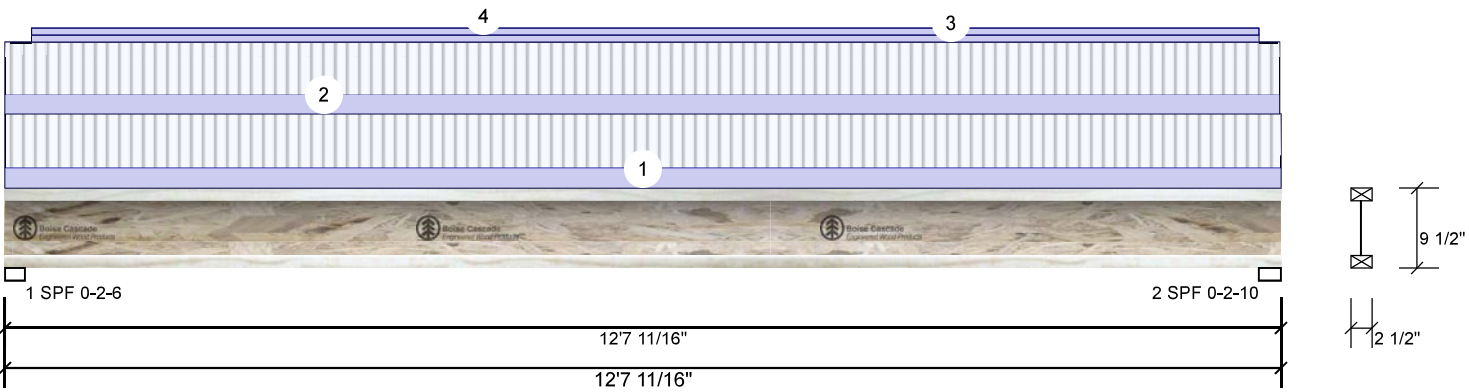
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Member Information				Unfactored Reactions UNPATTERNED lb (Uplift)					
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	288	144	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	289	145	0	0
Deflection LL:	360	Load Sharing:	No	Bearings and Factored Reactions					
Deflection TL:	240	Deck:	Not Checked						
Importance:	Normal - II	Vibration:	Not Checked	Bearing	Length	Dir.	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
General Load				1 - SPF	2.375"	Vert	37% 180 / 432	612 L	1.25D+1.5L
Floor Live:	40 PSF			2 - SPF	2.625"	Vert	36% 181 / 433	614 L	1.25D+1.5L
Dead:	15 PSF								

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1856 ft-lb	6'3 3/4"	4095 ft-lb	0.453 (45%)	1.25D+1.5L	L
Unbraced	1856 ft-lb	6'3 3/4"	4095 ft-lb	0.453 (45%)	1.25D+1.5L	L
Shear	601 lb	12'5 13/16"	1830 lb	0.328 (33%)	1.25D+1.5L	L
Perm Defl in.	0.075 (L/1986)	6'3 3/4"	0.412 (L/360)	0.181 (18%)	D	Uniform
LL Defl inch	0.147 (L/1006)	6'3 3/4"	0.412 (L/360)	0.358 (36%)	L	
TL Defl inch	0.222 (L/668)	6'3 3/4"	0.618 (L/240)	0.359 (36%)	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 bearings.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-7-11	0-6-15	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-7-9	0-6-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-3-3 to 12-5-1		Top	3 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-3-3 to 12-5-1		Top	3 PLF	0 PLF	0 PLF	0 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.

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.

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


This design is valid until 4/17/2026

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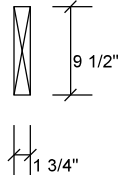
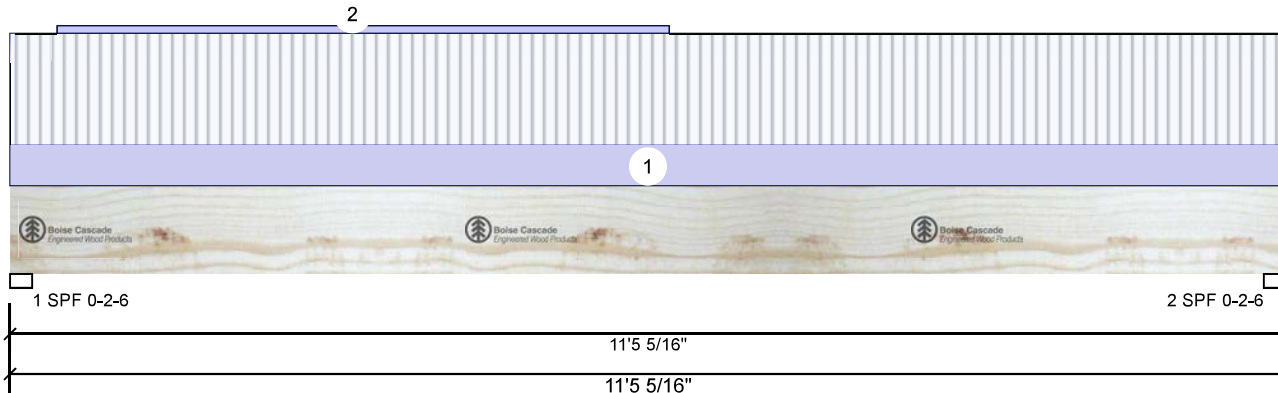
Client: GREENPARK
 Project: ZADORRA ESTATES
 Address: ZADORRA ESTATES
 OSHAWA, ON

Date: 6/27/2023
 Input by: W C
 Job Name: RIVER 2-2 STD
 Project #:

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F4 Versa Lam LVL 2.1E 3100 SP 1.750" X 9.500" - PASSED MHP 23022

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	83	62	0	0
2	Vertical	83	60	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	8%	78 / 125	203	L	1.25D+1.5L
2 - SPF	2.375"	Vert	8%	75 / 125	200	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	550 ft-lb	5'8 1/8"	11610 ft-lb	0.047 (5%)	1.25D+1.5L	L
Unbraced	550 ft-lb	5'8 1/8"	11610 ft-lb	0.047 (5%)	1.25D+1.5L	L
Shear	173 lb	11 7/8"	5287 lb	0.033 (3%)	1.25D+1.5L	L
Perm Defl in.	0.014 (L/9288)	5'8 7/16"	0.372 (L/360)	0.039 (4%)	D	Uniform
LL Defl inch	0.020 (L/6836)	5'8 11/16"	0.372 (L/360)	0.053 (5%)	L	L
TL Defl inch	0.034 (L/3938)	5'8 9/16"	0.559 (L/240)	0.061 (6%)	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.



JUNE 29, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 11-5-5	0-4-6	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-5-1 to 5-10-15		Top	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				5 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.

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

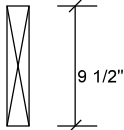
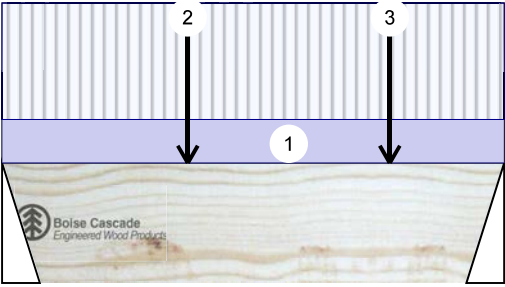
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Manufacturer Info

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





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	248	101	0	0
2	Vertical	296	119	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	9%	126 / 372	497	L	1.25D+1.5L
2 - Hanger	3.000"	Vert	10%	149 / 444	592	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	454 ft-lb	1'2 11/16"	11610 ft-lb	0.039 (4%)	1.25D+1.5L	L
Unbraced	454 ft-lb	1'2 11/16"	11610 ft-lb	0.039 (4%)	1.25D+1.5L	L
Shear	509 lb	2'3 1/4"	5287 lb	0.096 (10%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/61373)	1'7 1/2"	0.098 (L/360)	0.006 (1%)	D	Uniform
LL Defl inch	0.001 (L/24410)	1'7 7/16"	0.098 (L/360)	0.015 (1%)	L	L
TL Defl inch	0.002 (L/17464)	1'7 7/16"	0.147 (L/240)	0.014 (1%)	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: 3 1/2"
- 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	Part. Uniform	0-0-0 to 3-3-12		Top	15 PLF	40 PLF	0 PLF	0 PLF	
2	Point	1-2-11		Far Face	84 lb	225 lb	0 lb	0 lb	J2
3	Point	2-6-11		Far Face	70 lb	186 lb	0 lb	0 lb	J2
	Self Weight				5 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 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	Kott Inc. 3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400
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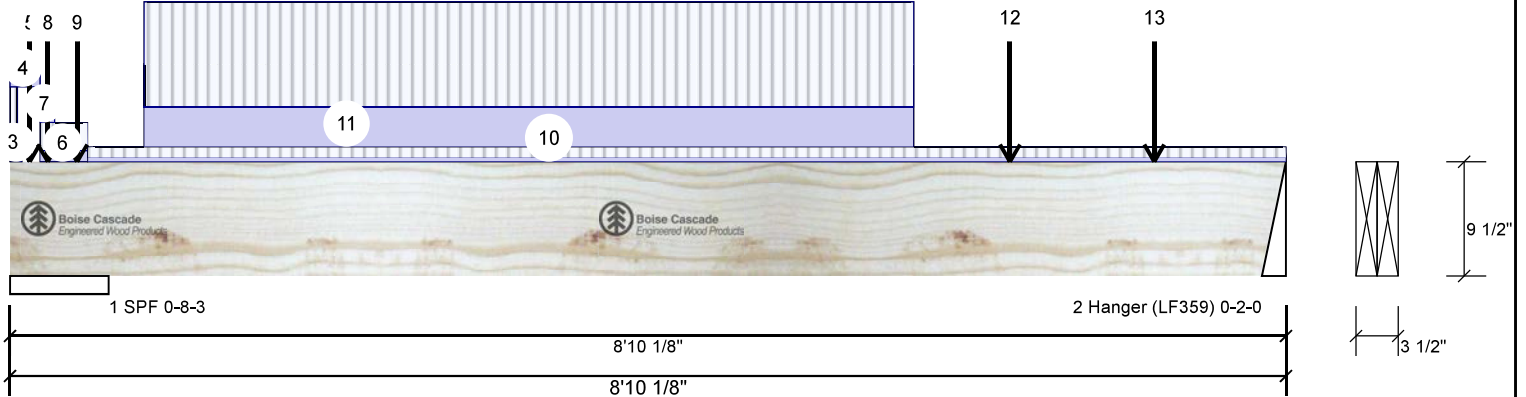
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PE: *C. Moore*
CHIEF BUILDING OFFICIAL

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

Date: 6/27/2023
Input by: W C
Job Name: RIVER 2-2 STD
Project #:

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F8 Versa Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply - **PASSED** Level: Ground Floor
MHP 23022



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	2488	1033	0	0
2	Vertical	1150	471	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	8.196"	Vert	28%	1291 / 3731	5022	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	30%	588 / 1725	2313	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4837 ft-lb	4'8 3/16"	23220 ft-lb	0.208 (21%)	1.25D+1.5L	L
Unbraced	4837 ft-lb	4'8 3/16"	23220 ft-lb	0.208 (21%)	1.25D+1.5L	L
Shear	2512 lb	7'10 5/8"	10574 lb	0.238 (24%)	1.25D+1.5L	L
Perm Defl in.	0.023 (L/4324)	4'8 3/16"	0.271 (L/360)	0.083 (8%)	D	Uniform
LL Defl inch	0.055 (L/1764)	4'8 3/16"	0.271 (L/360)	0.204 (20%)	L	
TL Defl inch	0.078 (L/1253)	4'8 3/16"	0.406 (L/240)	0.192 (19%)	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: 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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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
2	Part. Uniform	0-0-0 to 0-1-0		Top	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
3	Part. Uniform	0-0-0 to 0-0-10		Top	51 PLF	136 PLF	0 PLF	0 PLF	J4
4	Part. Uniform	0-0-0 to 0-2-8		Top	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
5	Point	0-1-10		Top	386 lb	942 lb	0 lb	0 lb	F8

Continued on page 2...

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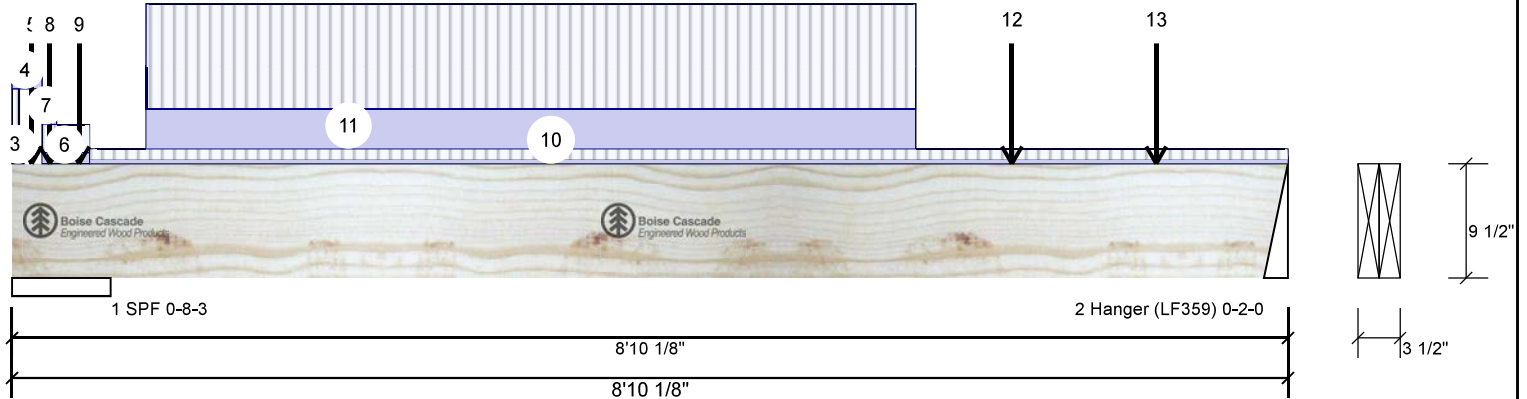
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 Project: ZADORRA ESTATES
 Address: ZADORRA ESTATES
 OSHAWA, ON

Date: 6/27/2023
 Input by: W C
 Job Name: RIVER 2-2 STD
 Project #:

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F8 Versa-Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply - PASSED Level: Ground Floor

MHP 23022



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	Bearing Length	0-5-8							
6	Tie-In	0-2-8 to 0-6-7	1-9-10	Top	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	0-2-8 to 0-3-11		Top	82 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Point	0-3-2		Far Face	90 lb	241 lb	0 lb	0 lb	J4
9	Point	0-5-9		Near Face	66 lb	162 lb	0 lb	0 lb	F6
10	Tie-In	0-6-7 to 8-10-2	0-8-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
11	Part. Uniform	0-11-2 to 6-3-2		Far Face	100 PLF	266 PLF	0 PLF	0 PLF	
12	Point	6-11-2		Far Face	116 lb	310 lb	0 lb	0 lb	J4
13	Point	7-11-2		Far Face	114 lb	305 lb	0 lb	0 lb	J4
	Self Weight				9 PLF				



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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

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
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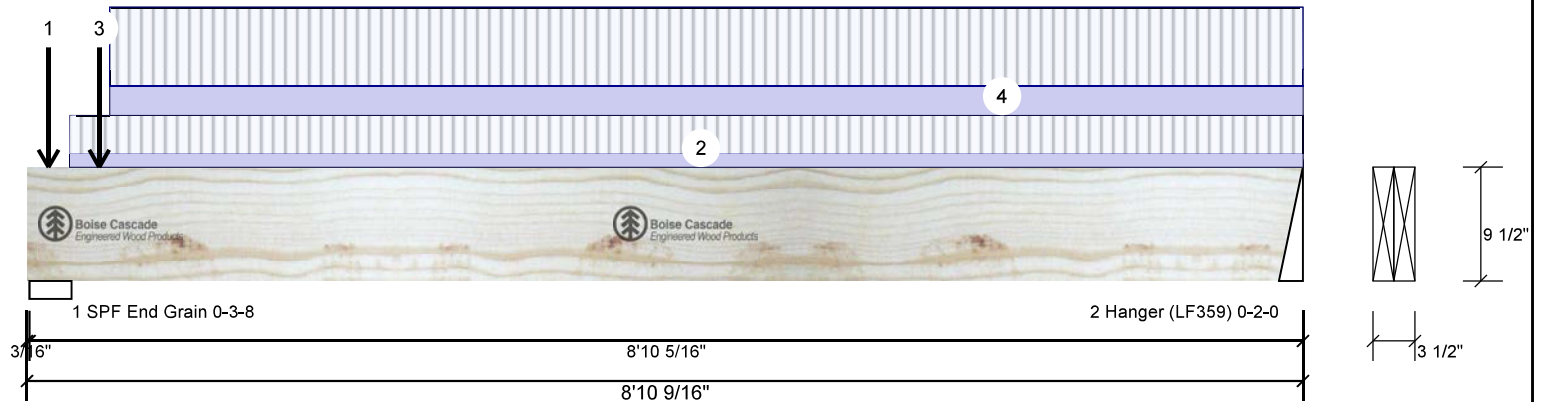
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 Project: ZADORRA ESTATES
 Address: ZADORRA ESTATES
 OSHAWA, ON

Date: 6/27/2023
 Input by: W C
 Job Name: RIVER 2-2 STD
 Project #:

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F8-B Versa-Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply - PASSED Level: Ground Floor

MHP 23022



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-1-13		Near Face	570 lb	1368 lb	0 lb	0 lb	F9
2	Tie-In	0-3-9 to 8-10-9	0-2-10	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	0-6-0		Far Face	119 lb	296 lb	0 lb	0 lb	F6
4	Tie-In	0-6-14 to 8-10-9	0-5-6	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				9 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

This design is valid until 4/17/2026

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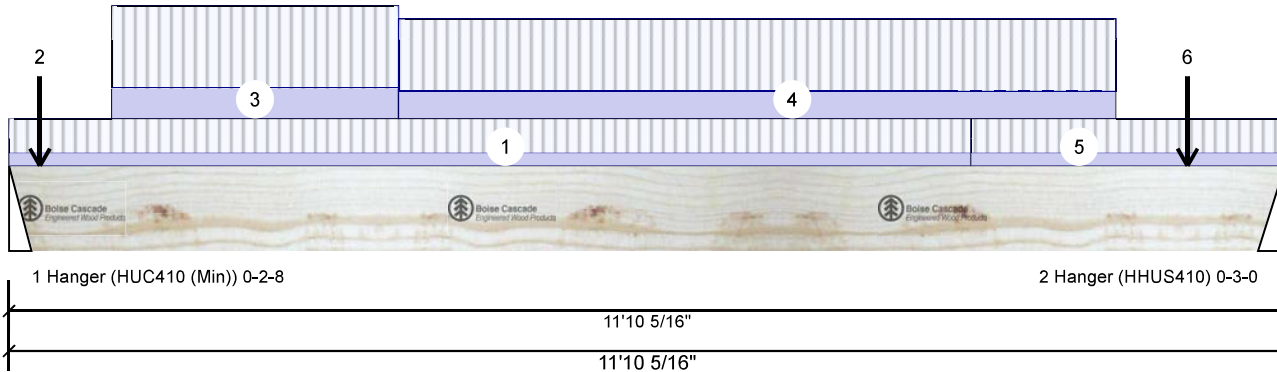
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Date: 6/27/2023
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F9-A Versa Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply PASSED Level: Ground Floor

MHP 23022



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Part. Uniform	3-7-7 to 10-3-7		Far Face	57 PLF	151 PLF	0 PLF	0 PLF	
5	Tie-In	8-11-4 to 11-10-5	1-9-8	Top	15 PSF	40 PSF	0 PSF	0 PSF	
6	Point	10-11-7		Far Face	68 lb	180 lb	0 lb	0 lb	J1
	Self Weight				9 PLF				



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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
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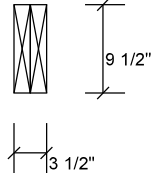
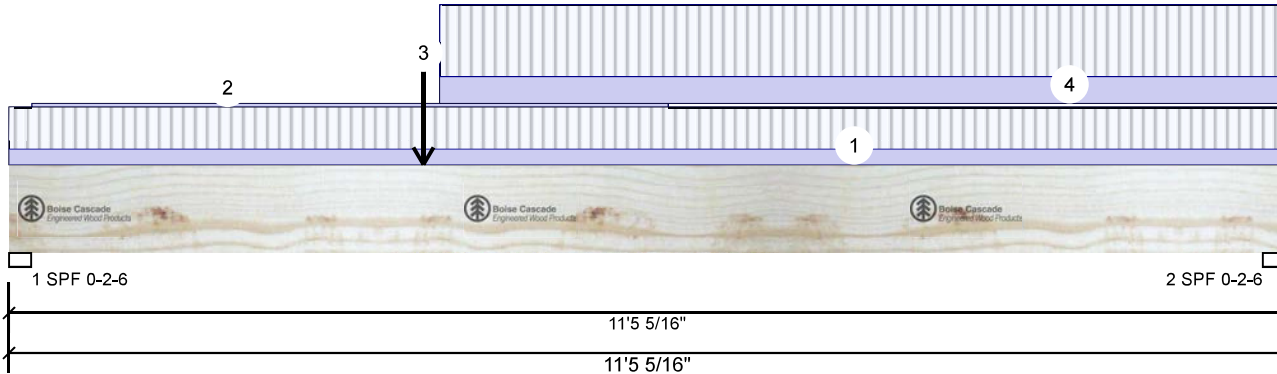
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Project #:

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F9-B Versa-Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply - PASSED Level: Ground Floor

MHP 23022



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	990	469	0	0
2	Vertical	587	294	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	40%	587 / 1484	2071	L	1.25D+1.5L
2 - SPF	2.375"	Vert	24%	368 / 880	1248	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7161 ft-lb	3'8 5/8"	23220 ft-lb	0.308 (31%)	1.25D+1.5L	L
Unbraced	7161 ft-lb	3'8 5/8"	23220 ft-lb	0.308 (31%)	1.25D+1.5L	L
Shear	2043 lb	11 7/8"	10574 lb	0.193 (19%)	1.25D+1.5L	L
Perm Defl in.	0.057 (L/2347)	5'3 7/8"	0.372 (L/360)	0.153 (15%)	D	Uniform
LL Defl inch	0.122 (L/1100)	5'3 3/8"	0.372 (L/360)	0.327 (33%)	L	L
TL Defl inch	0.179 (L/749)	5'3 9/16"	0.559 (L/240)	0.320 (32%)	D+L	L

Design Notes

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



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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 11-5-5	0-3-11	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-2-7 to 5-10-15		Top	1 PLF	0 PLF	0 PLF	0 PLF	
3	Point	3-8-10		Far Face	537 lb	1276 lb	0 lb	0 lb	F9
4	Tie-In	3-10-6 to 11-5-5	0-6-5	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				9 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.

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

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



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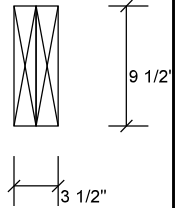
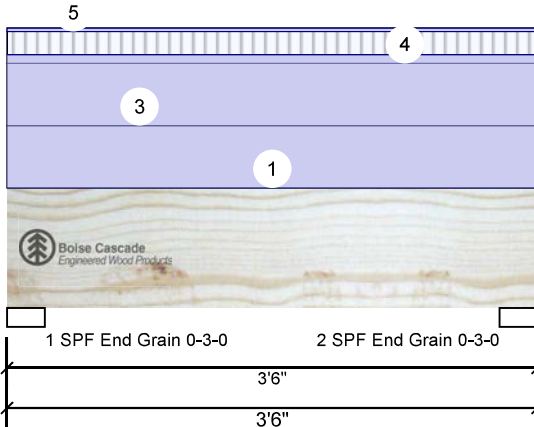
Client:	GREENPARK
Project:	ZADORRA ESTATES
Address:	ZADORRA ESTATES OSHAWA, ON

Date: 6/27/2023
Input by: W C
Job Name: RIVER 2-2 STD
Project #:

Page 23 of 29

FH7 CHIEF BUILDING OFFICIAL

~~CHIEF BUILDING OFFICIAL~~
~~FH7 Verca-Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply~~ **PASSED** Level: Ground Floor
MHP 23022



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 Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	33	213	0	0
2	Vertical	33	213	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	4%	266 / 50	316	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	4%	266 / 50	316	L	1.25D+1.5L

Analysis Results

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



JUNE 29, 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 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 3'6" o.c.
- 6 Bottom must be laterally braced at a maximum of 3'6" o.c.
- 7 Lateral slenderness ratio based on full section width.

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

Continued on page 2...

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

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



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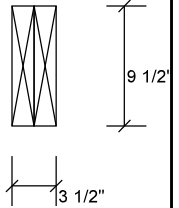
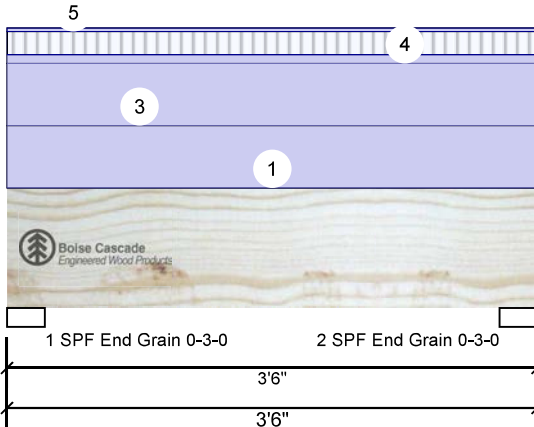
Client: GREENPARK
Project: ZADORRA ESTATES
Address: ZADORRA ESTATES
OSHAWA, ON

Date: 6/27/2023
Input by: W C
Job Name: RIVER 2-2 STD
Project #:

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PE: CHIEF BUILDING OFFICIAL

FH7 Versa-Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply PASSED MHP 23022



...Continued from page 1

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



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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

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 Project: ZADORRA ESTATES
 Address: ZADORRA ESTATES
 OSHAWA, ON

Date: 6/27/2023
 Input by: W C
 Job Name: RIVER 2-2 DC
 Project #:

Page 1 of 2

FH7-A Versa-Lam

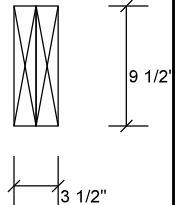
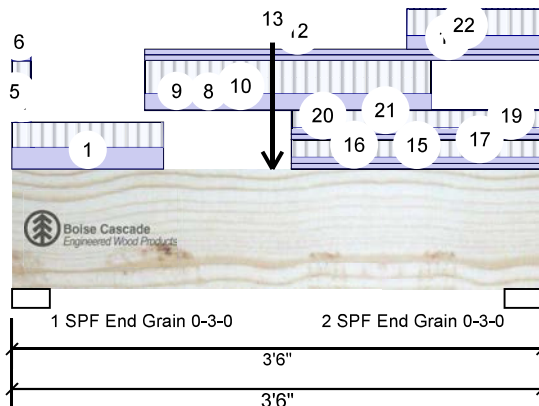
LVL 2.1E 3100 SP

1.750" X 9.500"

2-Ply - PASSED

Level: Ground Floor

MHP 23022



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	822	780	248	0
2	Vertical	1046	934	238	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	22%	975 / 1480	2456	L	1.25D+1.5L +S
2 - SPF End Grain	3.000"	Vert	27%	1168 / 1807	2975	L	1.25D+1.5L +S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2815 ft-lb	1'8 5/8"	23220 ft-lb	0.121 (12%)	1.25D+1.5L +S	L
Unbraced	2815 ft-lb	1'8 5/8"	23220 ft-lb	0.121 (12%)	1.25D+1.5L +S	L
Shear	2501 lb	1' 1/2"	10574 lb	0.237 (24%)	1.25D+1.5L +S	L
Perm Defl in.	0.003 (L/13010)	1'8 13/16"	0.104 (L/360)	0.028 (3%)	D	Uniform
LL Defl inch	0.004 (L/10456)	1'8 7/8"	0.104 (L/360)	0.034 (3%)	L+0.5S	L
TL Defl inch	0.006 (L/5797)	1'8 13/16"	0.156 (L/240)	0.041 (4%)	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 laterally braced at a maximum of 3'6" o.c.
- 6 Bottom must be laterally braced at a maximum of 3'6" o.c.
- 7 Lateral slenderness ratio based on full section width.



JUNE 29, 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

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

Kott Inc.

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



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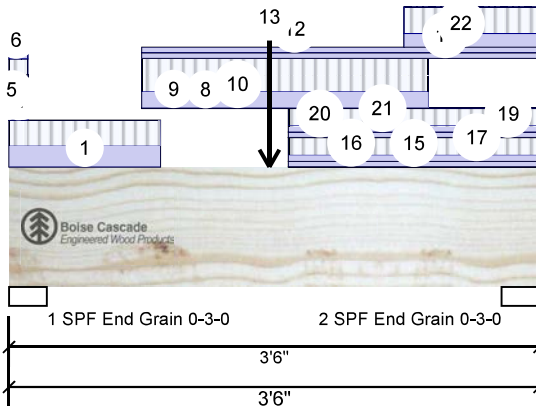
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 Project: ZADORRA ESTATES
 Address: ZADORRA ESTATES
 OSHAWA, ON

Date: 6/27/2023
 Input by: W C
 Job Name: RIVER 2-2 DC
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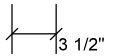
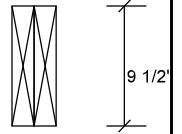
Page 2 of 2

FH7-A Versa-Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply - PASSED Level: Ground Floor

MHP 23022



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 1-0-0		Near Face	162 PLF	187 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 0-1-8		Near Face	3 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
3	Part. Uniform	0-0-0 to 0-0-0		Near Face	82 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	0-1-8			0 PLF	1 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 0-1-8		Near Face	123 PLF	248 PLF	0 PLF	0 PLF	J4
6	Part. Uniform	0-0-0 to 0-1-8		Near Face	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Part. Uniform	0-0-0 to 0-1-8		Top	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Part. Uniform	0-10-8 to 3-6-0		Near Face	3 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
9	Tapered Start	0-10-8		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	3-6-0			0 PLF	1 PLF	0 PLF	0 PLF	
10	Part. Uniform	0-10-8 to 2-9-3		Near Face	123 PLF	248 PLF	0 PLF	0 PLF	J4
11	Part. Uniform	0-10-8 to 3-6-0		Near Face	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
12	Part. Uniform	0-10-8 to 3-6-0		Top	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
13	Point	1-8-10		Top	648 lb	576 lb	486 lb	0 lb	Header Column Header Column
	Bearing Length	0-3-8							
15	Part. Uniform	1-10-2 to 3-6-0		Top	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
16	Part. Uniform	1-10-2 to 3-6-0		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
17	Part. Uniform	1-10-2 to 3-6-0		Top	48 PLF	128 PLF	0 PLF	0 PLF	J4
19	Part. Uniform	1-10-2 to 3-6-0		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
20	Part. Uniform	1-10-2 to 3-6-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
21	Part. Uniform	1-10-2 to 3-6-0		Near Face	48 PLF	128 PLF	0 PLF	0 PLF	J4
22	Part. Uniform	2-7-4 to 3-6-0		Near Face	102 PLF	198 PLF	0 PLF	0 PLF	J4
	Self Weight				9 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.

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

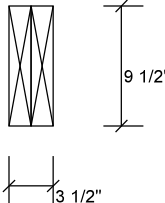
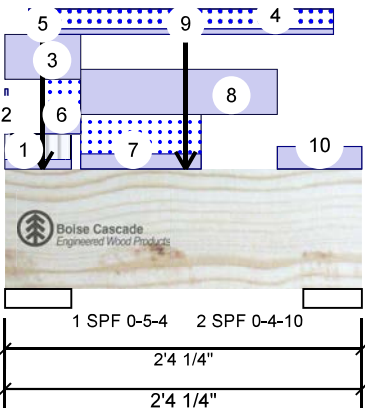
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Manufacturer Info

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 CCMC: 12472

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





Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 CBC 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	315	486	473	0
2	Vertical	115	141	52	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	14%	607 / 1024	1631	L	1.25D+1.5S +L
2 - SPF	4.625"	Vert	4%	176 / 224	400	L	1.25D+1.5L +S

Analysis Results


Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	265 ft-lb	1'2 5/16"	23220 ft-lb	0.011 (1%)	1.25D+1.5L +S	L
Unbraced	265 ft-lb	1'2 5/16"	23220 ft-lb	0.011 (1%)	1.25D+1.5L +S	L
Shear	238 lb	1'2 1/8"	9728 lb	0.024 (2%)	1.25D+1.5L	L
Perm Defl in. (L/224658)	0.000	1'2 5/16"	0.055 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch (L/164211)	0.000	1'2 5/16"	0.055 (L/360)	0.002 (0%)	L+0.5S	L
TL Defl inch (L/94868)	0.000	1'2 5/16"	0.083 (L/240)	0.003 (0%)	D+L+0.5S	L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 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 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.	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 
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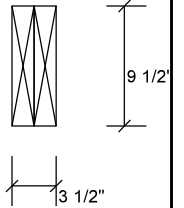
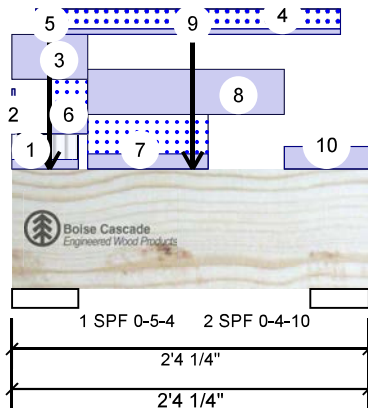
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 Project: ZADORRA ESTATES
 Address: ZADORRA ESTATES
 OSHAWA, ON

Date: 6/27/2023
 Input by: W C
 Job Name: RIVER 2-2 STD
 Project #:

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F12 Versa Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply - PASSED Level: Second Floor

MHP 23022



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-5-4	1-1-10	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 0-0-4		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-0-0 to 0-6-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-1-14 to 2-2-0		Top	10 PLF	0 PLF	35 PLF	0 PLF	
5	Point	0-3-0		Top	294 lb	177 lb	381 lb	0 lb	F14
	Bearing Length	0-5-8							
6	Part. Uniform	0-3-0 to 0-6-0		Top	27 PLF	0 PLF	70 PLF	0 PLF	
7	Part. Uniform	0-6-0 to 1-3-8		Top	27 PLF	0 PLF	70 PLF	0 PLF	
8	Part. Uniform	0-6-0 to 1-9-9		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Point	1-2-5		Near Face	87 lb	233 lb	0 lb	0 lb	J2
10	Part. Uniform	1-9-9 to 2-4-4		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	Self Weight				9 PLF				



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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

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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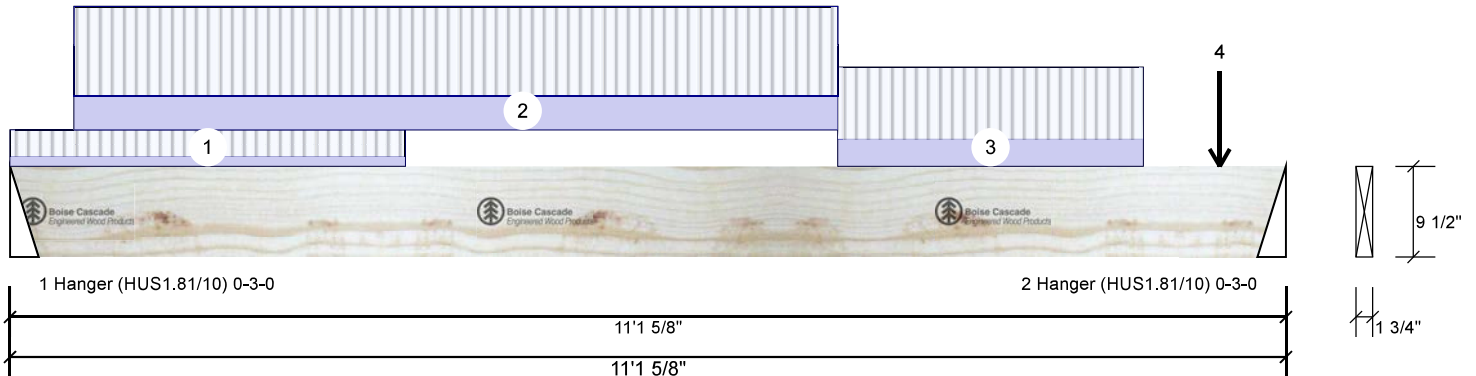
Nov 23 2023

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

Date: 6/27/2023
Input by: W C
Job Name: RIVER 2-2 STD
Project #:

Page 27 of 29

F4 A Versa Lam LVL 2.1E 3100 SP 1.750" X 9.500" - PASSED MHP 23022 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	782	320	0	0
2	Vertical	666	276	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	27%	399 / 1172	1572	L	1.25D+1.5L
2 - Hanger	3.000"	Vert	23%	345 / 999	1344	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3972 ft-lb	5'3 9/16"	11610 ft-lb	0.342 (34%)	1.25D+1.5L	L
Unbraced	3972 ft-lb	5'3 9/16"	11610 ft-lb	0.342 (34%)	1.25D+1.5L	L
Shear	1455 lb	10'1 1/8"	5287 lb	0.275 (28%)	1.25D+1.5L	L
Perm Defl in.	0.065 (L/1997)	5'6"	0.359 (L/360)	0.180 (18%)	D	Uniform
LL Defl inch	0.158 (L/819)	5'5 15/16"	0.359 (L/360)	0.440 (44%)	L	
TL Defl inch	0.222 (L/581)	5'5 15/16"	0.538 (L/240)	0.413 (41%)	D+L	L

Design Notes

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



JUNE 29, 2023

READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTES: EWP-FLOORS. THE NOTE
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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 3-5-7		Top	15 PLF	40 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-6-11 to 7-2-11		Far Face	51 PLF	136 PLF	0 PLF	0 PLF	
3	Part. Uniform	7-2-11 to 9-10-11		Far Face	41 PLF	109 PLF	0 PLF	0 PLF	
4	Point	10-6-11		Far Face	42 lb	112 lb	0 lb	0 lb	J5
	Self Weight				5 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.

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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Nov 23 2023

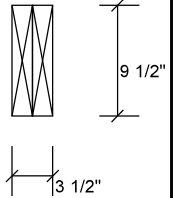
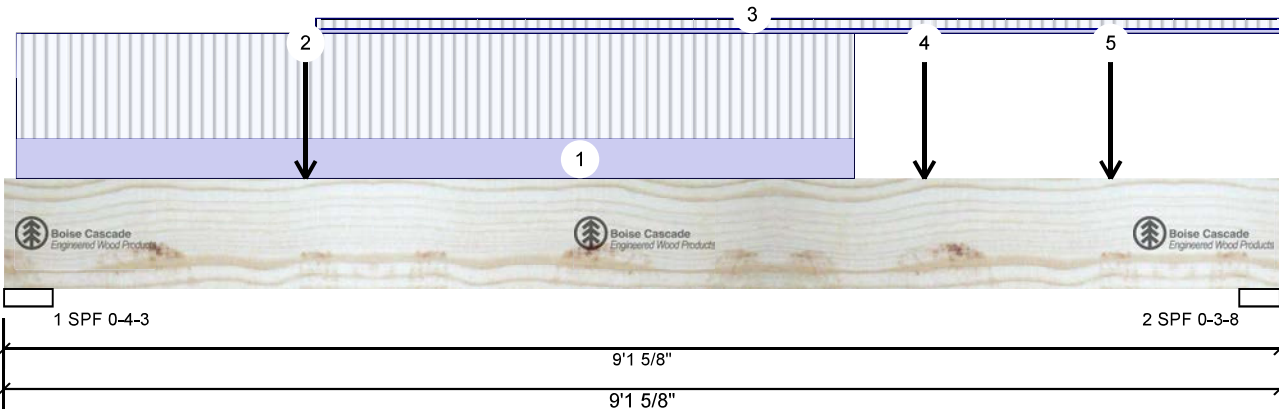
Client: GREENPARK
 Project: ZADORRA ESTATES
 Address: ZADORRA ESTATES
 OSHAWA, ON

Date: 6/27/2023
 Input by: W C
 Job Name: RIVER 2-2 STD
 Project #:

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F8-A Verso Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply - PASSED Level: Second Floor

MHP 23022



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	1883	772	0	0
2	Vertical	1348	555	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	4.188"	Vert	42%	964 / 2825	3789	L	1.25D+1.5L
2 - SPF	3.500"	Vert	36%	694 / 2022	2716	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6999 ft-lb	4' 1/2"	23220 ft-lb	0.301 (30%)	1.25D+1.5L	L
Unbraced	6999 ft-lb	4' 1/2"	23220 ft-lb	0.301 (30%)	1.25D+1.5L	L
Shear	3234 lb	1'1 11/16"	10574 lb	0.306 (31%)	1.25D+1.5L	L
Perm Defl in.	0.037 (L/2785)	4'5 11/16"	0.287 (L/360)	0.129 (13%)	D	Uniform
LL Defl inch	0.091 (L/1137)	4'5 11/16"	0.287 (L/360)	0.317 (32%)	L	L
TL Defl inch	0.128 (L/808)	4'5 11/16"	0.431 (L/240)	0.297 (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 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.
- 7 Lateral slenderness ratio based on full section width.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-1-1 to 6-1-1		Far Face	100 PLF	266 PLF	0 PLF	0 PLF	
2	Point	2-1-15		Near Face	320 lb	782 lb	0 lb	0 lb	F4
3	Tie-In	2-2-13 to 9-1-10	0-8-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	6-7-1		Far Face	116 lb	310 lb	0 lb	0 lb	J4
5	Point	7-11-1		Far Face	133 lb	354 lb	0 lb	0 lb	J4
	Self Weight				9 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

This design is valid until 4/17/2026

Manufacturer Info

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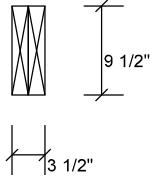
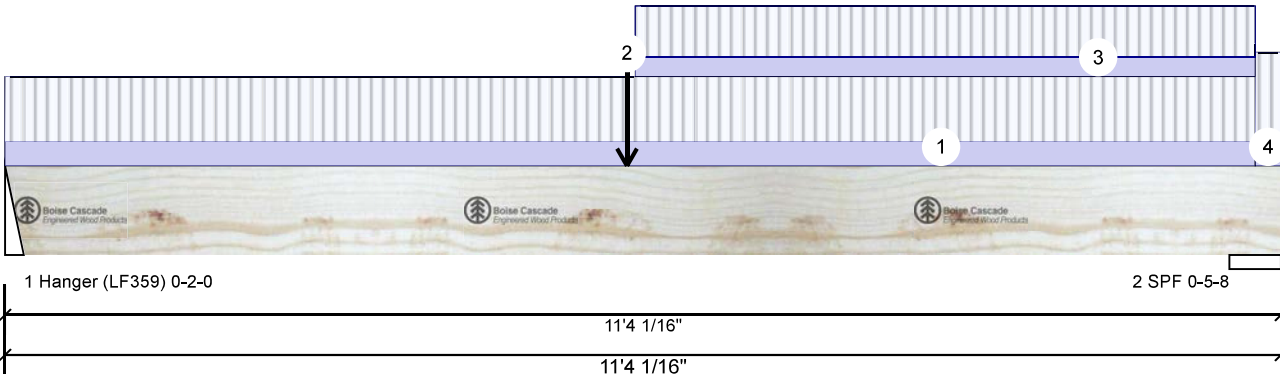
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OSHAWA, ON

Date: 6/27/2023
Input by: W C
Job Name: RIVER 2-2 STD
Project #:

Page 29 of 29

F9 Versa-Lam LVL 2.1E 3100 SP 1.750" X 9.500" 2-Ply - PASSED Level: Second Floor

MHP 23022



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	453	235	0	0
2	Vertical	502	256	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	13%	294 / 680	974	L	1.25D+1.5L
2 - SPF	5.500"	Vert	9%	320 / 753	1073	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4549 ft-lb	5'6 5/16"	23220 ft-lb	0.196 (20%)	1.25D+1.5L	L
Unbraced	4549 ft-lb	5'6 5/16"	23220 ft-lb	0.196 (20%)	1.25D+1.5L	L
Shear	991 lb	10'1 1/16"	10574 lb	0.094 (9%)	1.25D+1.5L	L
Perm Defl in.	0.036 (L/3647)	5'6 3/8"	0.361 (L/360)	0.099 (10%)	D	Uniform
LL Defl inch	0.074 (L/1760)	5'6 3/8"	0.361 (L/360)	0.204 (20%)	L	
TL Defl inch	0.110 (L/1187)	5'6 3/8"	0.542 (L/240)	0.202 (20%)	D+L	L

Design Notes

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



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 11-1-5	0-5-8	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	5-6-5		Far Face	276 lb	666 lb	0 lb	0 lb	F4
3	Tie-In	5-7-3 to 11-1-5	0-4-6	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	11-1-5 to 11-4-1	0-7-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				9 PLF				

Notes

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