iStructDesign

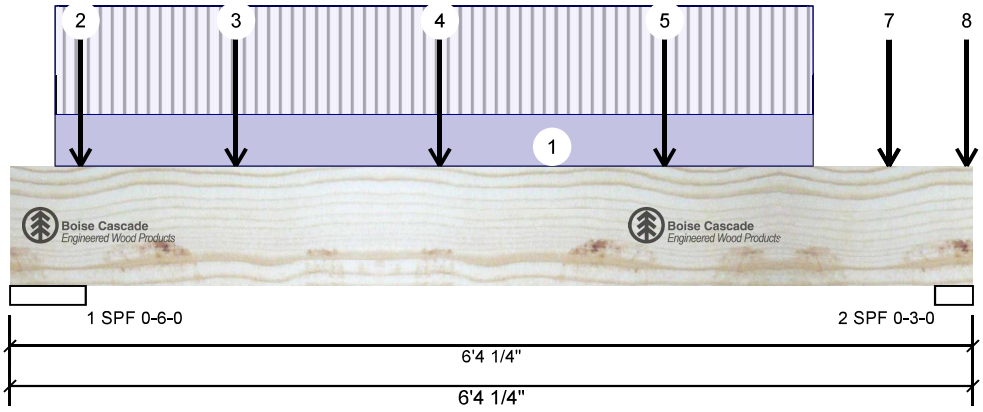
Client: GREENPARK
Project: ZADORRA ESTATES
Address: ZADORRA ESTATES OSHAWA

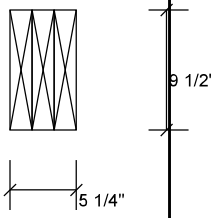
Date: 7/5/2023
Input by: W C
Job Name: RIVER 6-2 STD & DC
MHP 23025 Project #:

CONFIRMATION OF THE CITY OF OSHAWA
THIS COPY
OF PERMIT PLANS
Nov 04 2023
PER:
CHIEF BUILDING OFFICIAL

F7-A Versa-Lam LVL 2.1E 3100 SP 1 3-Ply - PASSED

Level: Ground Floor





Member Information

Type:	Girder
Plies:	3
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	Yes
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1475	656	0	0
2	Vertical	4559	1943	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	6.000"	Vert	16%	820 / 2213	3034	L	1.25D+1.5L
2 - SPF	3.000"	Vert	96%	2429 / 6838	9266	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3638 ft-lb	3'1"	36222 ft-lb	0.100 (10%)	1.25D+1.5L	L
Unbraced	3638 ft-lb	3'1"	36222 ft-lb	0.100 (10%)	1.25D+1.5L	L
Shear	3066 lb	5'3 3/4"	15860 lb	0.193 (19%)	1.25D+1.5L	L
Perm Defl in.	0.006 (L/11147)	3'3 5/8"	0.191 (L/360)	0.032 (3%)	D	Uniform
LL Defl inch	0.014 (L/5010)	3'3 5/8"	0.191 (L/360)	0.072 (7%)	L	L
TL Defl inch	0.020 (L/3457)	3'3 5/8"	0.286 (L/240)	0.069 (7%)	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.

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 05, 2023

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-3-9 to 5-3-9		Far Face	87 PLF	183 PLF	0 PLF	0 PLF	
2	Point	0-5-10		Near Face	117 lb	309 lb	0 lb	0 lb	J4
3	Point	1-5-14		Near Face	126 lb	335 lb	0 lb	0 lb	F4
4	Point	2-10-0		Near Face	122 lb	326 lb	0 lb	0 lb	J3
5	Point	4-3-13		Near Face	154 lb	411 lb	0 lb	0 lb	F4

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

KOTT

CSD DRAW DESIGN BUILD

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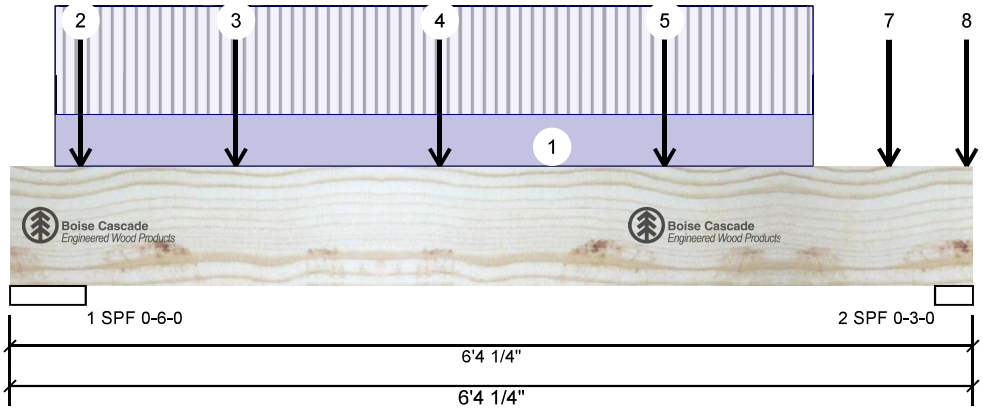

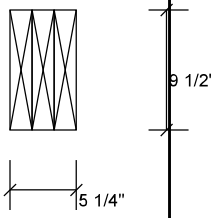

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
6	Point	5-9-9		Far Face	73 lb	157 lb	0 lb	0 lb	J2
7	Point	5-9-10		Near Face	138 lb	368 lb	0 lb	0 lb	J4
8	Point	6-3-12		Top	1344 lb	3213 lb	0 lb	0 lb	C3
	Bearing Length	0-3-8							
	Self Weight				14 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

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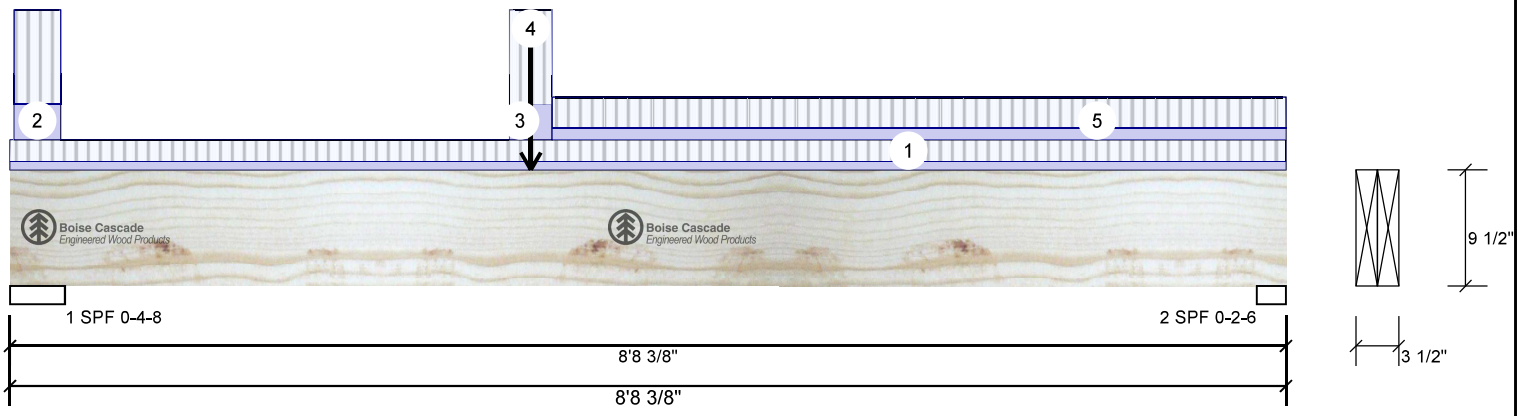
F8-A Versa-Lam LVL 2.1E 3100 SP 1 2-Ply - PASSED

Level: Ground Floor



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	290	160	0	0
2	Vertical	260	144	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	4.500"	Vert	7%	200 / 435	636	L	1.25D+1.5L
2 - SPF	2.398"	Vert	11%	180 / 390	570	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1624 ft-lb	3'6 5/8"	23220 ft-lb	0.070 (7%)	1.25D+1.5L	L
Unbraced	1624 ft-lb	3'6 5/8"	23220 ft-lb	0.070 (7%)	1.25D+1.5L	L
Shear	546 lb	1'2"	10574 lb	0.052 (5%)	1.25D+1.5L	L
Perm Defl in.	0.008 (L/11691)	4'4"	0.275 (L/360)	0.031 (3%)	D	Uniform
LL Defl inch	0.016 (L/6192)	4'3 13/16"	0.275 (L/360)	0.058 (6%)	L	L
TL Defl inch	0.024 (L/4048)	4'3 13/16"	0.412 (L/240)	0.059 (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 Multiple plies must be fastened together as per manufacturer's details.
4 Top loads must be supported equally by all plies.
5 Top must be continuously laterally braced.
6 Bottom must be laterally braced at a maximum of 5'1 13/16" o.c.
7 Lateral slenderness ratio based on full section width.

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 04, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 8-8-6	0-5-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-5 to 0-4-2	1-10-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	3-4-14 to 3-8-6	1-10-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	3-6-10		Far Face	104 lb	236 lb	0 lb	0 lb	F6
5	Tie-In	3-8-6 to 8-8-6	0-7-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	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

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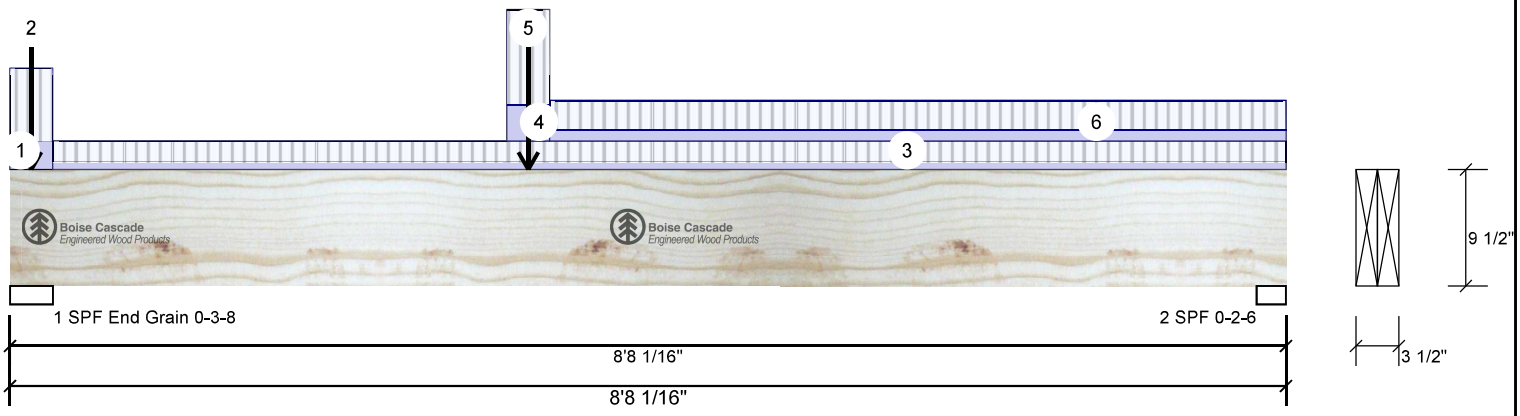
MHP 23025 Project #:

F8-B Versa-Lam LVL 2.1E 3100 SP 2-Ply - PASSED

Level: Ground Floor



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	540	266	0	0
2	Vertical	254	142	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	9%	333 / 810	1143	L	1.25D+1.5L
2 - SPF	2.398"	Vert	11%	178 / 380	558	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1629 ft-lb	3'6 5/16"	23220 ft-lb	0.070 (7%)	1.25D+1.5L	L
Unbraced	1629 ft-lb	3'6 5/16"	23220 ft-lb	0.070 (7%)	1.25D+1.5L	L
Shear	539 lb	1'1"	10574 lb	0.051 (5%)	1.25D+1.5L	L
Perm Defl in.	0.009 (L/11595)	4'3 5/16"	0.277 (L/360)	0.031 (3%)	D	Uniform
LL Defl inch	0.016 (L/6188)	4'3 1/16"	0.277 (L/360)	0.058 (6%)	L	L
TL Defl inch	0.025 (L/4035)	4'3 1/8"	0.415 (L/240)	0.059 (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 Multiple plies must be fastened together as per manufacturer's details.
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LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
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PROVINCE OF ONTARIO
JULY 04, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-3-8	1-5-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-1-12		Far Face	113 lb	268 lb	0 lb	0 lb	F6
3	Tie-In	0-3-8 to 8-8-1	0-4-13	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	3-4-8 to 3-8-0	1-10-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
5	Point	3-6-4		Near Face	106 lb	240 lb	0 lb	0 lb	F6

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

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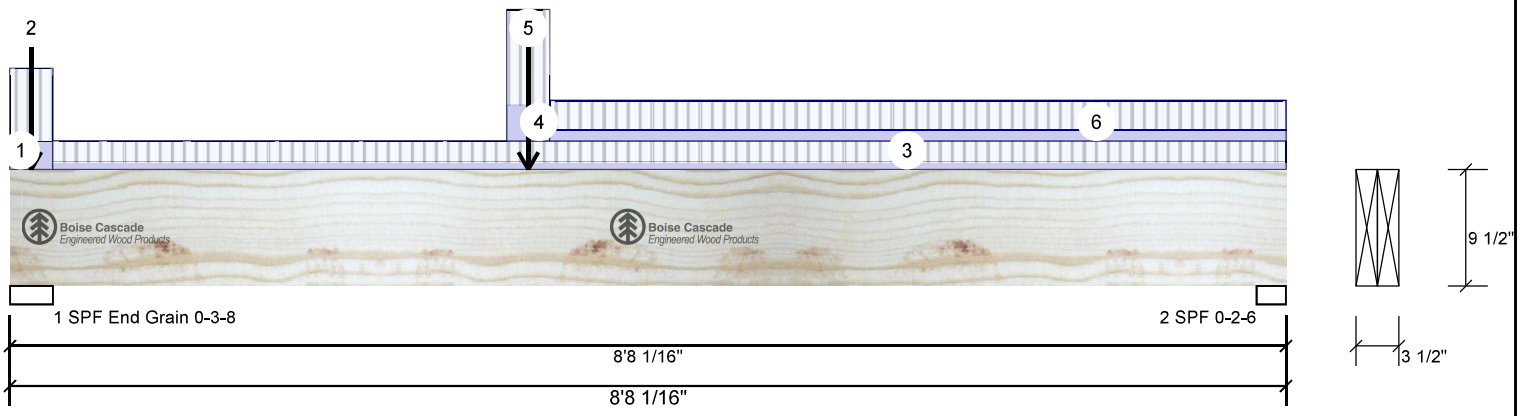
Level: Ground Floor



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
6	Tie-In	3-8-0 to 8-8-1	0-6-13	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				9 PLF				

JULY 04, 2023

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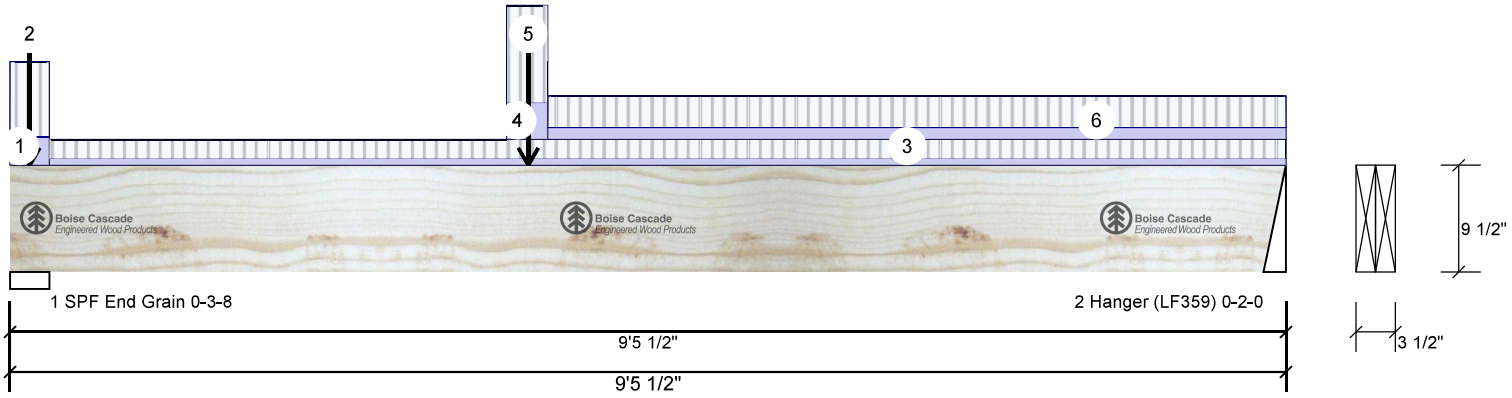
Level: Ground Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	570	281	0	0
2	Vertical	266	151	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	9%	351 / 855	1206	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	8%	188 / 399	588	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1873 ft-lb	3'10 1/8"	23220 ft-lb	0.081 (8%)	1.25D+1.5L	L
Unbraced	1873 ft-lb	3'10 1/8"	23220 ft-lb	0.081 (8%)	1.25D+1.5L	L
Shear	566 lb	1'1"	10574 lb	0.054 (5%)	1.25D+1.5L	L
Perm Defl in.	0.012 (L/9097)	4'8 3/16"	0.304 (L/360)	0.040 (4%)	D	Uniform
LL Defl inch	0.022 (L/4909)	4'7 15/16"	0.304 (L/360)	0.073 (7%)	L	L
TL Defl inch	0.034 (L/3188)	4'8 1/16"	0.456 (L/240)	0.075 (8%)	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 be laterally braced at a maximum of 5'7 7/16" 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 0-3-8	1-5-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-1-12		Near Face	120 lb	288 lb	0 lb	0 lb	F6
3	Tie-In	0-3-8 to 9-5-8	0-4-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	3-8-3 to 3-11-14	1-10-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 2...

Notes

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Lumber

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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

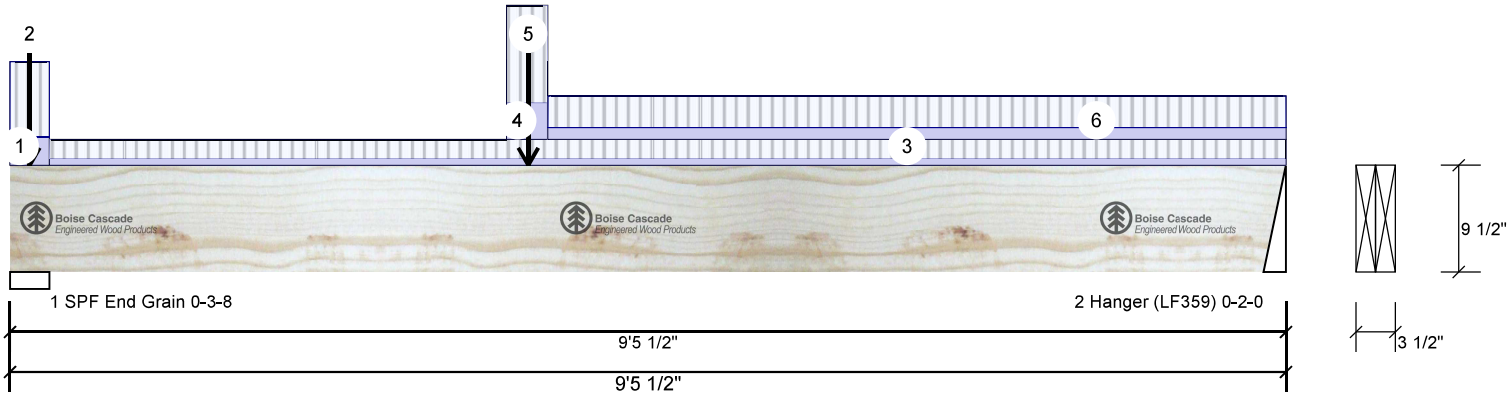
KOTT
CSD DRAW DESIGN BUILD

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

Date: 7/3/2023
Input by: W C
Job Name: RIVER 6-2 STD & DC
Project #: MHP 23025

F8-C Versa-Lam LVL 2.1E 3100 SP 2-Ply - PASSED

Level: Ground Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Point	3-10-2		Far Face	110 lb	249 lb	0 lb	0 lb	F6
6	Tie-In	3-11-14 to 9-5-8	0-7-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				9 PLF				

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 04, 2023

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

Notes

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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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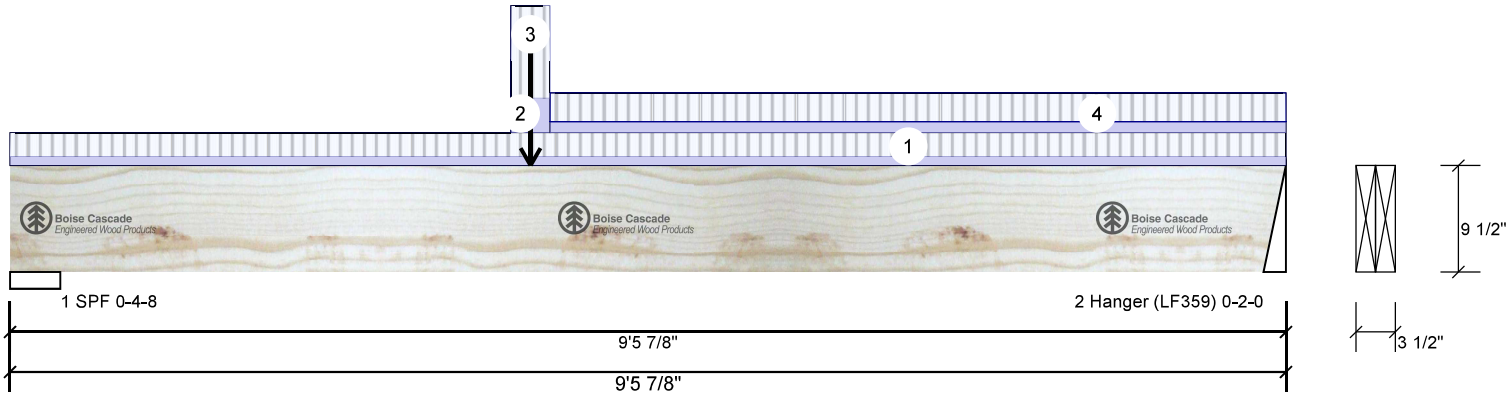
CCMC: 12472

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

Client:	GREENPARK	Date:	7/3/2023
Project:	ZADORRA ESTATES	Input by:	W C
Address:	ZADORRA ESTATES OSHAWA	Job Name:	RIVER 6-2 STD & DC
		Project #:	MHP 23025

F8-D Versa-Lam LVL 2.1E 3100 SP 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	295	167	0	0
2	Vertical	285	157	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	4.500"	Vert	7%	208 / 442	650	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	8%	197 / 427	624	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1947 ft-lb	3'10 7/16"	23220 ft-lb	0.084 (8%)	1.25D+1.5L	L
Unbraced	1947 ft-lb	3'10 7/16"	23220 ft-lb	0.084 (8%)	1.25D+1.5L	L
Shear	602 lb	1'2"	10574 lb	0.057 (6%)	1.25D+1.5L	L
Perm Defl in.	0.012 (L/8860)	4'8 7/8"	0.302 (L/360)	0.041 (4%)	D	Uniform
LL Defl inch	0.023 (L/4689)	4'8 5/8"	0.302 (L/360)	0.077 (8%)	L	L
TL Defl inch	0.036 (L/3066)	4'8 11/16"	0.454 (L/240)	0.078 (8%)	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 be laterally braced at a maximum of 5'7 7/16" o.c.
9. Lateral slenderness ratio based on full section width.

JULY 04, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 9-5-14	0-5-11	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	3-8-11 to 4-0-3	1-10-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	3-10-7		Near Face	111 lb	252 lb	0 lb	0 lb	F6
4	Tie-In	4-0-3 to 9-5-14	0-6-15	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	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

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CCMC: 12472

Kott Inc.
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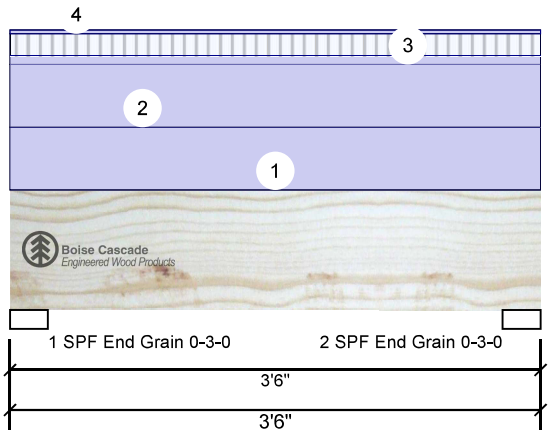
Client: GREENPARK
Project: ZADORRA ESTATES
Address: ZADORRA ESTATES OSHAWA

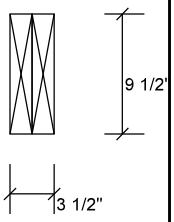
Date: 7/3/2023
Input by: W C
Job Name: RIVER 6-2 STD & DC
Project #: MHP 23025

CONFIRMATION OF THE CITY OF OSHAWA
CERTIFIED COPY OF PERMIT PLANS
Nov 04 2023
PER: CHIEF BUILDING OFFICIAL

FH5 Versa-Lam LVL 2.1E 3100 SP 1 2-Ply - PASSED

Level: Ground Floor





Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	32	213	0	0
2	Vertical	32	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 / 47	313	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	4%	266 / 47	313	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	218 ft-lb	1'9"	15093 ft-lb	0.014 (1%)	1.25D+1.5L	L
Unbraced	218 ft-lb	1'9"	15093 ft-lb	0.014 (1%)	1.25D+1.5L	L
Shear	218 lb	1' 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/464113)	1'9"	0.104 (L/360)	0.001 (0%)	L	L
TL Defl inch	0.001 (L/59900)	1'9"	0.156 (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 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.

JULY 04, 2023

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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
2	Part. Uniform	0-0-0 to 3-6-0		Near Face	51 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Near Face	7 PLF	18 PLF	0 PLF	0 PLF	
	End	3-6-0			7 PLF	18 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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Lumber

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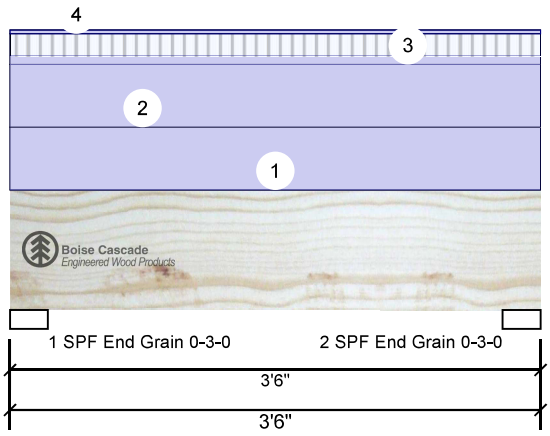
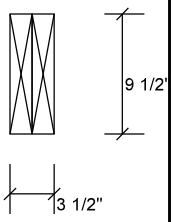
Client: GREENPARK
Project: ZADORRA ESTATES
Address: ZADORRA ESTATES OSHAWA

Date: 7/3/2023
Input by: W C
Job Name: RIVER 6-2 STD & DC
MHP 23025 Project #:

FH5 Versa-Lam LVL 2.1E 3100 SP 1 2-Ply - PASSED

Level: Ground Floor





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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	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				

JULY 04, 2023

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Second Floor

Multi-Ply Fastening

Second Floor

F14

Fasten all plies using 2 rows of SDW22634 at 24" o.c. except for regions covered by concentrated load fastening.

Fasten at concentrated side load each side of concentrated load at 14-0-15 with 1 column 2 rows of SDW22634

Installation Guide

(Open your phone's camera and hover over this QR code to access it)

1. All blocking to be cut from 12' joists
2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
3. Ends of joists to be laterally supported
4. Packing of Steel beams and attachment by others
5. Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations
6. Beams identified as "B" are dropped and supplied by others
7. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
8. Load transfer blocks to be installed under all point loads
9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements
10. Hangers and Fasteners to be installed as per manufacturer
11. Framing shown on this layout may deviate from architectural drawings. Arch / Eng to review and approve the deviation prior to construction.
12. Multi ply beams with side loading to have all fasteners installed with the head on the side of the applied load
13. Confirmation of adequate support & anchorage of components is the responsibility of the building designer; suggested uplift connectors are as shown
14. Where beam hangs on side of 3-ply member, it is recommended that the equivalent quantity and size of nails required for the hanger attachment also be installed on opposite side of the 3-ply member

Second Floor

LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
F14	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	1	4	4	16-0-0
F12	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	1	2	2	16-0-0
F11	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	2	2	4	14-0-0
F13	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	1	3	3	12-0-0
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5	1	2	2	10-0-0
F10	Versa-Lam LVL 2.1E 3100 SP	1.75	9.5			1	6-0-0

I Joist (Flush)

Label	Description	Width	Depth	Pcs	Length
J4	AJS 140	2.5	9.5	43	14-0-0
J3	AJS 140	2.5	9.5	19	12-0-0
J2	AJS 140	2.5	9.5	26	10-0-0
J5	AJS 140	2.5	9.5	8	4-0-0
J6	AJS 140	2.5	9.5	2	2-0-0

Rim Board

Label	Description	Width	Depth	Pcs	Length
R1	Norbord Rimboard Plus 1.125 X 9.5	1.125	9.5	14	12-0-0

Blocking

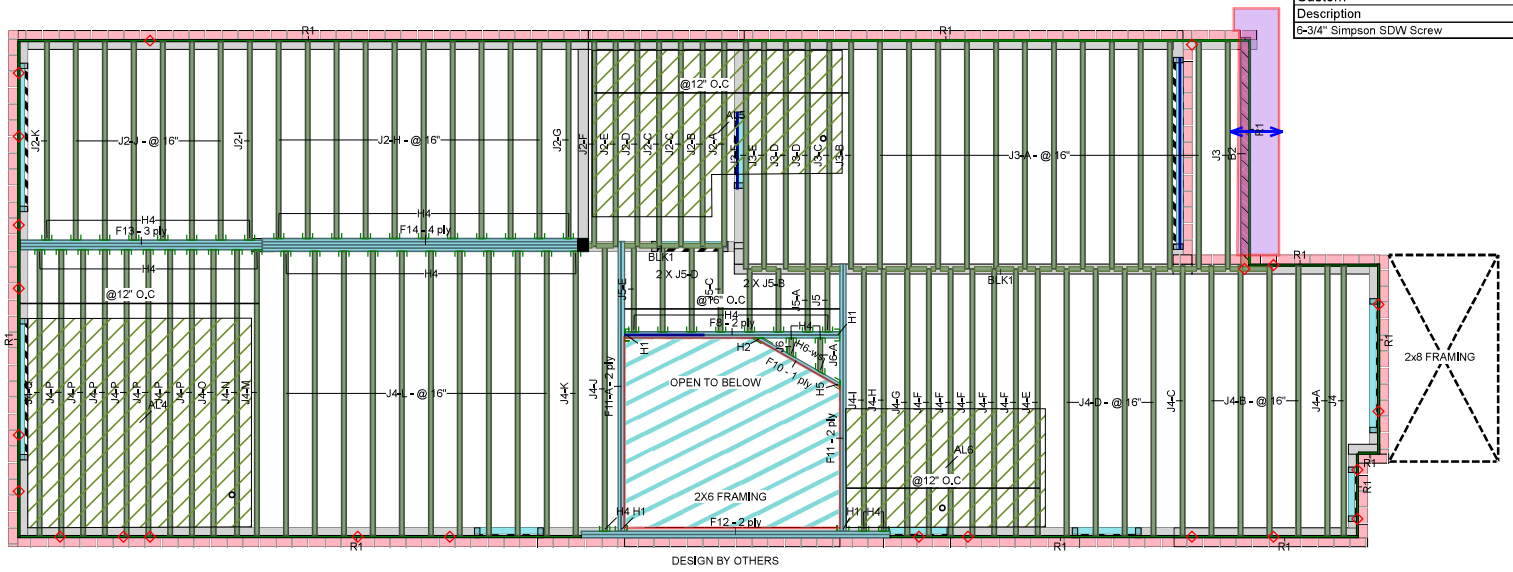
Label	Description	Width	Depth	Qty	Pcs	Length
BLK1	AJS 140	2.5	9.5	LinFt	Varies	21-0-0

Hanger

Label	Pcs	Description	Skew	Slope	Beam/Girder fasteners	Supported Member fasteners
H1	4	LF359			10 10d	2 #8x1 1/4WS
H2	1	LSSR1.81Z-R	Var	Var	13 10dx2 1/2	9 10dx1 1/2
H4	54	LF259			10 10d	1 #8x1 1/4WS
H5	1	LSSR1.81Z-L	Var	Var	13 10dx2 1/2	9 10dx1 1/2
H6	2	LSSR2.56Z-R	Var	Var	13 10dx2 1/2	9 10dx1 1/2

Custom

Description	Pcs
6-3/4" Simpson SDW Screw	18



Hatch Area represents where additional load has been applied. (e.g. 5 psf for ceramic tile)

JOB INFORMATION

Builder
GREENPARK

Project

Shipping
ZADORRA ESTATES
OSHAWA,ON

Sales Rep

Designer
W C

Plotted
July 05, 2023

Layout Name
RIVER 6-2 STD & DC

Job Path
S:\CUSTOMERS\GREENPARK\ZADORRA ESTATES\MODELS\RIVER 6\RIVER 6-2\F-RIVER 6-2\RIVER 6-2 STD & DC.isl

DESIGN CRITERIA

Second Floor

Design Method: LSD (Canada)
Building Code: NBCC 2015
OBC 2012(2020 Update)

Floor Loads

Live 40
Dead 15

Deflection Joi
LL Span L/ 360
TL Span L/ 240

Deflection Flu
LL Span L/ 360
TL Span L/ 240

Deflection Dro der
LL Span L/ 360
TL Span L/ 240

Deflection Header
LL Span L/ 360
TL Span L/ 240

Decking
Decking OSB
Thickness 5/8"
Fastener Nailed & Glued

PER: CHIEF BUILDING OFFICIAL
Nov 04 2023
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CORPORATION OF THE CITY OF OSHAWA

MHP 23025

CCMC References

Boise - 12472-R , 12787-R
LP - 12412-R, Roseburg - 13310-R
Forex - 14056-R

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

KOTT

Legend

WS	Web Stiffener
-ws	In Hanger Label Denotes Web Stiffener
PS	Point Load Support
◇	Load from Above
	Wall
	Wall Opening
	Norbord Rimboard Plus 1.125 X 9.5
	AJS 140 9.5
	Versa-Lam LVL 2.1E 3100 SP 1.75 X 9.5
	1.75 X 9.5 (Dropped)
	5.25 X 8 (Dropped)

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

Date: 7/3/2023
Input by: W C
Job Name: RIVER 6-2 STD & DC
MHP 23025 Project #:

CONFIRMATION OF THE CITY OF OSHAWA
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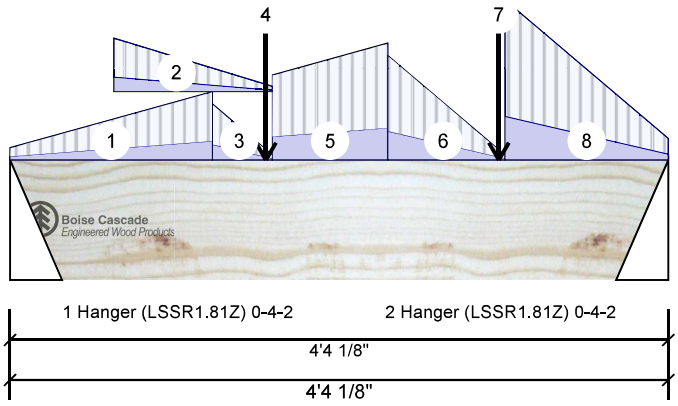
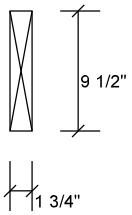
Nov 04 2023
PER:
CHIEF BUILDING OFFICIAL

F10 Versa-Lam LVL 2.1E 3100 SP 00" - PASSED

Level: Second Floor





Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	58	32	0	0
2	Vertical	80	40	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	4.125"	Vert	2%	40 / 88	128	L	1.25D+1.5L
2 - Hanger	4.125"	Vert	2%	51 / 120	171	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	144 ft-lb	2'2 3/4"	11610 ft-lb	0.012 (1%)	1.25D+1.5L	L
Unbraced	144 ft-lb	2'2 3/4"	11610 ft-lb	0.012 (1%)	1.25D+1.5L	L
Shear	116 lb	3'2 1/2"	5287 lb	0.022 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/126762)	2'2 3/8"	0.126 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/63209)	2'2 7/16"	0.126 (L/360)	0.006 (1%)	L	L
TL Defl inch	0.001 (L/42178)	2'2 7/16"	0.189 (L/240)	0.006 (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 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.

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 04, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-4-0	0-1-0 to 0-5-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-8-3 to 1-8-12	0-4-6 to 0-0-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	1-4-0 to 1-8-12	0-4-9 to 0-0-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	

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

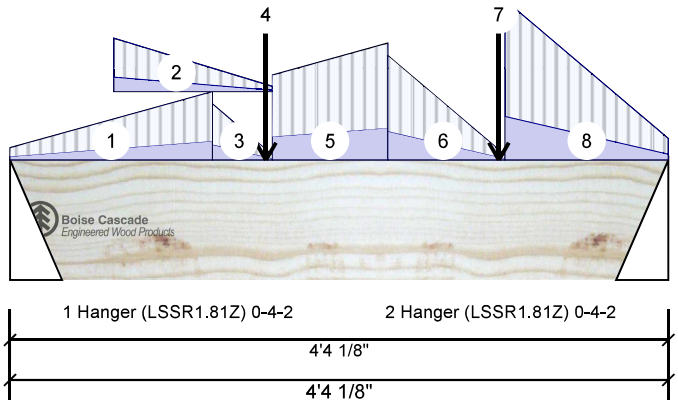
Kott Inc.
3228 Moodie Dr, Ottawa, Ontario
613-838-2775 / 905-642-4400

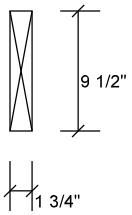
Client: GREENPARK
Project: ZADORRA ESTATES
Address: ZADORRA ESTATES OSHAWA

Date: 7/3/2023
Input by: W C
Job Name: RIVER 6-2 STD & DC
MHP 23025 Project #:

F10 Versa-Lam LVL 2.1E 3100 SP 00" - PASSED

Level: Second Floor





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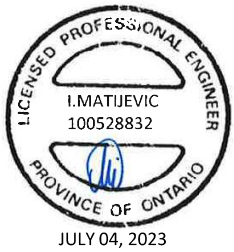
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Point	1-8-4		Far Face	7 lb	19 lb	0 lb	0 lb	J6
5	Tie-In	1-8-12 to 2-5-15	0-6-15 to 0-9-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
6	Tie-In	2-5-15 to 3-3-3	0-8-9 to 0-0-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
7	Point	3-2-11		Far Face	13 lb	34 lb	0 lb	0 lb	J6
8	Tie-In	3-3-3 to 4-4-2	1-1-1 to 0-1-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				5 PLF				



JULY 04, 2023

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isDesign

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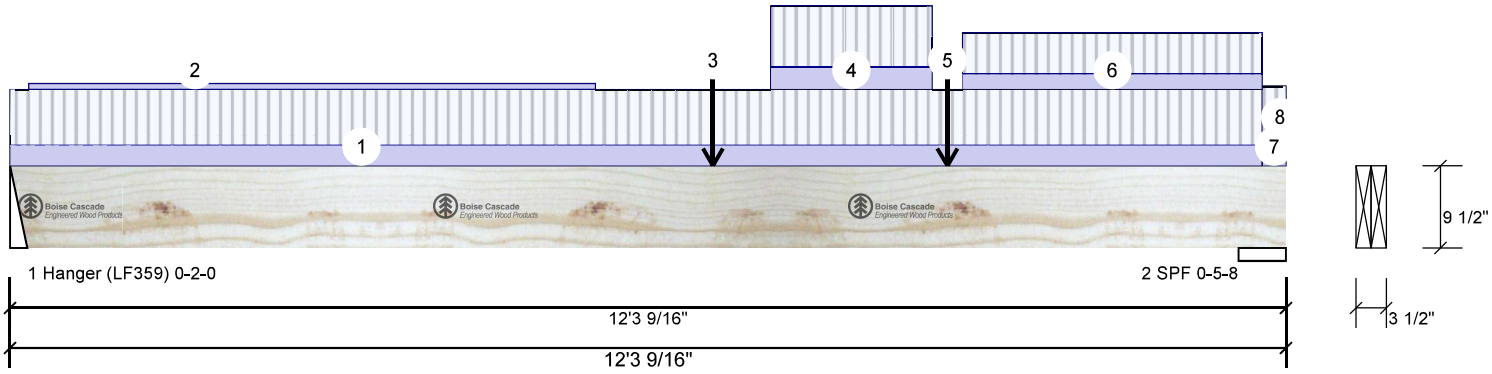
Address: ZADORRA ESTATES OSHAWA

Date: 7/3/2023
Input by: W C
Job Name: RIVER 6-2 STD & DC
Project #: MHP 23025

CONFIRMATION OF THE CITY OF OSHAWA
A TRUE COPY
OF PERMIT PLANS
Nov 04 2023
PER:
CHIEF BUILDING OFFICIAL

F11 Versa-Lam LVL 2.1E 3100 SP 1.75" x 9.25" 2-Ply - PASSED

Level: Second Floor



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	272	184	0	0
2	Vertical	558	317	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	8%	230 / 408	638	L	1.25D+1.5L
2 - SPF	5.500"	Vert	10%	396 / 837	1233	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3169 ft-lb	8'4"	23220 ft-lb	0.136 (14%)	1.25D+1.5L	L
Unbraced	3169 ft-lb	8'4"	23220 ft-lb	0.136 (14%)	1.25D+1.5L	L
Shear	1152 lb	11' 9/16"	10574 lb	0.109 (11%)	1.25D+1.5L	L
Perm Defl in.	0.038 (L/3771)	6'4 7/16"	0.393 (L/360)	0.095 (10%)	D	Uniform
LL Defl inch	0.063 (L/2236)	6'5 5/8"	0.393 (L/360)	0.161 (16%)	L	L
TL Defl inch	0.101 (L/1404)	6'5 1/8"	0.590 (L/240)	0.171 (17%)	D+L	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2. Fill all hanger nailing holes.
3. Left Header: DF, Thickness: 3 1/2"
4. Girders are designed to be supported on the bottom edge only.
5. Multiple plies must be fastened together as per manufacturer's details.
6. Top loads must be supported equally by all plies.
7. Top must be continuously laterally braced.
8. Bottom must be laterally braced at a maximum of 6'7 13/16" o.c.
9. Lateral slenderness ratio based on full section width.

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 04, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-0-13	0-5-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-2-3 to 5-7-11		Top	2 PLF	0 PLF	0 PLF	0 PLF	
3	Point	6-9-5		Far Face	40 lb	80 lb	0 lb	0 lb	F10
4	Tie-In	7-4-0 to 8-10-11	0-6-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 2...

Notes

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Lumber

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Handling & Installation

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

CSD DRAW DESIGN BUILD

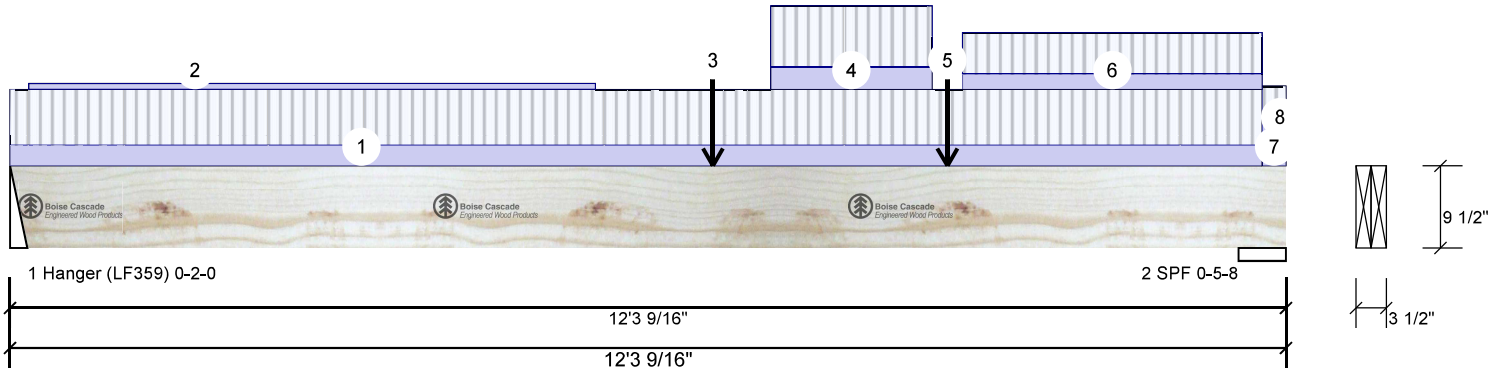
iStructDesign

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

Date: 7/3/2023
Input by: W C
Job Name: RIVER 6-2 STD & DC
Project #: MHP 23025

F11 Versa-Lam LVL 2.1E 3100 SP 1.75" x 9.25" 2-Ply - PASSED

Level: Second Floor



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Point	9-0-7		Far Face	218 lb	440 lb	0 lb	0 lb	F8
6	Tie-In	9-2-3 to 12-0-13	0-4-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
7	Tie-In	12-0-13 to 12-3-9	0-2-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
8	Tie-In	12-0-13 to 12-3-9	0-3-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				9 PLF				

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 04, 2023

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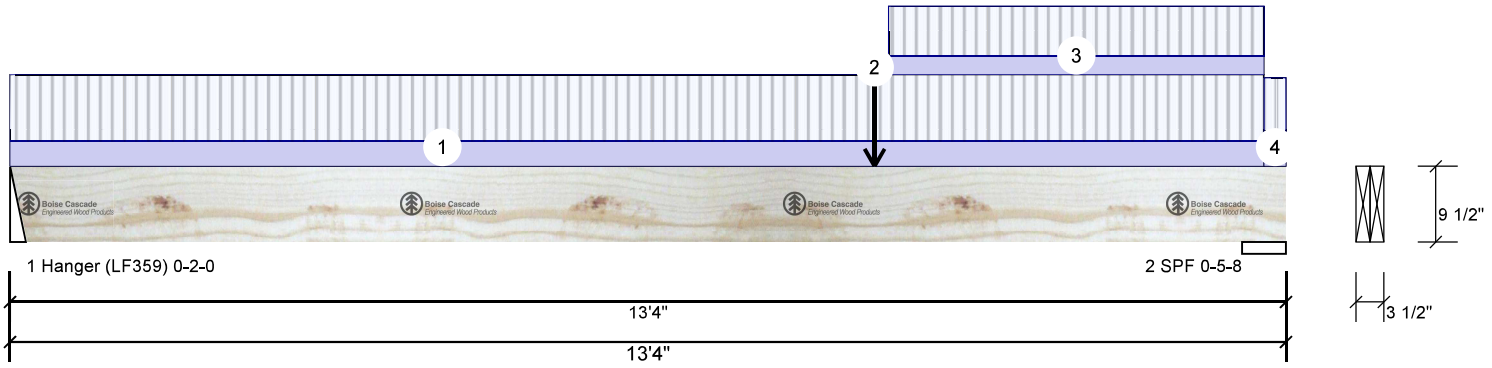
CONFIRMATION OF THE CITY OF OSHAWA
ARCHIVE COPY
OF PERMIT PLANS
Nov 04 2023
PER:
CHIEF BUILDING OFFICIAL

F11-A Versa-Lam LVL 2.1E 3100 SP 1.[illegible]2-Ply - PASSED

Level: Second Floor



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	312	195	0	0
2	Vertical	613	331	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%	243 / 468	711	L	1.25D+1.5L
2 - SPF	5.500"	Vert	11%	414 / 920	1335	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4640 ft-lb	9' 7/16"	23220 ft-lb	0.200 (20%)	1.25D+1.5L	L
Unbraced	4640 ft-lb	9' 7/16"	23220 ft-lb	0.200 (20%)	1.25D+1.5L	L
Shear	1269 lb	12'1"	10574 lb	0.120 (12%)	1.25D+1.5L	L
Perm Defl in.	0.055 (L/2809)	6'11 5/8"	0.428 (L/360)	0.128 (13%)	D	Uniform
LL Defl inch	0.100 (L/1537)	7' 13/16"	0.428 (L/360)	0.234 (23%)	L	L
TL Defl inch	0.155 (L/994)	7' 7/16"	0.642 (L/240)	0.242 (24%)	D+L	L

Design Notes

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

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 04, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 13-1-4	0-4-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	9-0-7		Near Face	307 lb	677 lb	0 lb	0 lb	F8
3	Tie-In	9-2-3 to 13-1-4	0-3-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	13-1-4 to 13-4-0	0-4-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	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
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KOTT
CSD DRAW DESIGN BUILD

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

Date: 7/3/2023
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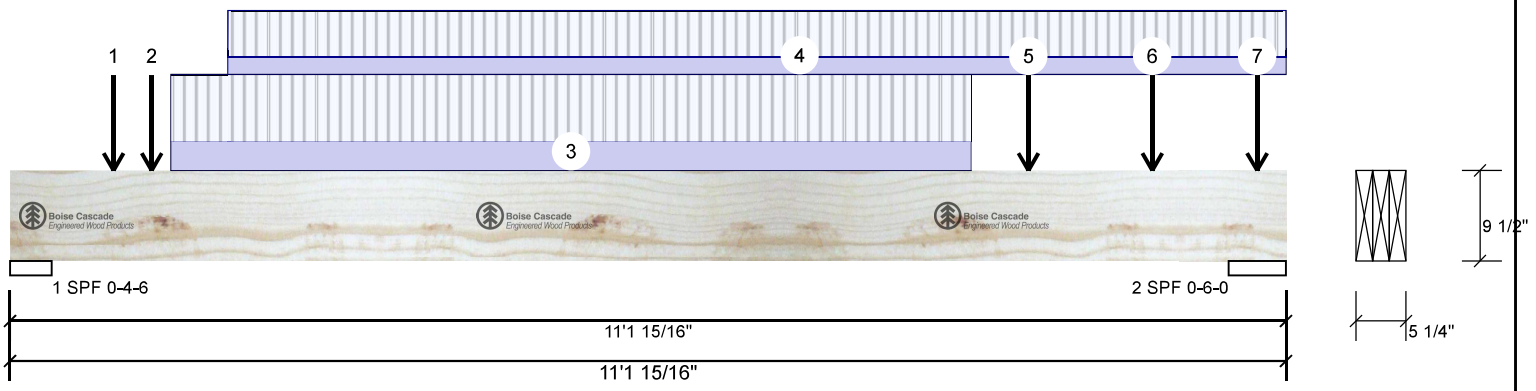
Job Name: RIVER 6-2 STD & DC
Project #: MHP 23025

F13 Versa-Lam LVL 2.1E 3100 SP 1.75" x 9.25" 3-Ply - PASSED

Level: Second Floor



Member Information

Type:	Girder
Plies:	3
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	Yes
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	2199	978	0	0
2	Vertical	2483	1091	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	4.375"	Vert	32%	1223 / 3299	4522	L	1.25D+1.5L
2 - SPF	6.010"	Vert	26%	1364 / 3725	5088	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12186 ft-lb	5'6 3/16"	36222 ft-lb	0.336 (34%)	1.25D+1.5L	L
Unbraced	12186 ft-lb	5'6 3/16"	36222 ft-lb	0.336 (34%)	1.25D+1.5L	L
Shear	4796 lb	1'1 7/8"	15860 lb	0.302 (30%)	1.25D+1.5L	L
Perm Defl in.	0.066 (L/1907)	5'6 3/16"	0.347 (L/360)	0.189 (19%)	D	Uniform
LL Defl inch	0.149 (L/841)	5'6 3/16"	0.347 (L/360)	0.428 (43%)	L	L
TL Defl inch	0.214 (L/584)	5'6 3/16"	0.521 (L/240)	0.411 (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 Girders are designed to be supported on the bottom edge only.
3 Multiple plies must be fastened together as per manufacturer's details.
4 Top must be continuously laterally braced.
5 Bottom must have sheathing attached or be continuously braced.
6 Lateral slenderness ratio based on full section width.

JULY 04, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-10-14		Near Face	110 lb	253 lb	0 lb	0 lb	J4
2	Point	1-2-14		Far Face	88 lb	234 lb	0 lb	0 lb	J2
3	Part. Uniform	1-4-14 to 8-4-14		Near Face	112 PLF	259 PLF	0 PLF	0 PLF	
4	Part. Uniform	1-10-14 to 11-1-15		Far Face	67 PLF	180 PLF	0 PLF	0 PLF	
5	Point	8-10-14		Near Face	120 lb	270 lb	0 lb	0 lb	J4
6	Point	9-11-14		Near Face	116 lb	259 lb	0 lb	0 lb	J4

Continued on page 2...

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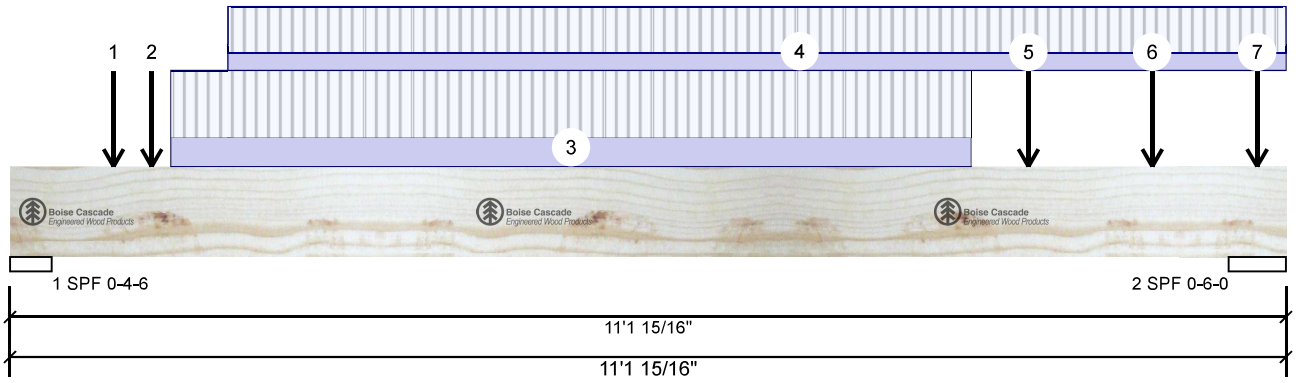
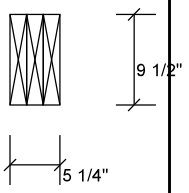
Level: Second Floor





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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
7	Point	10-10-14		Near Face	73 lb	188 lb	0 lb	0 lb	J4
	Self Weight				14 PLF				

I.MATIJEVIC
100528832
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO
JULY 04, 2023

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CCMC: 12472

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

iStruct Design

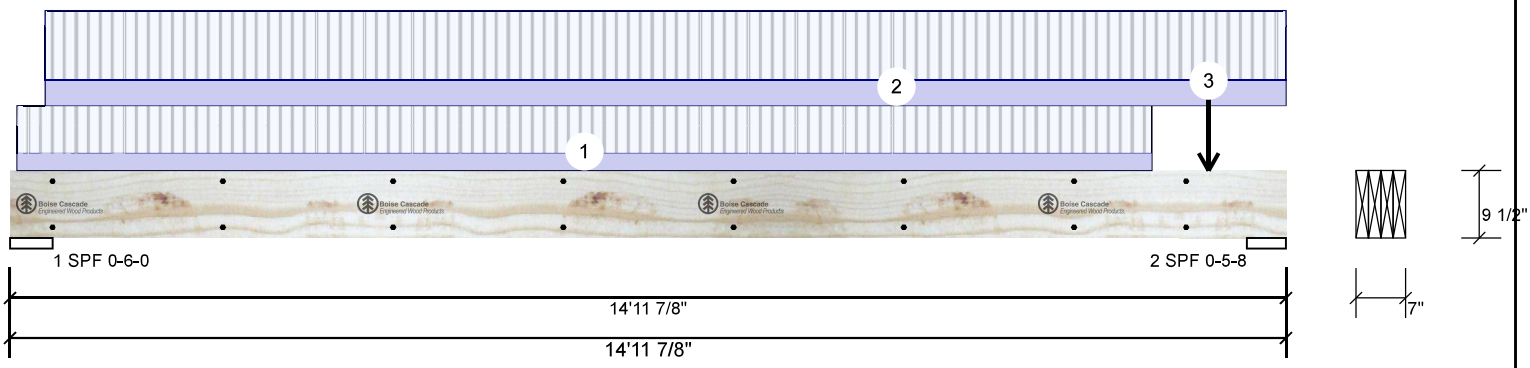
Client: GREENPARK
Project: ZADORRA ESTATES
Address: ZADORRA ESTATES OSHAWA

Date: 7/3/2023
Input by: W C
Job Name: RIVER 6-2 STD & DC
Project #: MHP 23025

CONFIRMATION OF THE CITY OF OSHAWA
THIS IS A COPY OF PERMIT PLANS
Nov 04 2023
PER:
CHIEF BUILDING OFFICIAL

F14 Versa-Lam LVL 2.1E 3100 SP 1.75" x 11.875" 4-Ply - PASSED

Level: Second Floor



Member Information

Type:	Girder
Plies:	4
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	Yes
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	3155	1322	0	0
2	Vertical	3203	1340	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	6.000"	Vert	25%	1652 / 4732	6384	L	1.25D+1.5L
2 - SPF	5.500"	Vert	27%	1675 / 4805	6480	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	22070 ft-lb	7'6 3/16"	48297 ft-lb	0.457 (46%)	1.25D+1.5L	L
Unbraced	22070 ft-lb	7'6 3/16"	48297 ft-lb	0.457 (46%)	1.25D+1.5L	L
Shear	6511 lb	13'8 7/8"	21147 lb	0.308 (31%)	1.25D+1.5L	L
Perm Defl in.	0.157 (L/1081)	7'6 1/4"	0.472 (L/360)	0.333 (33%)	D	Uniform
LL Defl inch	0.377 (L/451)	7'6 1/8"	0.472 (L/360)	0.798 (80%)	L	L
TL Defl inch	0.534 (L/318)	7'6 1/4"	0.708 (L/240)	0.754 (75%)	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 Fasten all plies using 2 rows of SDW22634 at 24" o.c. Maximum end distance not to exceed 12".
3 Refer to last page of calculations for fasteners required for specified loads.
4 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
5 Simpson fasteners applied from a single side of the member use tip values where published.
6 Girders are designed to be supported on the bottom edge only.
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.

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 04, 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

This design is valid until 4/17/2026

Manufacturer Info

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

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KOTT
CSD DRAW DESIGN BUILD

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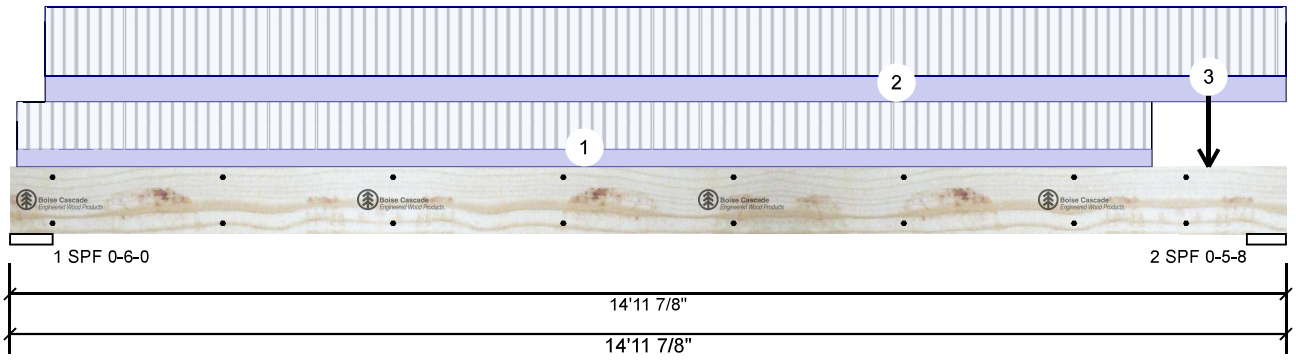
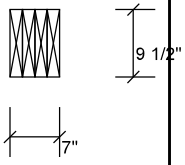
Project: ZADORRA ESTATES
Address: ZADORRA ESTATES OSHAWA

Date: 7/3/2023
Input by: W C
Job Name: RIVER 6-2 STD & DC
Project #: MHP 23025

F14 Versa-Lam LVL 2.1E 3100 SP 1.[illegible] 4-Ply - PASSED

Level: Second Floor





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-15 to 13-4-15		Far Face	66 PLF	177 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-4-15 to 14-11-14		Near Face	97 PLF	259 PLF	0 PLF	0 PLF	
3	Point	14-0-15		Far Face	84 lb	223 lb	0 lb	0 lb	J2
	Self Weight				19 PLF				

JULY 04, 2023

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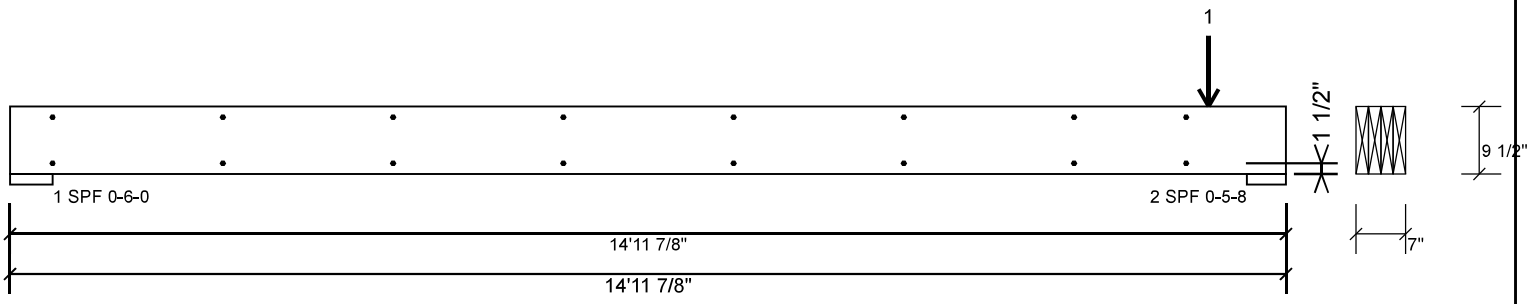
Project:	ZADORRA ESTATES	Input by:	W C
Address:	ZADORRA ESTATES OSHAWA	Job Name:	RIVER 6-2 STD & DC
	MHP 23025	Project #:	

F14 Versa-Lam LVL 2.1E 3100 SP 1.75" x 14" 4-Ply - PASSED

Level: Second Floor



Multi-Ply Analysis

Fasten all plies using 2 rows of SDW22634 at 24" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 12".

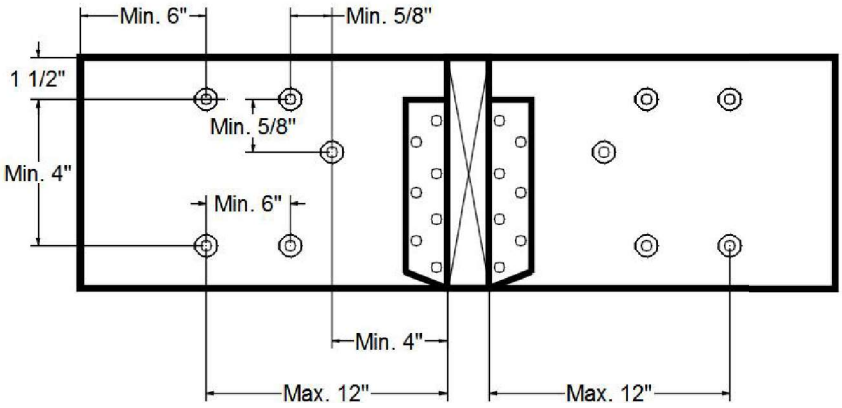
Capacity	92.1 %
Load	382.3 PLF
Yield Limit per Foot	415.0 PLF
Yield Limit per Fastener	415.0 lb.
Yield Mode	Lookup
Edge Distance	1 1/2"
Min. End Distance	6"
Load Combination	1.25D+1.5L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 14-0-15 with a minimum of (2) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

Capacity	33.3 %
Load	329.6lb.
Total Yield Limit	990.0 lb.
Yield Limit per Fastener	495.0 lb.
Yield Mode	Lookup
Load Combination	1.25D+1.5L
Duration Factor	1.00

Min/Max fastener distances for Concentrated Side Loads



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Lumber

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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
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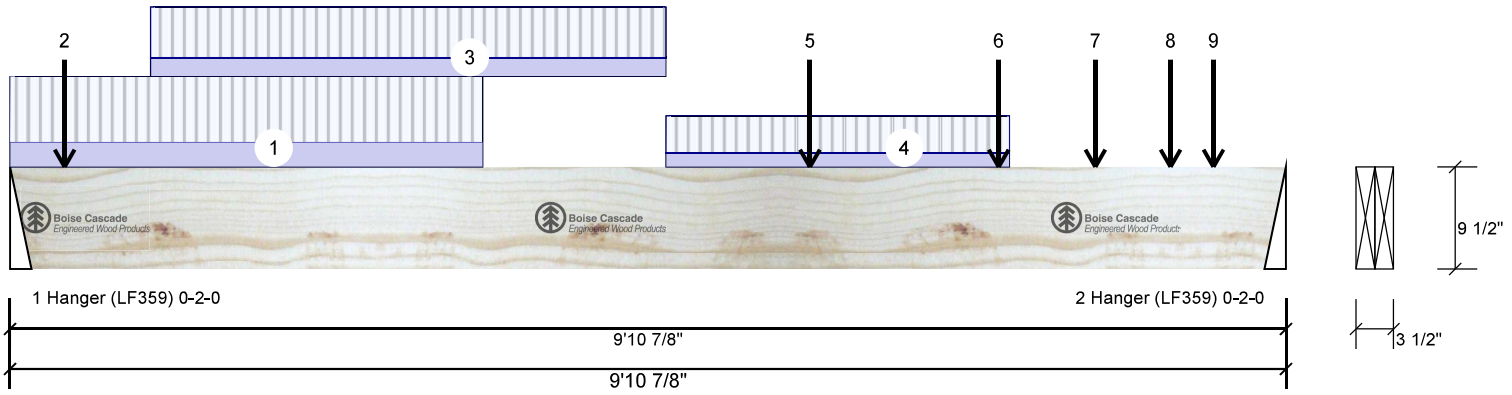
Level: Second Floor



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	677	307	0	0
2	Vertical	440	218	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	18%	383 / 1015	1399	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	12%	272 / 660	932	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2633 ft-lb	4'3"	23220 ft-lb	0.113 (11%)	1.25D+1.5L	L
Unbraced	2633 ft-lb	4'3"	23220 ft-lb	0.113 (11%)	1.25D+1.5L	L
Shear	1208 lb	11 1/2"	10574 lb	0.114 (11%)	1.25D+1.5L	L
Perm Defl in.	0.020 (L/5920)	4'10 3/16"	0.323 (L/360)	0.061 (6%)	D	Uniform
LL Defl inch	0.041 (L/2828)	4'9 11/16"	0.323 (L/360)	0.127 (13%)	L	L
TL Defl inch	0.061 (L/1914)	4'9 7/8"	0.485 (L/240)	0.125 (13%)	D+L	L

Design Notes

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

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100528832
PROVINCE OF ONTARIO
JULY 04, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-8-1		Top	38 PLF	100 PLF	0 PLF	0 PLF	
2	Point	0-5-1		Far Face	28 lb	73 lb	0 lb	0 lb	J5
3	Part. Uniform	1-1-1 to 5-1-1		Far Face	29 PLF	77 PLF	0 PLF	0 PLF	

Continued on page 2...

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Lumber

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Handling & Installation

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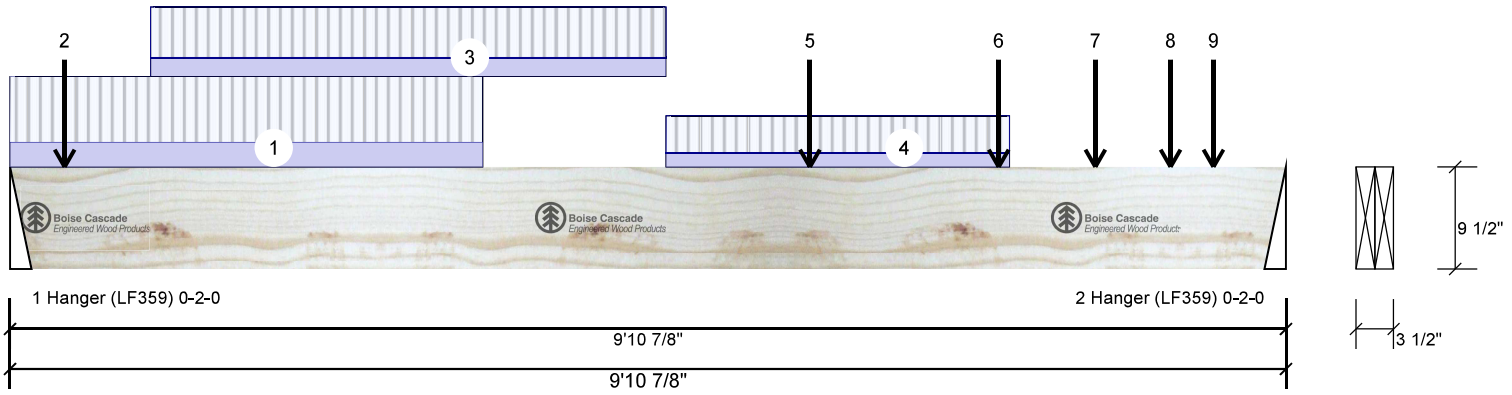

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Part. Uniform	5-1-1 to 7-9-1		Far Face	21 PLF	57 PLF	0 PLF	0 PLF	
5	Point	6-2-8		Near Face	32 lb	58 lb	0 lb	0 lb	F10
6	Point	7-8-1		Near Face	6 lb	16 lb	0 lb	0 lb	J6
7	Point	8-5-1		Far Face	24 lb	64 lb	0 lb	0 lb	J5
8	Point	9-0-1		Near Face	12 lb	33 lb	0 lb	0 lb	J6
9	Point	9-4-1		Far Face	17 lb	46 lb	0 lb	0 lb	J5
	Self Weight				9 PLF				

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