

GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATESNS OSHANOV 04 2023

7/5/2023 Date: W C Input by:

Job Name: RIVER 6-3 STD & DC

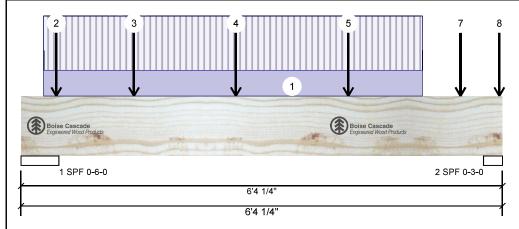
MHP 23025pject #

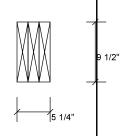
Versa-Lam LVL 2.1E 3100 SP



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 15 PSF Dead:

Application: Floor (Residential)

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

Load Sharing:

Not Checked Deck: Vibration: Not Checked **Unfactored Reactions UNPATTERNED lb (Uplift)**

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

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	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.



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 l b	309 lb	0 l b	0 lb	J4
3	Point	1-5-14		Near Face	126 lb	335 lb	0 l b	0 lb	F4
4	Point	2-10-0		Near Face	122 lb	326 lb	0 l b	0 lb	J3
5	Point	4-3-13		Near Face	154 l b	411 l b	0 l b	0 lb	F4

Continued on page 2...

Notes

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

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

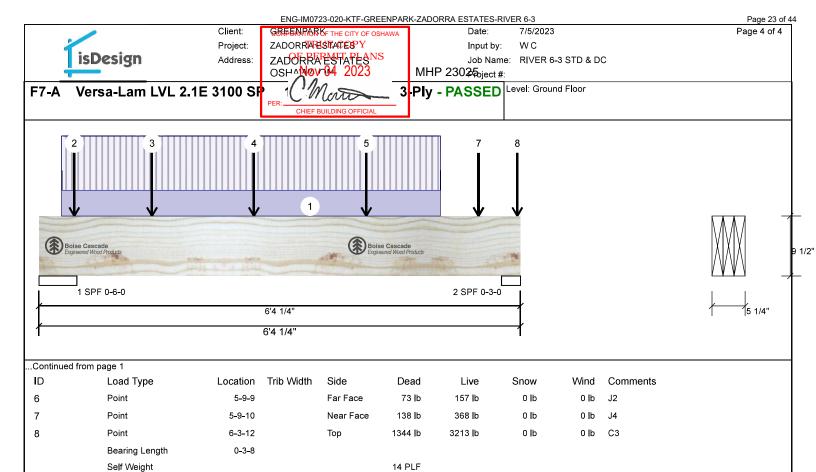
Manufacturer Info Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

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

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









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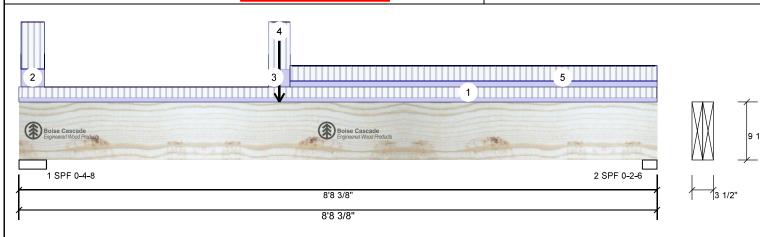
Job Name: RIVER 6-3 STD & DC

MHP 23025pject #

Versa-Lam LVL 2.1E 3100 SP

2 Ply - PASSED

Level: Ground Floor



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 2 Design Method: LSD Vertical 290 160 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 260 144 n 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 4.500" Vert 7% 200 / 435 636 L 1.25D+1.5L

2 - SPF 2.398"

Vert

11%

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

- 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



180 / 390

570 L

1.25D+1.5L

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 8-8-6	0-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-5 to 0-4-2	1-10-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	3-4-14 to 3-8-6	1-10-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	3-6-10		Far Face	104 lb	236 l b	0 lb	0 l b	F6
5	Tie-In	3-8-6 to 8-8-6	0-7-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				9 PLF				

Notes

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

Handling & Installation

LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-rity fastening details, beam strength values, and code approvals

Damaged Beams must not be used

Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

This design is valid until 4/17/2026

Manufacturer Info 6. For flat roofs provide proper drainage to prevent ponding

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

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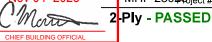
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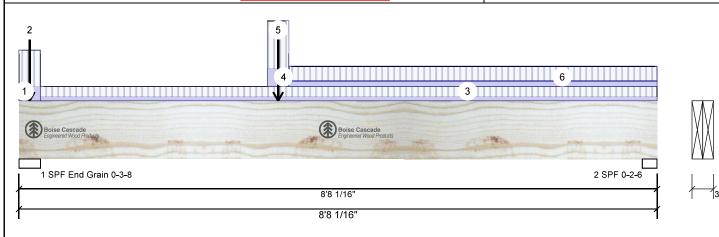
Job Name: RIVER 6-3 STD & DC

MHP 23025pject #

Versa-Lam LVL 2.1E 3100 SP F8-B



Level: Ground Floor



Floor (Residential)

OBC 2012(2020 Update)

NBCC 2015

Not Checked

Not Checked

LSD

Unfactored Reactions UNPATTERNED lb (Uplift)

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

15 PSF Dead:

Member Information

Moisture Condition: Dry

Deflection LL:

Deflection TL:

General Load

Importance:

Floor Live:

2

360

240

Normal - II

40 PSF

Type: Plies:

Analysis Results

Analysis	Actua l	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 l b	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
TI Deflinch	0.025 (L/4035)	4'3 1/8"	0.415 (L/240)	0.059 (6%)	D+L	L

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Vibration:

Allalysis	Actual	Location	Allowed	Capacity	Collib.	Odsc
Moment	1629 ft-lb	3'6 5/16"	23220 ft-lb	0.070 (7%)	1.25D+1.5L	L
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TL Defl inch	0.025 (L/4035)	4'3 1/8"	0.415 (L/240)	0.059 (6%)	D+L	L

Bearings and Factored Reactions

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



JULY 04, 2023

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- 7 Lateral slenderness ratio based on full section width

7 Eutoral deliadification based of fair decitor what.										
	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Tie-In	0-0-0 to 0-3-8	1-5-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Point	0-1-12		Far Face	113 l b	268 lb	0 lb	0 lb	F6
	3	Tie-In	0-3-8 to 8-8-1	0-4-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	4	Tie-In	3-4-8 to 3-8-0	1-10-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	5	Point	3-6-4		Near Face	106 lb	240 lb	0 l b	0 lb	F6

Continued on page 2...

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

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

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

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







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This design is valid until 4/17/2026 CSD DESIGN



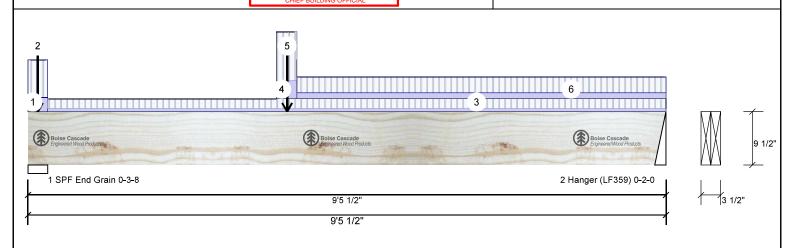
GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATESNS OSHANOV 04 2023 Versa-Lam LVL 2.1E 3100 SP

7/3/2023 W C Input by:

Job Name: RIVER 6-3 STD & DC

MHP 23025pject #

2-Ply - PASSED Level: Ground Floor



Member Information Application: Floor (Residential) Type: Plies: 2 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF 15 PSF Dead:

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. Can React D/Lih

Hanger

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	9%	351 / 855	1206	L	1.25D+1.5L
2 -	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 l b	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 Typ	pe Location	Trib Width	n Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-3-8	1-5-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-1-12		Near Face	120 l b	288 lb	0 l b	0 lb	F6
3	Tie-In	0-3-8 to 9-5-8	0-4-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	3-8-3 to 3-11-14	1-10-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 2...

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

Handling & Installation

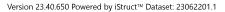
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Manufacturer Info 6. For flat roofs provide proper drainage to prevent ponding Boise Cascade Wood Products 1111 W. Jefferson St.

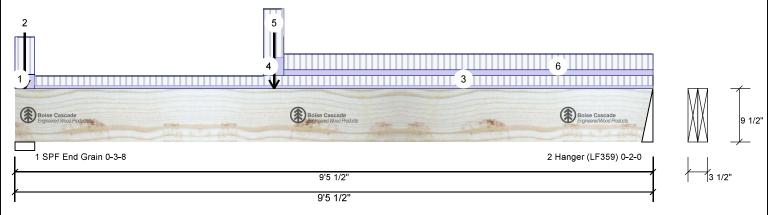
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Load Type Location Trib Width Comments ID Side Live Wind Dead Snow Far Face 110 lb 249 lb 0 lb 0 lb 5 Point 3-10-2 F6 6 Tie-In 3-11-14 to 9-5-8 0-7-2 Тор 15 PSF 40 PSF 0 PSF 0 PSF Self Weight 9 PLF



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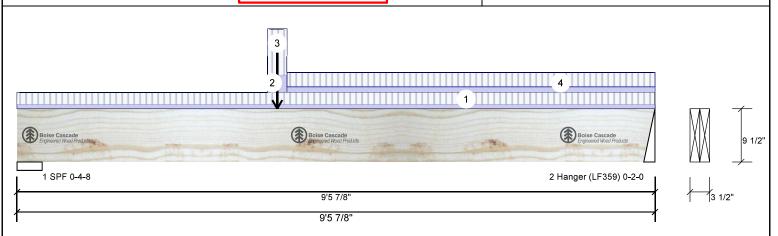
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Job Name: RIVER 6-3 STD & DC

MHP 23025pject #

2 Ply - PASSED

Level: Ground Floor



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 2 Design Method: LSD 295 167 Vertical 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 285 157 n 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 4.500" Vert 7% 208 / 442 650 L 1.25D+1.5L 2.000" 197 / 427 2 -Vert 8% 624 L 1.25D+1.5L Analysis Results Hanger

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.



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

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

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

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

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

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

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







GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATESNS OSHANOV 04 2023

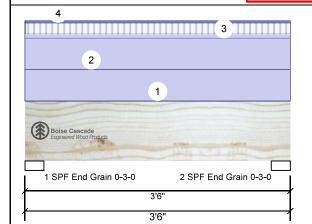
7/3/2023 Date: W C Input by:

Job Name: RIVER 6-3 STD & DC

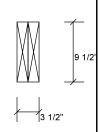
MHP 23025pject #:

2-Ply - PASSED

Level: Ground Floor



Versa-Lam LVL 2.1E 3100 SP



Member Information Application: Floor (Residential) Type: Plies: 2 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF 15 PSF Dead:

Uni	factored Reac	tions UNPAT	TERNED i b (Uplift)
Bra	Direction	Livo	Dead	Snow

0
0

Analysis Results

Analysis	Actua l	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 l b	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

Bearings and Factored Reactions

Dearings	una ra	ctoica	itcut				
Bearing	Length	Dir.	Cap.	React D/L I b	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



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

7 Lateral slenderness ratio based on full section width.



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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-6-0		Тор	51 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-6-0		Near Face	51 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Near Face	7 PLF	18 PLF	0 PLF	0 PLF	
	End	3-6-0			7 PLF	18 PLF	0 PLF	0 PLF	
Continued on page	2								

Notes

Notes

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

Handling & Installation

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

Manufacturer Info Boise Cascade Wood Products

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

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





Page 28 of 40



Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATES OSHANOV-04 2023

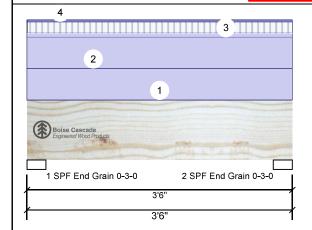
Date: 7/3/2023 Input by: W C

Job Name: RIVER 6-3 STD & DC

MHP 23025pject #:

2-Ply - PASSED

Level: Ground Floor



Versa-Lam LVL 2.1E 3100 SP

.Continued from page 1

4

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



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

Notes

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

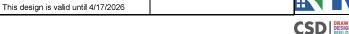
Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788

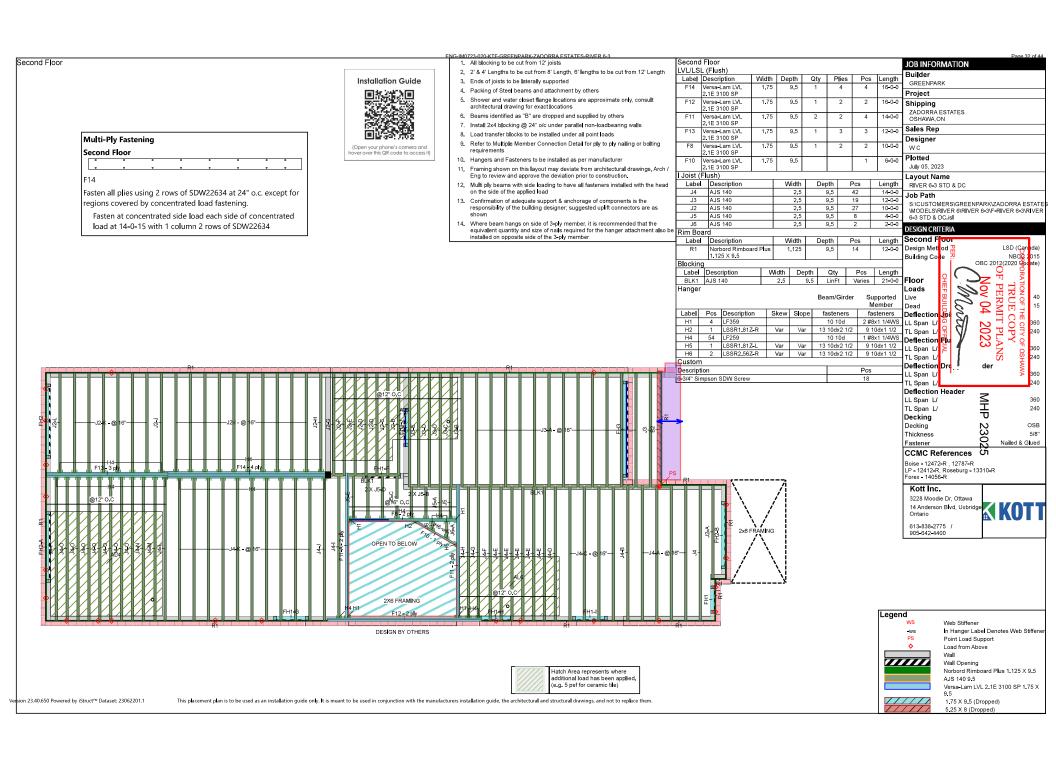
www.bc.com CCMC: 12472

Kott Inc.

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







Page 29 of 40



Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATESNS OSHANOV 04 2023

7/3/2023 Input by: W C

Job Name: RIVER 6-3 STD & DC

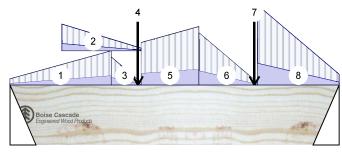
MHP 23025pject #:

Versa-Lam LVL 2.1E 3100 SP F10



00" - PASSED

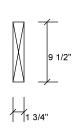
Level: Second Floor



1 Hanger (LSSR1.81Z) 0-4-2 4'4 1/8"

2 Hanger (LSSR1.81Z) 0-4-2

4'4 1/8'



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

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

Analysis Results

Ana l ysis	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

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	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

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.



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.

	iare enemaining amaene								
I D	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	Тор	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	Тор	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	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 2...

Notes

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

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

Handling & Installation

- 1. UVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-rily fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

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



This design is valid until 4/17/2026



Kott Inc.

Page 30 of 40



Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRARESTATES ZADORRAPSTAPLANS OSHANOV-04 2023

Date: 7/3/2023 Input by:

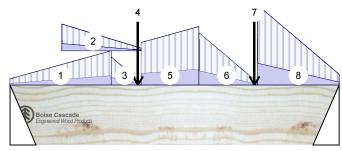
Job Name: RIVER 6-3 STD & DC

MHP 23025pject #:

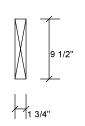
Versa-Lam LVL 2.1E 3100 SP F10

00' - PASSED

Level: Second Floor



1 Hanger (LSSR1.81Z) 0-4-2 2 Hanger (LSSR1.81Z) 0-4-2 4'4 1/8" 4'4 1/8'



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



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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

www.bc.com CCMC: 12472

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





Page 31 of 40



Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATES OSHANOV 04 2023 Versa-Lam LVL 2.1E 3100 SP

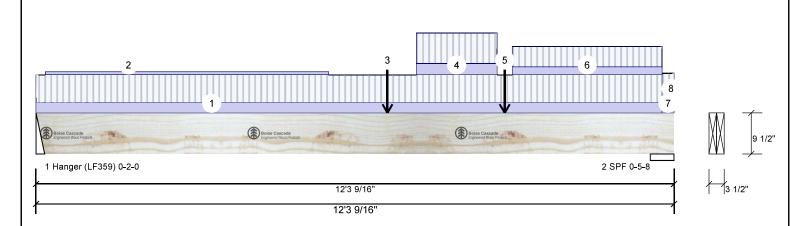
Date: 7/3/2023 Input by: W C

Job Name: RIVER 6-3 STD & DC

MHP 23025pject #:

2-Ply - PASSED

Level: Second Floor



Member Inforr	nation			Unfactored Reactions UNPATTERNED Ib (Uplift)							
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	L	_ive	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1 1	Vertical		272	184		0	0
Moisture Condition	: Dry	Building Code:	NBCC 2015	2 '	Vertical		558	317		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Beari	ngs and Fa	actorec	d Read	ctions			
Dead:	15 PSF			Beari	ing Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 - Hang	2.000" ier	Vert	8%	230 / 408	638	L	1.25D+1.5L
Analysis Result	:s		_	2 - SI		Vert	10%	396 / 837	1233	L	1.25D+1.5L

Analysis	Actua l	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 l b	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.



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

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

Continued on page 2...

Notes

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

- 6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

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

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Page 32 of 40



Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATES OSHANOV 04 2023 1. Mortio Versa-Lam LVL 2.1E 3100 SP

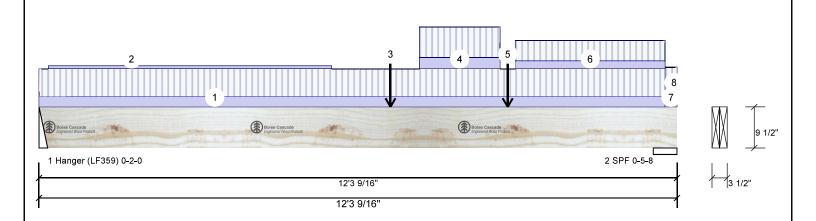
Date: 7/3/2023 Input by: WC

Job Name: RIVER 6-3 STD & DC

MHP 23025pject #:

2-Ply - PASSED

Level: Second Floor



Continued	Continued from page 1												
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments				
5	Point	9-0-7		Far Face	218 lb	440 lb	0 l b	0 l b	F8				
6	Tie-In	9-2-3 to 12-0-13	0-4-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF					
7	Tie-In	12-0-13 to 12-3-9	0-2-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF					
8	Tie-In	12-0-13 to 12-3-9	0-3-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF					
	Self Weight				9 PLF								



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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

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Page 33 of 40



Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRARESTATESY ZADORRAPSTATESNS OSHANOV 04 2023 Versa-Lam LVL 2.1E 3100 SP

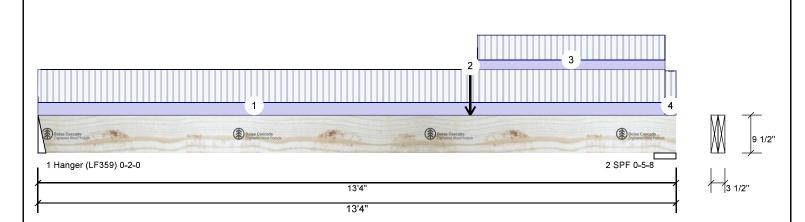
7/3/2023 Date: W C Input by:

Job Name: RIVER 6-3 STD & DC

MHP 23025pject #

?-Plv - PASSED

Level: Second Floor



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Type Brg Direction Live Dead Snow Wind Plies 2 Design Method: LSD 195 Vertical 312 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 613 331 n 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 2.000" Vert 9% 243 / 468 711 L 1.25D+1.5L Hanger Analysis Results 2 - SPF 5.500" Vert 11% 414 / 920 1335 L 1.25D+1.5L

Actual Location Allowed Comb. Case Analysis Capacity 9' 7/16" 23220 ft-lb Moment 4640 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 1269 lb 0.120 (12%) 1.25D+1.5L L 12'1" 10574 lb Shear 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

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.



JULY 04, 2023

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 13-1-4	0-4-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	9-0-7		Near Face	307 lb	677 l b	0 lb	0 l b	F8
3	Tie-In	9-2-3 to 13-1-4	0-3-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	13-1-4 to 13-4-0	0-4-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				9 PLF				

Notes

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

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

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

Kott Inc.

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





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Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATES OSHANOV 04 2023 Versa-Lam LVL 2.1E 3100 SP

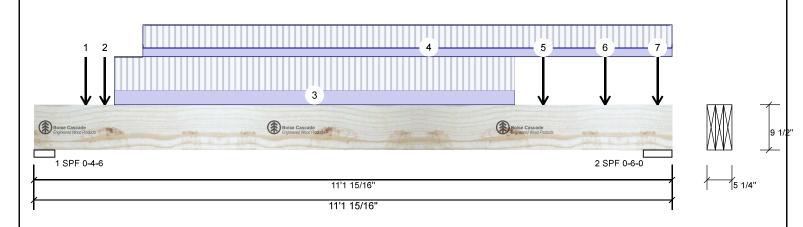
Date: 7/3/2023 Input by: W C

Job Name: RIVER 6-3 STD & DC

MHP 23025pject #:

3-Ply - PASSED

Level: Second Floor



Member Inforn	nation			Unfactored Reactions UNPATTERNED lb (Uplift)						
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead	Snow	Wind
Plies:	3	Design Method:	LSD	1	Vertical	2	199	978	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	24	183	1091	0	0
Deflection LL:	360		OBC 2012(2020 Update)							
Deflection TL:	240	Load Sharing:	Yes							
Importance:	Normal - II	Deck:	Not Checked							
General Load		Vibration:	Not Checked							
Floor Live:	40 PSF			Bear	ings and Fa	actored	Rea	ctions		
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	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	Actua l	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.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-10-14		Near Face	110 l b	253 l b	0 lb	0 l b	J4
2	Point	1-2-14		Far Face	88 l b	234 l b	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 l b	270 l b	0 lb	0 l b	J4
6	Point	9-11-14		Near Face	116 l b	259 l b	0 lb	0 l b	J4
Continued on	page 2								

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and badings 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.

Notes

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

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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

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

Manufacturer Info

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





.Continued from page 1

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

11'1 15/16"

Self Weight 14 PLF



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Handling & Installation

Handling & Installation

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6. For flat roofs provide proper drainage to prevent ponding

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

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Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRARESTATES ZADORRAPSTATESNS OSHANOV 04 2023

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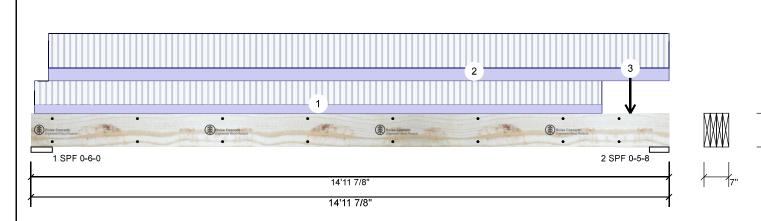
Job Name: RIVER 6-3 STD & DC

MHP 23025pject #:

Versa-Lam LVL 2.1E 3100 SP

4-Ply - PASSED

Level: Second Floor



Member Inforn	Member Information					Unfactored Reactions UNPATTERNED lb (Uplift)						
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Li	ve	Dead		Snow	Wind	
Plies:	4	Design Method:	LSD	1	Vertical	31	55	1322		0	0	
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	32	203	1340		0	0	
Deflection LL:	360		OBC 2012(2020 Update)									
Deflection TL:	240	Load Sharing:	Yes									
Importance:	Normal - II	Deck:	Not Checked									
General Load		Vibration:	Not Checked									
Floor Live:	40 PSF			Bea	rings and Fa	actored	Rea	ctions				
Dead:	15 PSF			Be	aring Length	Dir.	Сар.	React D/L Ib	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 l b	13'8 7/8"	21147 l b	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
- 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
- 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.



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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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

www.bc.com CCMC: 12472

Manufacturer Info

Boise Cascade Wood Products

Kott Inc.

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







GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATES

Date: 7/3/2023 Input by: WC

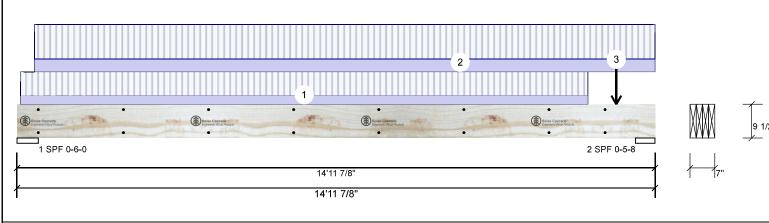
Job Name: RIVER 6-3 STD & DC

MHP 23025pject #:

Versa-Lam LVL 2.1E 3100 SP

OSHANOV 04 2023 1. Mortio 4-Ply - PASSED

Level: Second Floor



I D	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 l b	223 lb	0 l b	0 lb	J2
	Self Weight				19 PLF				



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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For **flat** roofs provide proper drainage to prevent ponding

Manufacturer Info

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

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

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





Multi-Ply Analysis

1 SPF 0-6-0

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".

14'11 7/8' 14'11 7/8'

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

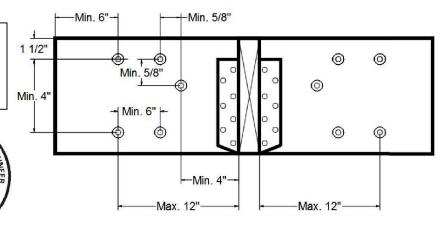
Concentrated Load

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

side of the applied load.	
Capacity Load	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



2 SPF 0-5-8

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ROFESSION

I.MATIJEVIC

100528832

NCE OF JULY 04, 2023

Notes

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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
3. Damaged Beams must not be used

Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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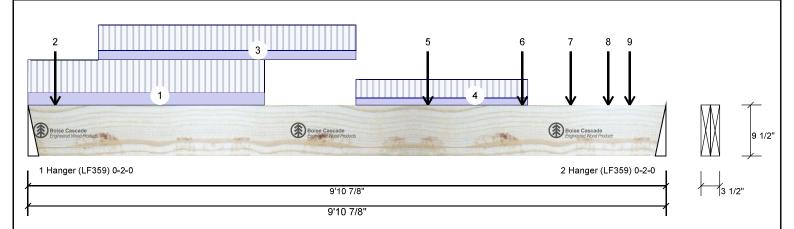
Job Name: RIVER 6-3 STD & DC

MHP 23025_{oject #}

Versa-Lam LVL 2.1E 3100 SP

-P v - PASSED

Level: Second Floor



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

Unfactored Reactions UNPATTERNED lb (Uplift)

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

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	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	Actua l	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 l b	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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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-8-1		Тор	38 PLF	100 PLF	0 PLF	0 PLF	
2	Point	0-5-1		Far Face	28 lb	73 l b	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...

Notes

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

Handling & Installation

- 1. UVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-rily fastening details, beam strength values, and code approvals
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 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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Versa-Lam LVL 2.1E 3100 SP

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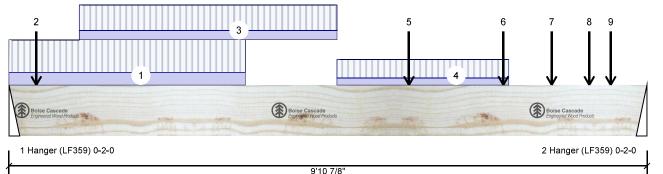
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Job Name: RIVER 6-3 STD & DC

MHP 23025pject #:

-Py - PASSED

Level: Second Floor



9'10 7/8'

9 1/2"

4 Pa 5 Po 6 Po 7 Po	art. Uniform 5-1-1 to	cation Trib Width o 7-9-1	Side Far Face	Dead 21 PLF			Wind	Comments
5 Po 6 Po 7 Po		7-9-1	Far Face	21 DI E	67 DLE			
6 Po				ZIFLF	57 PLF	0 PLF	PLF	
7 Po	oint	6-2-8	Near Face	32 l b	58 lb	0 lb	0 l b	F10
,	oint	7-8-1	Near Face	6 l b	16 l b	0 lb	0 l b	J6
	oint	8-5-1	Far Face	24 lb	64 lb	0 lb	0 l b	J5
8 Po	oint	9-0-1	Near Face	12 l b	33 lb	0 l b	0 l b	J6
9 Po	oint	9-4-1	Far Face	17 l b	46 lb	0 lb	0 l b	J5
Se	elf Weight			9 PLF				



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