

Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPESTATESNS OSHANOVO4 2023

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

Job Name: RIVER 6-1 STD & DC

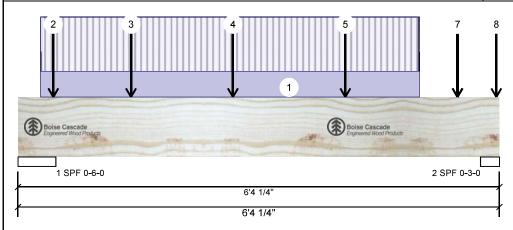
MHP 23025pject #

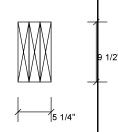
Versa-Lam LVL 2.1E 3100 SP



3 Ply - PASSED

Level: Ground Floor





Member Information

Type.	Gildei
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 Ib	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 l b	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.

	/ Lateral diolide	inioco rado bacca en ra	TOOGLOIT WIGHT.							
I	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
ı	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 l b	335 lb	0 l b	0 l b	F4
	4	Point	2-10-0		Near Face	122 l b	326 lb	0 lb	0 l b	J3
	5	Point	4-3-13		Near Face	154 l b	411 lb	0 l b	0 l b	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

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



Continued	пош	page	1
ID			

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



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

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GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATES OSHANOVO4 2023

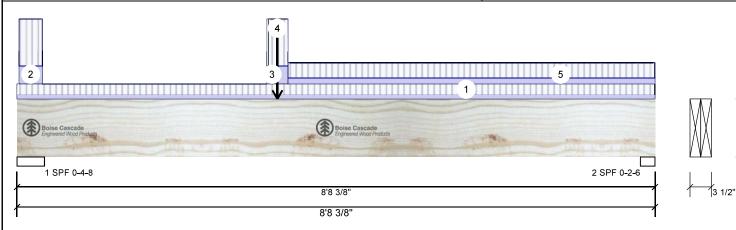
Date: 6/29/2023 Input by: W C

Job Name: RIVER 6-1 STD & DC

MHP 23025pject #:

Versa-Lam LVL 2.1E 3100 SP

2-Ply - PASSED Level: Ground Floor



Member Infori	mation			Unfactored Reactions UNPATTERNED lb (Uplift)							
Type:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical		290	160		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical		260	144		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			Bea	rings and Fa	actored	d Read	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Cap.	React D/L Ib	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	Actua l	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.



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					I				
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	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 l b	236 lb	0 l b	0 lb	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				

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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

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





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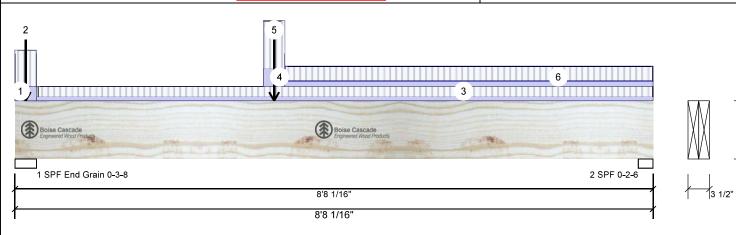
Job Name: RIVER 6-1 STD & DC

MHP 23025pject #

Versa-Lam LVL 2.1E 3100 SP F8-B



2-Ply - PASSED Level: Ground Floor



Member Inforn	nation			Unf	actor
Туре:	Girder	Application:	Floor (Residential)	Brg	Dire
Plies:	2	Design Method:	LSD	1	Vertic
Moisture Condition: Deflection LL:	Dry 360	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertic
Deflection TL:	240	Load Sharing:	No		
Importance:	Normal - II	Deck:	Not Checked		
General Load		Vibration:	Not Checked		
Floor Live:	40 PSF			Bea	rings
Dead:	15 PSF			Bea	aring
				1 - End	SPF d
Analysis Results	5		_	Gra	ain

Capacity

Unfactored Reactions UNPATTERNED Ib (Uplift)

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

s and Factored Reactions

Vert

11%

2 - SPF 2.398"

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	9%	333 / 810	1143	L	1.25D+1.5L

178 / 380

558 L

1.25D+1.5L



Location Allowed



1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support

Comb.

Case

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.

Actual

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

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/ Lateral sient	derriess ratio based	on full section width.							
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 lb	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 lb	0 l b	F6
Continued on pag	ge 2								

Analysis

Design 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-ray 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

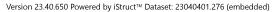
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Kott Inc.

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CSD DESIGN

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Versa-Lam LVL 2.1E 3100 SP

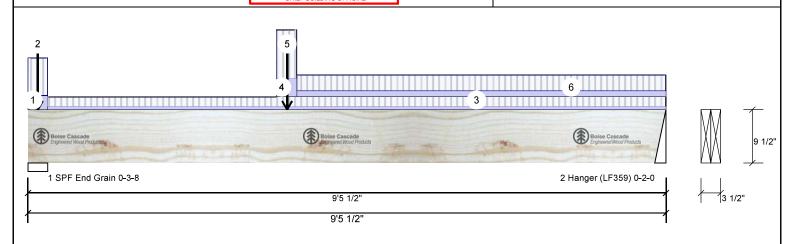
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6/29/2023 W C Input by:

Job Name: RIVER 6-1 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 Not Checked Deck: 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
_	vertical	200	131	U	

Bearings and Factored Reactions

Hanger

Bearing	Length	Dir.	Cap. Re	act 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.



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 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 l b	0 lb	0 l b	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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Handling & Installation

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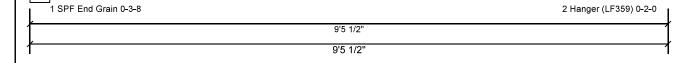
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Version 23.40.650 Powered by iStruct™ Dataset: 23040401.276 (embedded)





Bolse Cascade

..Continued from page 1

I D	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 l b	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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9 1/2"



Wind

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

0

0

0

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Versa-Lam LVL 2.1E 3100 SP

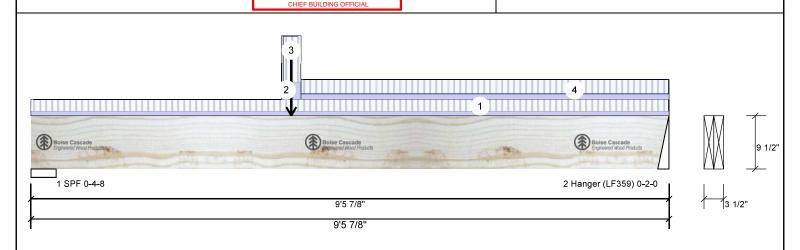
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6/29/2023 Date: W C Input by:

Job Name: RIVER 6-1 STD & DC

MHP 23025pject #

2-Ply - PASSED Level: Ground Floor



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Type: Brg Direction Live Dead Snow Plies 2 Design Method: LSD 295 167 Vertical 1 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 285 157 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 Dead: 15 PSF Bearing Length Dir. Cap. React D/L lb Total Ld. Case 1 - SPF 4.500" Vert 7% 208 / 442 650 L 2.000" 2 -Vert 8% 197 / 427 624 L Hanger

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

/	PROFESSIONA	\
LICENSE	I.MATIJEVIC 100528832	ENGINEER
18	DUINCE OF ONT	

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 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 lb	252 lb	0 lb	0 lb	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

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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

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





Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATES OSHANOVO4 2023

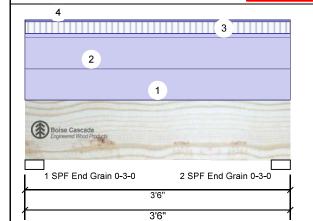
6/29/2023 Date: W C Input by:

Job Name: RIVER 6-1 STD & DC

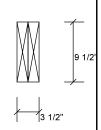
MHP 23025pject #:

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 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	33	213	0	0
2	Vertical	33	213	0	0

Analysis Results

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

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	4%	266 / 50	316	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	4%	266 / 50	316	L	1.25D+1.5L



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

7 Lateral slenderness ratio based on full section width.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-6-0		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	19 PLF	0 PLF	0 PLF	
	End	3-6-0			7 PLF	19 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

- 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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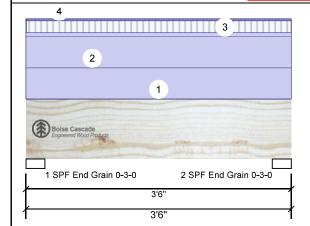
6/29/2023 Input by: W C

Job Name: RIVER 6-1 STD & DC

MHP 23025pject #:

2-Ply - PASSED

Level: Ground Floor



Versa-Lam LVL 2.1E 3100 SP

.Continued from page 1

4

Part. Uniform

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

3 PLF

0 PLF

0 PLF

0 PLF

Rim Board Self Weight

Self Weight 9 PLF

0-0-0 to 3-6-0

PROFESSION I.MATIJEVIC 100528832 JULY 04, 2023

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Handling & Installation

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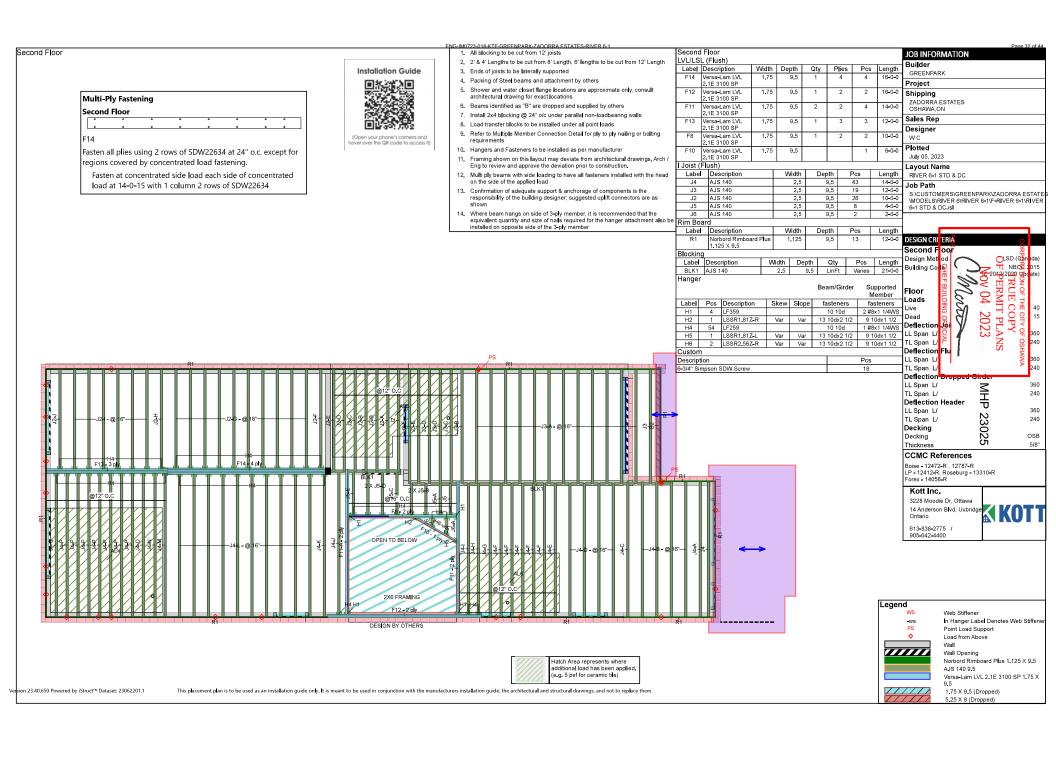
6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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





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GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATES OSHANOVO4 2023

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Job Name: RIVER 6-1 STD & DC

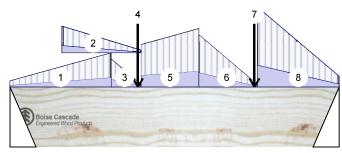
MHP 23025pject #:

Versa-Lam LVL 2.1E 3100 SP F10



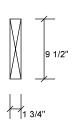
00" - PASSED

Level: Second Floor



4'4 1/8'





Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	•	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360		, ,
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

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

Bearings and Factored Reactions

	J						
Bearir	ng Length	Dir.	Cap. R	eact D/L I b	Total	Ld. Case	Ld. Comb.
1 -	4.125"	Vert	2%	40 / 88	128	L	1.25D+1.5L
Hange	er						
2 - Hange	4.125" er	Vert	2%	51 / 120	171	L	1.25D+1.5L
riange	J1						

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



JULY 04, 2023

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/ Dottom made i	avo onoathing attache	a or bo comunicadae	ij biacca.						
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

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- 1. UVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-rily fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
 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 30 of 40



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Date: 6/29/2023 Input by: W C

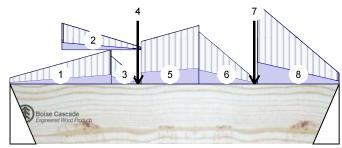
Job Name: RIVER 6-1 STD & DC

MHP 23025pject #:

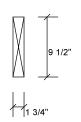
Versa-Lam LVL 2.1E 3100 SP F10

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 f	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 lb	0 lb	0 l b	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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Handling & Installation

Handling & Installation

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

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Page 31 of 40



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GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAESTATESNS OSHANOVO4 2023 Versa-Lam LVL 2.1E 3100 SP

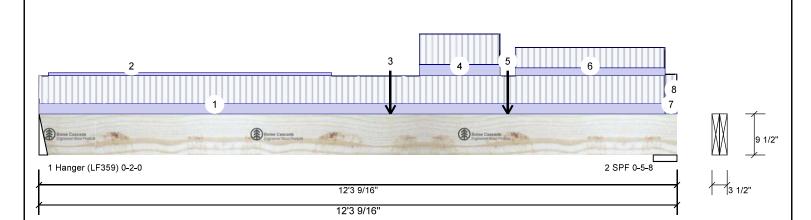
Date: 6/29/2023 Input by: W C

Job Name: RIVER 6-1 STD & DC

MHP 23025pject #:

2-Ply - PASSED

Level: Second Floor



Member Inform	mation			Unfac	ctored Rea	ctions	UNP	ATTERNED I I	b (Up l i	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	l	Live	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	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	actored	d Read	ctions			
Dead:	15 PSF			Bear	ing Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 - Hang	2.000" ger	Vert	8%	230 / 408	638	L	1.25D+1.5L
Analysis Result	ts			2-S	PF 5.500"	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.



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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 lb	0 l b	0 l b	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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 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- Handling & Installation

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Continued from page 1

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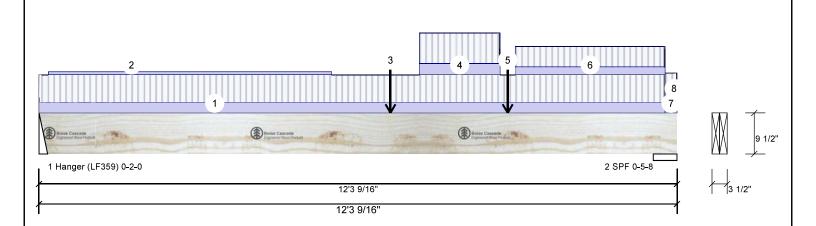
Date: 6/29/2023 Input by: WC

Job Name: RIVER 6-1 STD & DC

MHP 23025pject #:

2-Ply - PASSED

Level: Second Floor



Continued nom	turided from page 1										
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments		
5	Point	9-0-7		Far Face	218 l b	440 l b	0 lb	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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3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Wind

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

0

0

0

n



Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRARESTATESY ZADORRAPESTATESNS OSHANOVO4 2023

6/29/2023 Date: W C Input by:

Job Name: RIVER 6-1 STD & DC

MHP 23025_{oject #}

2 - SPF 5.500"

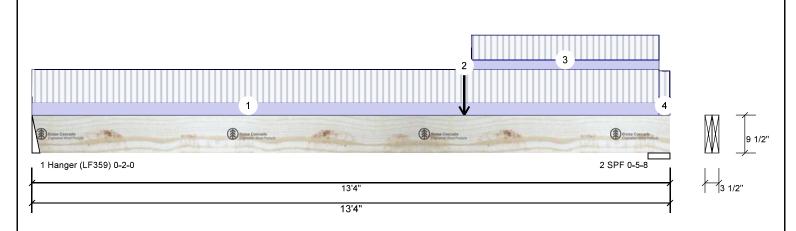
Vert

11%

Versa-Lam LVL 2.1E 3100 SP



Level: Second Floor



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Type: Brg Direction Live Dead Snow Plies 2 Design Method: LSD 195 Vertical 312 1 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 613 331 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 Dead: 15 PSF Bearing Length Dir. Cap. React D/L lb Total Ld. Case 2.000" Vert 9% 243 / 468 711 L Hanger

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 l b	12'1"	10574 l b	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.



414 / 920

1335 L

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 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

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

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

Manufacturer Info

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





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Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRATESTATES OSHANOVO4 2023

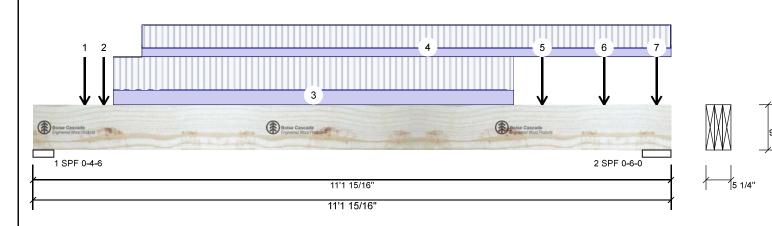
Date: 6/29/2023 Input by: W C

Job Name: RIVER 6-1 STD & DC

MHP 23025pject #:

Versa-Lam LVL 2.1E 3100 SP 3-Ply - PASSED

Level: Second Floor



Member Inforn	nation			Unfactored Reactions UNPATTERNED lb (Uplift)							
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	,	Dead		Snow	Wind
Plies:	3	Design Method:	LSD	1	Vertical	2199	9	978		0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	2483	3	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	rings and Fa	actored R	ea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir. C	ар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 - 3	SPF 4.375"	Vert 3	2%	1223 / 3299	4522	L	1.25D+1.5L
				2 -	SPF 6.010"	Vert 2	6%	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 l b	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 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 l b	270 l b	0 lb	0 lb	J4
6	Point	9-11-14		Near Face	116 l b	259 lb	0 lb	0 lb	J4

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

- 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





Dead

73 lb

14 PLF

Live

188 lb

Snow

0 lb

11'1 15/16"

Side

Near Face

Location Trib Width

10-10-14



Comments

J4

Wind

0 lb

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.Continued from page 1

Load Type

Self Weight

Point

ID

7

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

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Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRARESTATES ZADORRAPSTATES OSHANOVO4 2023 Versa-Lam LVL 2.1E 3100 SP

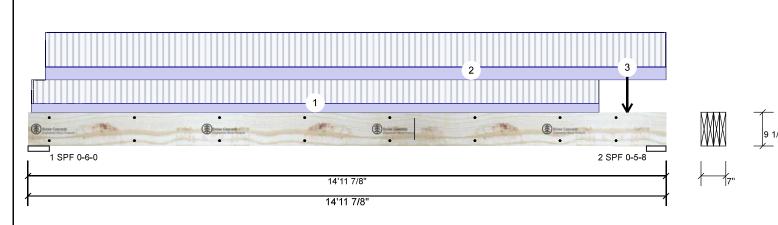
6/29/2023 W C Input by:

Job Name: RIVER 6-1 STD & DC

MHP 23025pject #:

4-Ply - PASSED

Level: Second Floor



Member Info	rmation			Unfactored Reactions UNPATTERNED Ib (Uplift)							
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	l	_ive	Dead		Snow	Wind
Plies:	4	Design Method:	LSD	1	Vertical	3	155	1322		0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2015	2	Vertical	3	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	d Read	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
				J 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

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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Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRATESTATES OSHANOVO4 2023

Date: 6/29/2023 Input by: WC

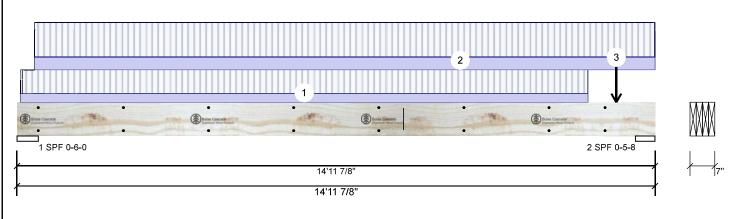
Job Name: RIVER 6-1 STD & DC

MHP 23025pject #:

Versa-Lam LVL 2.1E 3100 SP

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 l b	0 l b	0 l b	J2
	Self Weight				19 PLF				



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Dry service conditions, unless noted otherwise
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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

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Manufacturer Info

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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	

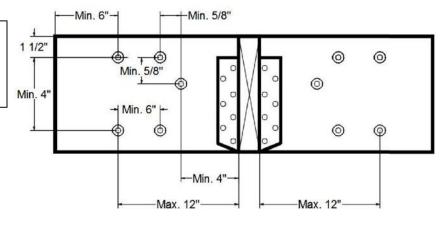
Concentrated Load

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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WCE OF JULY 04, 2023

I.MATIJEVIC 100528832

Notes

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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

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3. Damaged Beams must not be used

Design assumes top edge is laterally restrained
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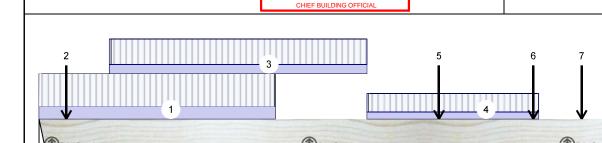
GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATES OSHANOVO4 2023

6/29/2023 Date: W C Input by:

Job Name: RIVER 6-1 STD & DC

MHP 23025pject #:

Level: Second Floor -P v - PASSED



1 Hanger (LF359) 0-2-0

9'10 7/8' 9'10 7/8' 2 Hanger (LF359) 0-2-0

Member Information

1				
ľ	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		
I				

Unfactored Reactions UNPATTERNED lb (Uplift)

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

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 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

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	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

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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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 3-8-1		Тор	38 PLF	100 PLF	0 PLF	0 PLF	
2	Point	0-5-1		Far Face	28 lb	73 l b	0 l b	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
 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

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Versa-Lam LVL 2.1E 3100 SP

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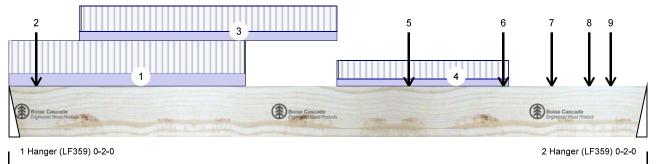
GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRATESTATES OSHANOVO4 2023

Date: 6/29/2023 Input by: WC

Job Name: RIVER 6-1 STD & DC

MHP 23025pject #:

-Py - PASSED Level: Second Floor



9'10 7/8' 9'10 7/8' 9 1/2"

.Continued from page 1

	r - 9 - ·								
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 l b	0 l b	F10
6	Point	7-8-1		Near Face	6 lb	16 l b	0 l b	0 l b	J6
7	Point	8-5-1		Far Face	24 lb	64 l b	0 l b	0 lb	J5
8	Point	9-0-1		Near Face	12 l b	33 lb	0 l b	0 l b	J6
9	Point	9-4-1		Far Face	17 l b	46 lb	0 l b	0 l b	J5
	Self Weight				9 PLF				



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