Client: **GREENPARK** Project:

Date: ZADORRA ESTATES Input by:

Job Name: RIVER 2-3 STD Address: **ZADORRA ESTATES**

Brg

1

2

2 -

Hanger

Direction

Vertical

Vertica

2.000"

Vert

OSHAWA, ON Project #

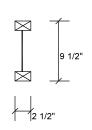
9.500" - PASSED

Level: Ground Floor

6/28/2023

WС





Snow

85 L

0

0

Wind

1.25D+1.5L

0

0

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		

Unfactored Reactions UNPATTERNED lb (Uplift) Live

42

40

5%

ļ							
Bearings	Bearings and Factored Reactions						
Bearing	Length	Dir.	Cap. Re	act D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	5%	24 / 64	88	L	1.25D+1.5L

25 / 60

Dead

19

20

Analysis Results

Dead:

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

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Right Header: SPF, Thickness: 2 1/2"

15 PSF

- 4 Girders are designed to be supported on the bottom edge only.
- 5 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 6 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.



JUNE 29, 2023

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

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

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
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

This design is valid until 4/17/2026

Manufacturer Info

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

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





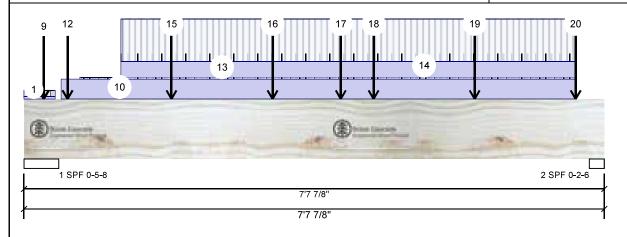
ZADORRA ESTATES Project: Address:

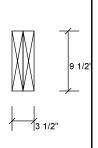
ZADORRA ESTATES

Job Name: RIVER 2-3 STD

OSHAWA, ON Project #

_eyel: Ground Floor F10 SP 1.750" X 9.500'





Page 5 of 38 Page 2 of 31

Member Information

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		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	3372	1656	0	0
2	Vertical	1204	733	0	0

Bearings and Factored Reactions

Bearing Lei	ngth Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF 5.5	00" Vert	60%	2071 / 5058	7128	L	1.25D+1.5L
2 - SPF 2.3	75" Vert	53%	916 / 1805	2721	L	1.25D+1.5L

Analysis Results

Dead:

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

Design Notes

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

15 PSF

- 6 Top must be continuously laterally braced.
- 7 Bottom must have sheathing attached or be continuously braced.
- 8 Lateral slenderness ratio based on full section width.



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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 0-4-15	0-6-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
2	Point	0-3-2		Тор	9 lb	25 lb	0 lb	0 lb	J4	
	Bearing Length	0-5-8								
5	Point	0-3-2		Тор	7 l b	0 l b	0 l b	0 lb	Wall Self Weight	

Continued on page 2...

Notes

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.

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

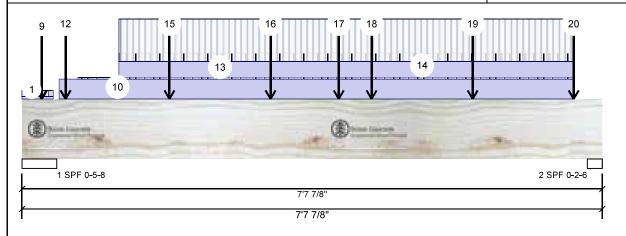


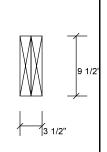


Address: **ZADORRA ESTATES** Job Name: RIVER 2-3 STD

OSHAWA,ON Project #

Leyel: Ground Floor F10 F BW W STIMAM LVL 2.1E 3100 SP MISSEP 1.750" X 9.500"





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

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.



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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

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.





Client: **GREENPARK** ZADORRA ESTATES Project:

6/28/2023 Date: W C Input by:

Job Name: RIVER 2-3 STD **ZADORRA ESTATES**

OSHAWA, ON

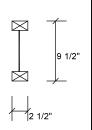
Project #

9.500" - PASSED

Address:







Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Member	Information
Type:	Girder
Plies:	1

Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

General Load Floor Live: 40 PSF 15 PSF Dead:

Application: Design Method:

Building Code:

LSD **NBCC 2015** OBC 2012(2020 Update)

Floor (Residential)

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

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	42	16	0	0
2	Vertical	40	15	0	0

Cap. React D/L lb

20 / 63

19 / 61

5%

5%

Total Ld. Case

83 L

80 L

Analysis Results

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

Hanger I.MATIJEVIC 100528832

Bearings and Factored Reactions

Dir.

Vert

Vert

Bearing Length

2.000"

1 - SPF 2.375"

2 -

JUNE 29, 2023

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

Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie_In	0 0 0 to 1 4 10	1 5 15	Ton	15 DSE	40 DSE	n DSE	0 DSE	

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
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

Manufacturer Info

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

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.

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





ZADORRA ESTATES **ZADORRA ESTATES**

OSHAWA, ON

W C Input by:

Job Name: RIVER 2-3 STD

6/28/2023

Project #

Brg

1

2

Direction

Vertical

Vertical

9.500" - PASSED

Address:



Date:

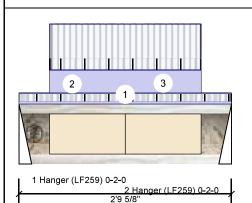
Level: Ground Floor

Unfactored Reactions UNPATTERNED lb (Uplift)

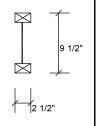
Live

266

266



2'9 5/8'



Wind

0

0

member mom	ia (ioii		
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		
	Plies: Moisture Condition: Deflection LL: Deflection TL: Importance: General Load Floor Live:	Plies: 1 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II General Load Floor Live: 40 PSF	Plies: 1 Design Method: Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II General Load Floor Live: 40 PSF

Bearings	s and Fa	actore	d Read	ctions			
Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	35%	165 / 398	563	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	36%	166 / 399	565	L	1.25D+1.5L

Dead

132

132

Snow

0

0

Analysis Results

Member Information

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

Design Notes

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

13	VetOf ESS. One	S
1 IC	I.MATUEVIC 100528832	200
13		1
	HINE 20, 2022	

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 2-9-10	0-10-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 2-9-10		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-4-13 to 2-4-13		Near Face	108 PLF	216 PLF	0 PLF	0 PLF	

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

Handling & Installation

- Handling & Installation

 1. Julist flanges must not be cut or drilled

 2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-qly fastening details and handling/erection details

 3. Damaged IJoists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





ZADORRA ESTATES Address: **ZADORRA ESTATES** OSHAWA,ON

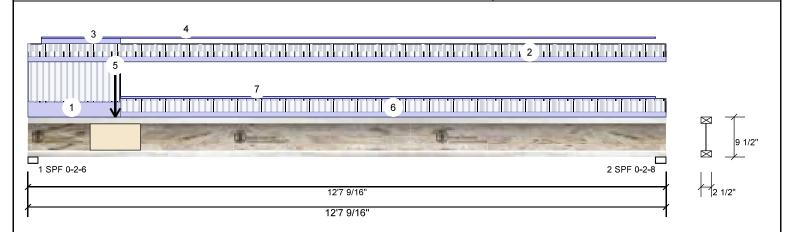
Date: 6/28/2023 Input by: W C

Job Name: RIVER 2-3 STD

Project #

9.500" - PASSED





Member Inform	mation			Unfactored Reactions UNPATTERNED Ib (Uplift)						
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind	
Plies:	1	Design Method:	LSD	1	Vertical	553	273	0	0	
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical	292	145	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			Bear	ings and Fa	actored Rea	ctions			
Dead:	15 PSF			Bea	ring Length	Dir. Cap	. React D/L l b	Total Ld. Case	Ld. Comb.	
				1 - 9	SPF 2.375"	Vert 71%	341 / 829	1170 L	1.25D+1.5L	
Amalania Basali				2 - 9	SPF 2.500"	Vert 37%	181 / 438	619 L	1.25D+1.5L	

Analysis Results

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

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 10'10 13/16" o.c.



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

Notes

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

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

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

This design is valid until 4/17/2026

Manufacturer Info Kott Inc. 3228 Moodie Dr, Ottawa, Ontario Boise Cascade Wood Products 613-838-2775 / 905-642-4400 1111 W. Jefferson St.



CSD

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

ZADORRA ESTATES **ZADORRA ESTATES**

OSHAWA,ON

Date: 6/28/2023 Input by: W C

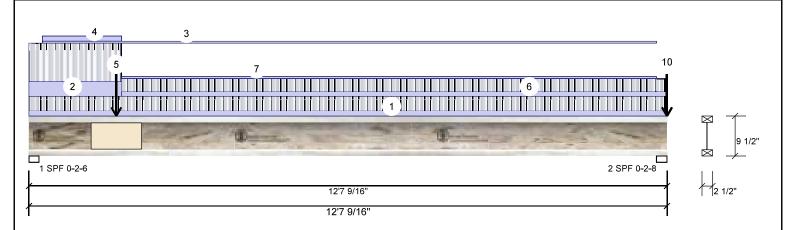
Job Name: RIVER 2-3 STD

Project #

9.500" - PASSED

Address:





Member Infor	mation			Unfa	actored Rea	actions (JNP	ATTERNED II	b (Upli	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Li	ve	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	5	69	285		0	0
Moisture Conditio	n: Dry	Building Code:	NBCC 2015	2	Vertical	3	26	166		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			Bear	rings and Fa	actored	Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	73%	356 / 854	1210	L	1.25D+1.5L
				2 -	SPF 2.500"	Vert	42%	207 / 489	696	L	1.25D+1.5L

Analysis Results

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

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 10'10 13/16" o.c.



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 12-7-9	0-6-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-10-0	1-6-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-3-3 to 12-5-1		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-3-3 to 1-10-0		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-8-12		Near Face	132 l b	266 l b	0 l b	0 lb	F2
6	Tie-In	1-10-0 to 12-7-9	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	1-10-0 to 12-5-1		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
Continued on pa	age 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
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

This design is valid until 4/17/2026

Manufacturer Info

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

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.



ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/28/2023 Input by: WC

Job Name: RIVER 2-3 STD

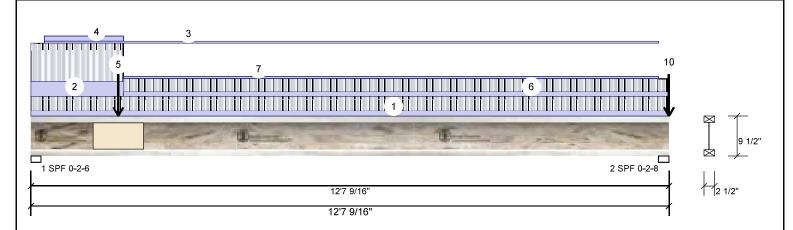
OSHAWA,ON

Project #

9.500" - PASSED

Address:





Continued fro	om page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
8	Point	12-7-9		Тор	3 lb	9 l b	0 l b	0 l b	J4
	Bearing Length	0-1-8							
9	Point	12-7-9		Тор	3 l b	9 l b	0 l b	0 l b	J4
	Bearing Length	0-1-8							
10	Point	12-7-9		Тор	3 lb	0 l b	0 l b	0 l b	Wall Self Weight
	Bearing Length	0-1-8							



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

Notes

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Lumber

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

Handling & Installation

- Handling & Installation

 1. Julist flanges must not be out or drilled

 2. Refer to latest copy of the Juoist product information details for framing details, stifferer tables, web hole chart, bridging details, multi-ray fastening details and handling/erection details

 3. Damaged Juoists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

This design is valid until 4/17/2026

Manufacturer Info

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

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





ZADORRA ESTATES **ZADORRA ESTATES**

OSHAWA, ON

Date: 6/28/2023

W C Input by: Job Name: RIVER 2-3 STD

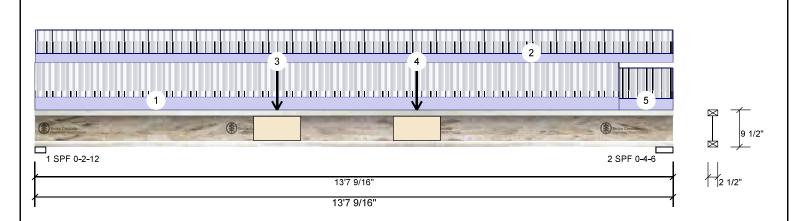
Project #

Nov 23 2023

9.500" - PASSED

Address:





Member Info	mation			Unfa	actored Rea	ctions UNP	ATTERNED I	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	388	146	0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	391	146	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			Bear	ings and F	actored Read	ctions		
Dead:	15 PSF			Bea	ring Length	Dir. Cap.	React D/L Ib	Total Ld. Case	Ld. Comb.
				1 - 3	SPF 2.767"	Vert 44%	182 / 583	765 L	1.25D+1.5L
				2 - :	SPF 4.375"	Vert 42%	183 / 586	769 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2598 ft-lb	6'9 1/16"	4095 ft-lb	0.635 (63%)	1.25D+1.5L	L
Unbraced	2598 ft-lb	6'9 1/16"	4095 ft-lb	0.635 (63%)	1.25D+1.5L	L
Shear	748 l b	2"	1830 l b	0.409 (41%)	1.25D+1.5L	L
Perm Defl in.	0.093 (L/1691)	6'8 15/16"	0.439 (L/360)	0.213 (21%)	D	Uniform
LL Defl inch	0.249 (L/634)	6'8 15/16"	0.439 (L/360)	0.568 (57%)	L	L
TL Defl inch	0.342 (L/461)	6'8 15/16"	0.658 (L/240)	0.520 (52%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 5'5 11/16" o.c.



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4 Bottom flange must be laterally braced at a maximum of 3.5 11/10 6.6.									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-5-11	0-9-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-2 to 13-7-9	0-6-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	5-2-1		Near Face	15 l b	40 lb	0 lb	0 l b	F1
4	Point	8-1-14		Near Face	15 l b	40 lb	0 lb	0 l b	F1
5	Tie-In	12-5-11 to 13-7-9	0-8-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

This design is valid until 4/17/2026

Manufacturer Info

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

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Client: **GREENPARK** Project:

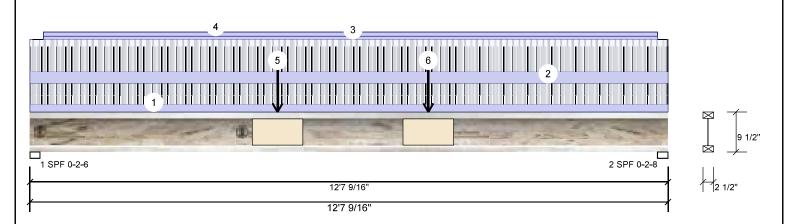
ZADORRA ESTATES Address: **ZADORRA ESTATES** Date: 6/28/2023 Input by: W C

Job Name: RIVER 2-3 STD

OSHAWA,ON Project #

9.500" - PASSED





Member Infor	mation			Unf	actored Rea	actions	UNP.	ATTERNED I I	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead	Snov	/ Wi
Plies:	1	Design Method:	LSD	1	Vertical	:	360	182)
Moisture Conditio	n: Dry	Building Code:	NBCC 2015	2	Vertical	:	361	183)
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 F	actored	Rea	ctions		
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	Total Ld. C	ase Ld. Con
				1 -	SPF 2.375"	Vert	46%	228 / 539	767 L	1.25D+1
				2 -	SPF 2.500"	Vert	46%	229 / 542	771 L	1.25D+1

Analysis Results

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

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 4'10 13/16" o.c.



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 12-7-9	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-7-9	0-9-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-3-3 to 12-5-1		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-3-3 to 12-5-1		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
5	Point	4-10-13		Near Face	20 lb	40 lb	0 lb	0 lb	F1
6	Point	7-10-10		Near Face	20 lb	40 l b	0 l b	0 lb	F1

Notes

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

Manufacturer Info

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

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.

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





ZADORRA ESTATES

Date: 6/28/2023 W C Input by:

ZADORRA ESTATES OSHAWA, ON

Job Name: RIVER 2-3 STD

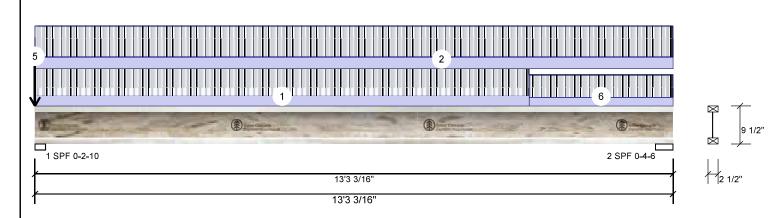
Project #

Nov 23 2023

9.500" - PASSED

Address:





Member	Information
Type:	Girder
Dlice:	1

Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

General Load Floor Live: 40 PSF Dead: 15 PSF

Application: Floor (Residential) Design Method: LSD

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

Load Sharing: Not Checked Deck:

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	344	131	0	0
2	Vertical	324	122	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	2.625"	Vert	40%	164 / 516	680	L	1.25D+1.5L
2 - SPF	4.375"	Vert	35%	152 / 487	639	L	1.25D+1.5L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	1999 ft-lb	6'6 1/2"	4095 ft-lb	0.488 (49%)	1.25D+1.5L	L
Unbraced	1999 ft-lb	6'6 1/2"	4095 ft-lb	0.488 (49%)	1.25D+1.5L	L
Shear	626 lb	1 7/8"	1830 l b	0.342 (34%)	1.25D+1.5L	L
Perm Defl in.	0.069 (L/2236)	6'6 5/8"	0.427 (L/360)	0.161 (16%)	D	Uniform
LL Defl inch	0.183 (L/838)	6'6 5/8"	0.427 (L/360)	0.429 (43%)	L	L
TL Defl inch	0.252 (L/610)	6'6 5/8"	0.640 (L/240)	0.394 (39%)	D+L	L

Design Notes

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

4 Bottom flange must be laterally braced at bearings



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.

T Dollor Hange	mast be laterally brace	ca at bearings.							
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-3-5	0-6-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 13-3-3	0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	0-0-0		Тор	3 lb	9 lb	0 l b	0 l b	J4
	Bearing Length	0-1-8							
4	Point	0-0-0		Тор	3 lb	9 lb	0 l b	0 l b	J4
	Bearing Length	0-1-8							
5	Point	0-0-0		Тор	3 lb	0 lb	0 l b	0 b	Wall Self Weight
0 1: 1	•								

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
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the IJoist product information
 details for framing details, stiffener tables, web hole
 chart, bridging details, multi-rily fastening details and
 handling/erection details

 3. Damaged IJoists must not be used
 4. Design assumes top flange to be laterally restrained
 by attached sheathing or as specified in engineering
 notes.

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

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/28/2023 Input by: WC

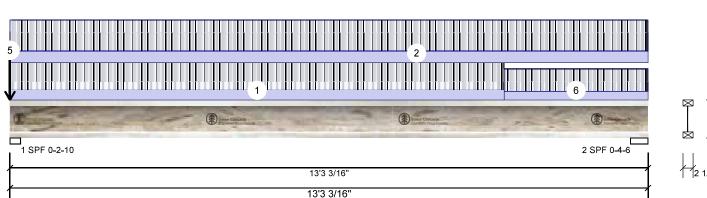
Job Name: RIVER 2-3 STD

OSHAWA,ON Project #

Level: Ground Floor

9.500" - PASSED

Address:



..Continued from page 1

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



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Notes

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Lumber

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

Handling & Installation

- Handling & Installation

 1. Julist flanges must not be out or drilled

 2. Refer to latest copy of the Juoist product information details for framing details, stifferer tables, web hole chart, bridging details, multi-ray fastening details and handling/erection details

 3. Damaged Juoists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

Manufacturer Info

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

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.

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



ZADORRA ESTATES

Date: 6/28/2023 Input by: W C

ZADORRA ESTATES OSHAWA, ON

Job Name: RIVER 2-3 STD

Project #

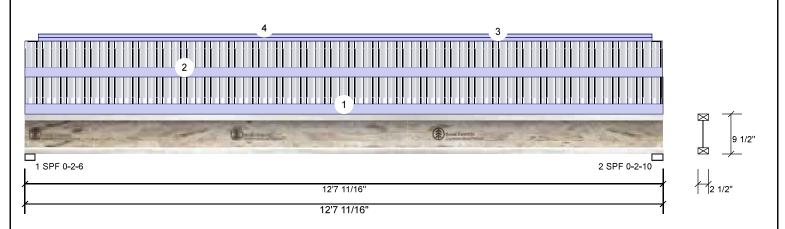


Nov 23 2023

9.500" - PASSED

Address:





Member Info	mation			Unf	actored Rea	actions	UNP	ATTERNED I I	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	;	288	144	0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	:	289	145	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 F	actored	Rea	ctions		
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	Total Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	37%	180 / 432	612 L	1.25D+1.5L
				2 -	SPF 2.625"	Vert	36%	181 / 433	614 L	1.25D+1.5L

Analysis Results

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

Design Notes

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



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 12-7-11	0-6-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Tie-In	0-0-0 to 12-7-9	0-6-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	3	Part. Uniform	0-3-3 to 12-5-1		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
	4	Part. Uniform	0-3-3 to 12-5-1		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
ı										

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
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.

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





Client: **GREENPARK** Project:

ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/28/2023 Input by: WС

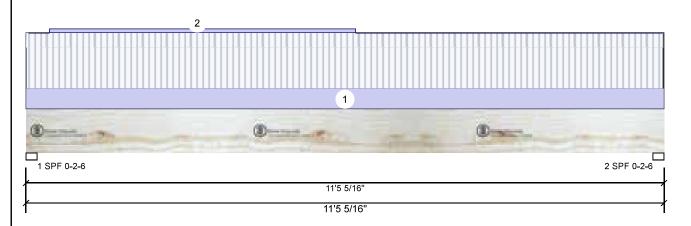
Job Name: RIVER 2-3 STD

OSHAWA,ON Project #

Versa Lam LVL 2.1E 3100 SP

1.750" X 9.500" - P#

Level: Ground Floor



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

40 PSF

15 PSF

Application: Floor (Residential) Design Method: LSD

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

Load Sharing: Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	83	62	0	0
2	Vertical	83	60	0	0

Bearings and Factored Reactions

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

Analysis Results

Floor Live:

Dead:

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

Design Notes

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



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.

d Comments

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

Notes

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

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





Client: **GREENPARK** Project:

ZADORRA ESTATES

Date: 6/28/2023 WС Input by:

Job Name: RIVER 2-3 STD Address: **ZADORRA ESTATES**

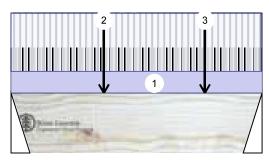
OSHAWA,ON

Project #

Wersa Lam LVL 2.1E 3100 SP

1.750" X 9.500" - PA

Level: Ground Floor

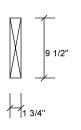


1 Hanger (HUS1.81/10) 0-3-0

15 PSF

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

3'3 3/4'



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		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	248	101	0	0
2	Vertical	296	119	0	0
1					

Analysis Results

Dead:

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	454 ft-lb	1'2 11/16"	11610 ft-lb	0.039 (4%)	1.25D+1.5L	L
Unbraced	454 ft-lb	1'2 11/16"	11610 ft-lb	0.039 (4%)	1.25D+1.5L	L
Shear	509 lb	2'3 1/4"	5287 l b	0.096 (10%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/61373)	1'7 1/2"	0.098 (L/360)	0.006 (1%)	D	Uniform
LL Defl inch	0.001 (L/24410)	1'7 7/16"	0.098 (L/360)	0.015 (1%)	L	L
TL Defl inch	0.002 (L/17464)	1'7 7/16"	0.147 (L/240)	0.014 (1%)	D+L	L

Bearings and Factored Reactions

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

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.



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.

/ Βοττο	m must have sheathing attached	a or be continuou	siy braced.
ID	Load Type	Location	Trib Widt

ı	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Part. Uniform	0-0-0 to 3-3-12		Тор	15 PLF	40 PLF	0 PLF	0 PLF	
	2	Point	1-2-11		Far Face	84 lb	225 l b	0 l b	0 l b	J2
	3	Point	2-6-11		Far Face	70 l b	186 l b	0 l b	0 l b	J2
ı		Self Weight				5 PLF				

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. 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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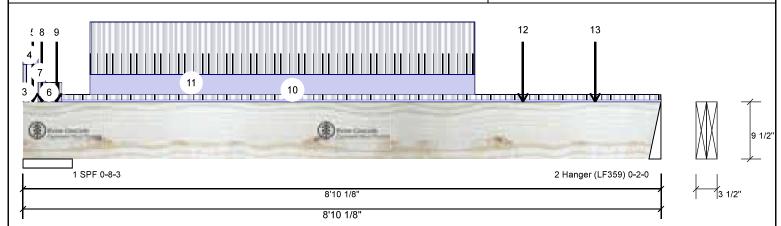
www.bc.com CCMC: 12472

Manufacturer Info Kott Inc.

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







Member Inforn	nation			Unfa	ctored Rea	ctions	UNPA	ATTERNED i i	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead	Snow	Win
Plies:	2	Design Method:	LSD	1	Vertical	2	2488	1033	0	
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical		1150	471	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	ings and F	actore	d Read	tions		
Dead:	15 PSF			Bea	ring Length	Dir.	Cap.	React D/L Ib	Total Ld. Case	Ld. Com
				1 - 5	SPF 8.196"	Vert	28%	1291 / 3731	5022 L	1.25D+1.
Analysis Result	S			2 - Han	2.000" ger	Vert	30%	588 / 1725	2313 L	1.25D+1.

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	4837 ft-lb	4'8 3/16"	23220 ft-lb	0.208 (21%)	1.25D+1.5L	L
Unbraced	4837 ft-lb	4'8 3/16"	23220 ft-lb	0.208 (21%)	1.25D+1.5L	L
Shear	2512 lb	7'10 5/8"	10574 l b	0.238 (24%)	1.25D+1.5L	L
Perm Defl in.	0.023 (L/4324)	4'8 3/16"	0.271 (L/360)	0.083 (8%)	D	Uniform
LL Defl inch	0.055 (L/1764)	4'8 3/16"	0.271 (L/360)	0.204 (20%)	L	L
TL Defl inch	0.078 (L/1253)	4'8 3/16"	0.406 (L/240)	0.192 (19%)	D+L	L

Design Notes

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

ſ	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	2	Part. Uniform	0-0-0 to 0-1-0		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	3	Part. Uniform	0-0-0 to 0-0-10		Тор	51 PLF	136 PLF	0 PLF	0 PLF	J4
	4	Part. Uniform	0-0-0 to 0-2-8		Тор	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	5	Point	0-1-10		Тор	386 lb	942 lb	0 lb	0 l b	F8

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
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

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

I.MATIJEVIC 100528832

JUNE 29, 2023

AS IT CONTAINS SPECIFICATIONS AND CRITERIA

USED IN THE DESIGN OF THIS COMPONENT.

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: EWP-FLOORS. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING

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



This design is valid until 4/17/2026

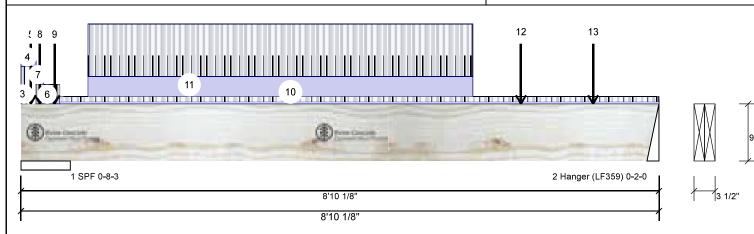
Boise Cascade Wood Products www.bc.com CCMC: 12472

ZADORRA ESTATES Address:

Job Name: RIVER 2-3 STD

OSHAWA,ON Project #

F8HEFWORKSETTAM LVL 2.1E 3100 SP 1.750" X 9.500" Level: Ground Floor RASSED



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



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

Notice 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 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

This design is valid until 4/17/2026

Manufacturer Info

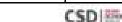
Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario



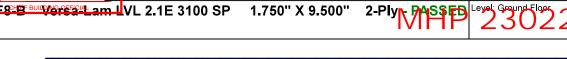
613-838-2775 / 905-642-4400

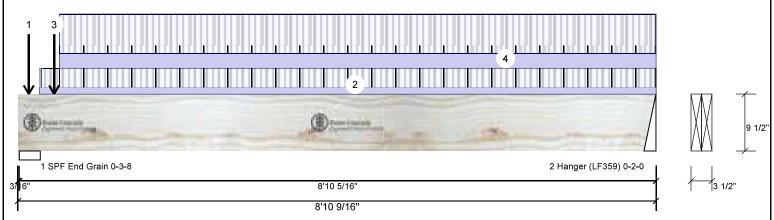


Address: **ZADORRA ESTATES**

Job Name: RIVER 2-3 STD

OSHAWA, ON Project #





Member Inforn	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	l Reactions	UNPATTERNED	lb	(Uplift)

ı	Brg	Direction	Live	Dead	Snow	Wind
ı	1	Vertical	1759	767	0	0
ı	2	Vertical	129	90	0	0
ı						

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	28%	958 / 2638	3596	_L	1.25D+1.5L
2 - Hanger	2.000"	Vert	4%	113 / 194	307	_L	1.25D+1.5L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	699 ft-lb	4'1 3/8"	23220 ft-lb	0.030 (3%)	1.25D+1.5L	_L
Unbraced	699 ft-lb	4'1 3/8"	23220 ft-lb	0.030 (3%)	1.25D+1.5L	_L
Shear	796 l b	1'1 3/16"	10574 lb	0.075 (8%)	1.25D+1.5L	_L
Perm Defl in.	0.005 (L/19652)	4'4 3/4"	0.287 (L/360)	0.018 (2%)	D	Uniform
LL Defl inch	0.008 (L/13098)	4'4 3/16"	0.287 (L/360)	0.027 (3%)	L	LL
TL Defl inch	0.013 (L/7860)	4'4 7/16"	0.431 (L/240)	0.031 (3%)	D+L	LL
LL Cant	-0.000 (2L/7472)	Lt Cant	0.200 (2L/360)	0.000 (0%)	L	LL
TL Cant	-0.000 (2L/4554)	Lt Cant	0.300 (2L/240)	0.000 (0%)	D+L	LL



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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 8'4 1/2" o.c.
- 9 Lateral slenderness ratio based on full section width.

Notes

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.

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

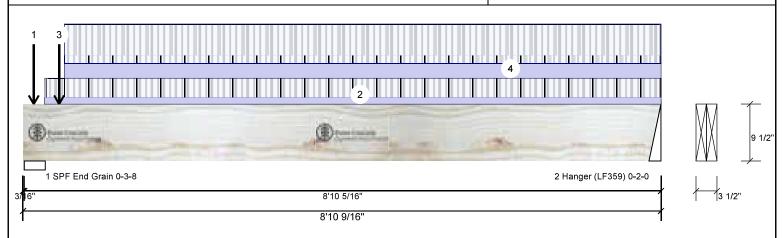




ZADORRA ESTATES Job Name: RIVER 2-3 STD Address:

OSHAWA,ON Project #

Level: Ground Floor 1.750" X 9.500" F8-B BUVGrsa-Lam UVL 2.1E 3100 SP - PASSED



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

Notice 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. 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





Wind

Ld. Comb. 1.25D+1.5L

1.25D+1.5L

0

0

Client: **GREENPARK**

ZADORRA ESTATES Project: Address: OSHAWA, ON

W C Input by: Job Name: RIVER 2-3 STD **ZADORRA ESTATES**

Project #

Date:

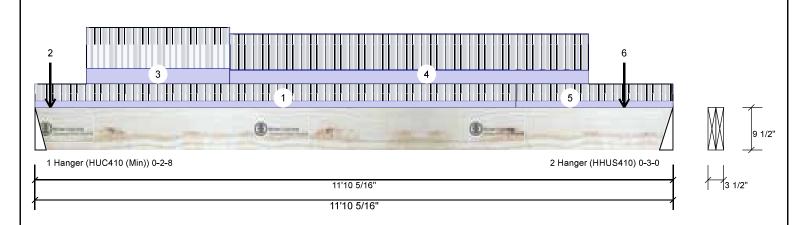
^{B∪∥}Wors 2.1E 3100 SP

1.750" X 9.500'

- PASSEB

Level: Ground Floor

6/28/2023



Member Inforn	nation			Unfa	ctored Rea	ctions	s UNP/	ATTERNED I	b (Upl	ift)
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead		Sno
Plies:	2	Design Method:	LSD	1	Vertical		1368	570		
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical		1276	537		
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	ings and Fa	actore	d Read	ctions		
Dead:	15 PSF			Bear	ing Length	Dir.	Cap.	React D/L Ib	Total	Ld.
				1 - Hang	2.500" ger	Vert	29%	712 / 2052	2764	L
Analysis Result	s			2 -	3.000"	Vert	23%	671 / 1914	2585	L
Analysis Act	ua l Loca	ation Allowed Canac	ity Comb Case	† Hanզ	ger					

Comb.

0.325 (33%) 1.25D+1.5L L

0.325 (33%) 1.25D+1.5L L 0.246 (25%) 1.25D+1.5L L

Uniform

L

L

Capacity



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Design Notes

Analysis

Moment

Shear

Unbraced

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.

Location Allowed

5'10 7/16" 23220 ft-lb

5'10 7/16" 23220 ft-lb

1' 10574 lb

5'10 13/16" 0.384 (L/360) 0.187 (19%) D

5'10 3/4" 0.384 (L/360) 0.446 (45%) L

5'10 13/16" 0.576 (L/240) 0.422 (42%) D+L

2 Fill all hanger nailing holes.

Perm Defl in. 0.072 (L/1930)

LL Defl inch 0.171 (L/807)

TL Defl inch 0.243 (L/569)

3 Left Header: DF. Thickness: 3 1/2"

7551 ft-lb

7551 ft-lb

2605 lb

- 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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 8-11-4	1-9-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-3-7		Far Face	57 l b	152 l b	0 l b	0 lb	J2
3	Part Uniform	0-11-7 to 3-7-7		Far Face	64 PI F	171 PI F	0 PI F	0 PLF	

Continued on page 2...

Notes

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

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

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

Kott Inc.

Snow

0

n

Ld. Case



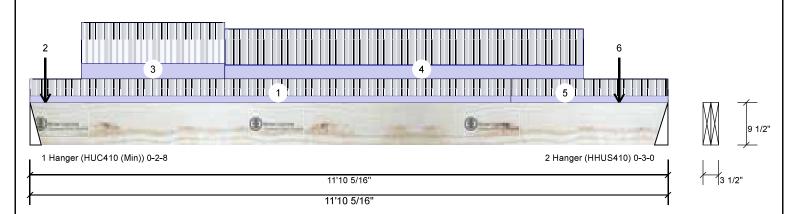


ZADORRA ESTATES Address:

Job Name: RIVER 2-3 STD

OSHAWA,ON Project #

Level: Ground Floor 1.750" X 9.500" F9-B ^{BUI}Vorstal Lam UVL 2.1E 3100 SP - PASSED



Continued	from	page	1	

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



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Notes

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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-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

Kott Inc.

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





Client: **GREENPARK** Project:

ZADORRA ESTATES **ZADORRA ESTATES**

6/28/2023 Date: W C Input by:

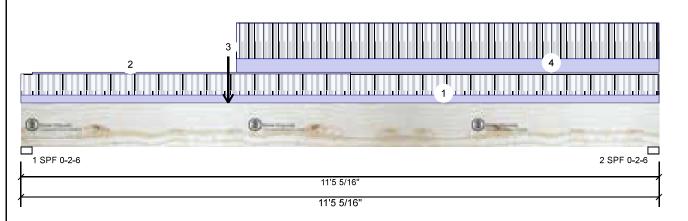
Job Name: RIVER 2-3 STD

OSHAWA,ON Project #

1.750" X 9.500"

PASSED

Level: Ground Floor





Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II

General Load 40 PSF 15 PSF Application: Floor (Residential)

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

Load Sharing:

Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	990	469	0	0
2	Vertical	587	294	0	0

Bearings and Factored Reactions

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

Analysis Results

Floor Live:

Dead:

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

Design Notes

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



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

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.





Client: **GREENPARK** Project:

ZADORRA ESTATES **ZADORRA ESTATES**

6/28/2023 Date: W C Input by:

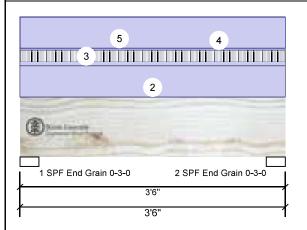
OSHAWA, ON Project #

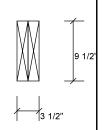
BUV/NEST LAM LVL 2.1E 3100 SP

1.750" X 9.500"

Level: Ground Floor

Job Name: RIVER 2-3 STD





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 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

Member Information

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 l b	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 Ib	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

I.MATIJEVIC 100528832

JUNE 29, 2023

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

Design Notes

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

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

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-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used.

Dariga 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





Client: **GREENPARK**

Project: ZADORRA ESTATES Address:

Date: 6/28/2023 Input by: W C

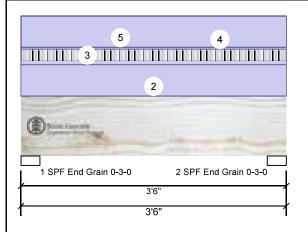
ZADORRA ESTATES Job Name: RIVER 2-3 STD

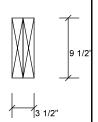
OSHAWA,ON Project #

FH7FBUVORSECHam LVL 2.1E 3100 SP

1.750" X 9.500"

Level: Ground Floor





.Continued from page 1

ID Location Trib Width Side Load Type Dead Live Wind Comments Snow Part. Uniform 0-0-0 to 3-6-0 51 PLF 0 PLF 0 PLF 0 PLF Wall Self Weight 5 Тор 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 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





GREENPARK

ZADORRA ESTATES

Date: W C Input by:

Project #

6/28/2023

Job Name: RIVER 2-3 DC

ZADORRA ESTATES OSHAWA,ON

FH7-AULDWorsd-Lam LVL 2.1E 3100 SP

Client:

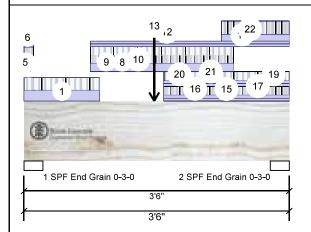
Project:

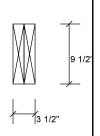
Address:

1.750" X 9.500"

PA66ED

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 Dead: 15 PSF

Unfactored Reactions UNPATTERNED Ib (Upli

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	822	780	248	0
2	Vertical	1046	934	238	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2815 ft-lb	1'8 5/8"	23220 ft-lb	0.121 (12%)	1.25D+1.5L +S	L
Unbraced	2815 ft-lb	1'8 5/8"	23220 ft-lb	0.121 (12%)	1.25D+1.5L +S	L
Shear	2501 lb	1' 1/2"	10574 lb	0.237 (24%)	1.25D+1.5L +S	L
Perm Defl in.	0.003 (L/13010)	1'8 13/16"	0.104 (L/360)	0.028 (3%)	D	Uniform
LL Defl inch	0.004 (L/10456)	1'8 7/8"	0.104 (L/360)	0.034 (3%)	L+0.5S	L
TL Defl inch	0.006 (L/5797)	1'8 13/16"	0.156 (L/240)	0.041 (4%)	D+L+0.5S	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Сар.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	22%	975 / 1480	2456	L	1.25D+1.5L +S
2 - SPF End Grain	3.000"	Vert	27%	1168 / 1807	2975	L	1.25D+1.5L +S

Design Notes

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



JUNE 29, 2023

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 2 of 2

Client: **GREENPARK** Project:

ZADORRA ESTATES **ZADORRA ESTATES**

OSHAWA,ON

6/28/2023 Input by: WC

Job Name: RIVER 2-3 DC

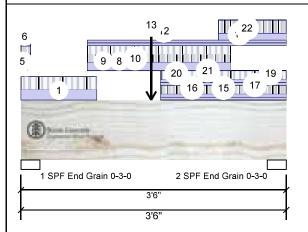
Project #

FH7-AULDWorsd-Lam LVL 2.1E 3100 SP

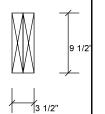
1.750" X 9.500"

PASSED

Level Ground Floor 2







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	Part. Uniform	0-0-0 to 1-0-0		Near Face	162 PLF	187 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 0-1-8		Near Face	3 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
3	Part. Uniform	0-0-0 to 0-0-0		Near Face	82 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	0-1-8			0 PLF	1 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 0-1-8		Near Face	123 PLF	248 PLF	0 PLF	0 PLF	J4
6	Part. Uniform	0-0-0 to 0-1-8		Near Face	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Part. Uniform	0-0-0 to 0-1-8		Тор	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Part. Uniform	0-10-8 to 3-6-0		Near Face	3 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
9	Tapered Start	0-10-8		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	3-6-0			0 PLF	1 PLF	0 PLF	0 PLF	
10	Part. Uniform	0-10-8 to 2-9-3		Near Face	123 PLF	248 PLF	0 PLF	0 PLF	J4
11	Part. Uniform	0-10-8 to 3-6-0		Near Face	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
12	Part. Uniform	0-10-8 to 3-6-0		Тор	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
13	Point	1-8-10		Тор	648 l b	576 lb	486 lb	0 l b	Header Column Header Column
	Bearing Length	0-3-8							
15	Part. Uniform	1-10-2 to 3-6-0		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
16	Part. Uniform	1-10-2 to 3-6-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
17	Part. Uniform	1-10-2 to 3-6-0		Тор	48 PLF	128 PLF	0 PLF	0 PLF	J4
19	Part. Uniform	1-10-2 to 3-6-0		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
20	Part. Uniform	1-10-2 to 3-6-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
21	Part. Uniform	1-10-2 to 3-6-0		Near Face	48 PLF	128 PLF	0 PLF	0 PLF	J4
22	Part. Uniform	2-7-4 to 3-6-0		Near Face	102 PLF	198 PLF	0 PLF	0 PLF	J4
	Self Weight				9 PLF				

Notice 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. 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

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





Client: **GREENPARK** Project:

Address:

ZADORRA ESTATES **ZADORRA ESTATES**

OSHAWA,ON

6/28/2023 Date: WC Input by:

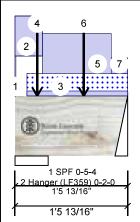
Job Name: RIVER 2-3 STD

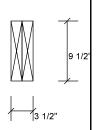
Project #

F12 F BWW S F Warm LV L 2.1E 3100 SP

1.750" X 9.500"

Level: Second Floo





Mem	ber l	Into	rma	tion

Type:	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	951	712	566	0
2	Vertical	53	70	21	0

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	69 ft-lb	10 7/8"	23220 ft-lb	0.003 (0%)	1.25D+1.5L +S	L
Unbraced	69 ft-lb	10 7/8"	23220 ft-lb	0.003 (0%)	1.25D+1.5L +S	L
Shear	73 lb	6 5/16"	10574 lb	0.007 (1%)	0.9D+1.5L	L
Perm Defl in.	0.000 (L/861111)	10 7/8"	0.034 (L/360)	0.000 (0%)	D	Uniform
LL Defl inch	0.000 (L/722448)	10 7/8"	0.034 (L/360)	0.000 (0%)	L+0.5S	L
TL Defl inch	0.000 (L/392854)	10 7/8"	0.050 (L/240)	0.001 (0%)	D+L+0.5S	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	26%	890 / 1993	2883	L	1.25D+1.5L +S
2 - Hanger	2.000"	Vert	2%	87 / 101	188	L	1.25D+1.5L +S

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Fill all hanger nailing holes.
- 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.



JUNE 29, 2023

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

Notes

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.

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

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





Client: **GREENPARK** Project:

ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/28/2023 Input by: WC

Job Name: RIVER 2-3 STD

OSHAWA,ON Project #

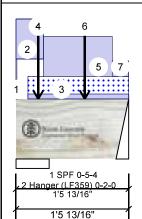
F12 F BW BY SELLAN LYL 2.1E 3100 SP

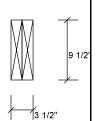
Address:

1.750" X 9.500"

MISEP

Level: Second Floor





I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 0-0-2		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 0-4-6		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-1-14 to 1-5-13		Тор	10 PLF	0 PLF	35 PLF	0 PLF	
4	Point	0-3-8		Тор	608 lb	904 lb	541 l b	0 l b	F13
	Bearing Length	0-5-8							
5	Part. Uniform	0-4-6 to 1-3-4		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Point	0-10-14		Near Face	37 l b	100 lb	0 lb	0 lb	J5
7	Part. Uniform	1-3-4 to 1-5-13		Тор	31 PLF	0 PLF	0 PLF	0 PLF	Wall 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.

Notice 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. 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

This design is valid until 4/17/2026

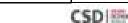
Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

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

Manufacturer Info

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





Client: **GREENPARK**

Project: ZADORRA ESTATES **ZADORRA ESTATES**

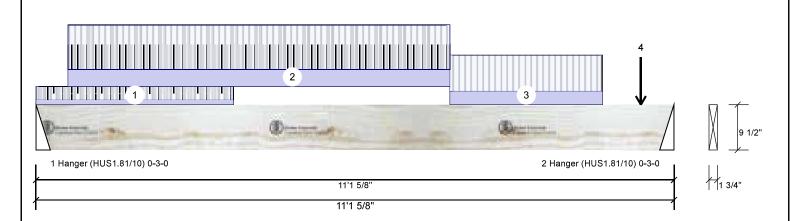
6/28/2023 Input by: W C

Job Name: RIVER 2-3 STD

OSHAWA,ON Project #

""Versa Lam LVL 2.1E 3100 SP

1.750" X 9.500"



michiber imorn	lation		
Туре:	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	782	320	0	0
2	Vertical	666	276	0	0

Bearings and Factored Reactions

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

Analysis Results

Member Information

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

Design Notes

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



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7 Bottom mao	t nave eneating att	doned of be contained	ory bracea.						
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-5-7		Тор	15 PLF	40 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-6-11 to 7-2-11		Far Face	51 PLF	136 PLF	0 PLF	0 PLF	
3	Part. Uniform	7-2-11 to 9-10-11		Far Face	41 PLF	109 PLF	0 PLF	0 PLF	
4	Point	10-6-11		Far Face	42 l b	112 b	0 l b	0 l b	J5
	Self Weight				5 PLF				

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

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

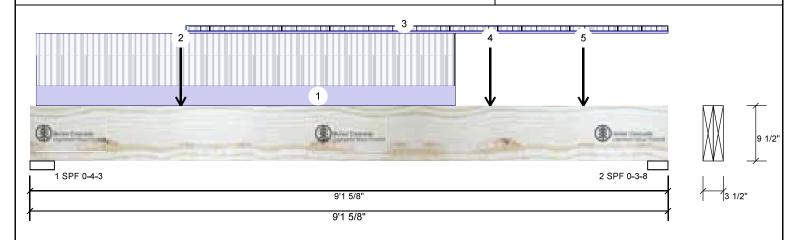




Address: **ZADORRA ESTATES** Job Name: RIVER 2-3 STD

OSHAWA,ON Project #

F8:HAF BUILD WERSES: Lam UVL 2.1E 3100 SP 1.750" X 9.500" PASSED



Member Inform	mation			Unfa	actored Rea	actions l	JNP	ATTERNED I I	b (Upli	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Li	ve	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	18	83	772		0	0
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical	13	48	555		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			Bear	rings and Fa	actored	Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 4.188"	Vert	42%	964 / 2825	3789	L	1.25D+1.5L
				2 -	SPF 3.500"	Vert	36%	694 / 2022	2716	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6999 ft-lb	4' 1/2"	23220 ft-lb	0.301 (30%)	1.25D+1.5L	L
Unbraced	6999 ft-lb	4' 1/2"	23220 ft-lb	0.301 (30%)	1.25D+1.5L	L
Shear	3234 lb	1'1 11/16"	10574 lb	0.306 (31%)	1.25D+1.5L	L
Perm Defl in	0.037 (L/2785)	4'5 11/16"	0.287 (L/360)	0.129 (13%)	D	Uniform
LL Defl inch	0.091 (L/1137)	4'5 11/16"	0.287 (L/360)	0.317 (32%)	L	L
TL Defl inch	0.128 (L/808)	4'5 11/16"	0.431 (L/240)	0.297 (30%)	D+L	L

Design Notes

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



JUNE 29, 2023

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7 Lateral blotta	siliess latio based oil	rian socion wiain.							
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-1-1 to 6-1-1		Far Face	100 PLF	266 PLF	0 PLF	0 PLF	
2	Point	2-1-15		Near Face	320 lb	782 l b	0 l b	0 l b	F4
3	Tie-In	2-2-13 to 9-1-10	0-8-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	6-7-1		Far Face	116 l b	310 l b	0 l b	0 l b	J4
5	Point	7-11-1		Far Face	133 l b	354 lb	0 l b	0 lb	J4
	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 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

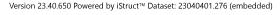
3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400

www.bc.com CCMC: 12472



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Page 28 of 31

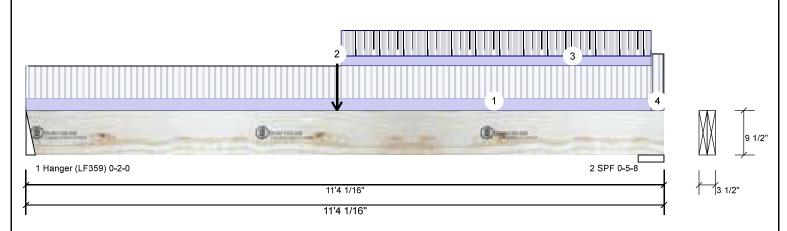


ZADORRA ESTATES Project:

Job Name: RIVER 2-3 STD Address: **ZADORRA ESTATES**

> OSHAWA, ON Project #

FOCHEFWARESPEICHM LVL 2.1E 3100 SP 1.750" X 9.500" Level: Second Floo RA&SED



Member Inform	nation			Unf	actored Rea	actions	UNP	ATTERNED II	b (Upli	ift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical		453	235		0	0
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical		502	256		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 F	actore	d Read	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	2.000"	Vert	13%	294 / 680	974	L	1.25D+1.5L
				_ Hai	nger						
Analysis Result	:S			2 -	SPF 5.500"	Vert	9%	320 / 753	1073	L	1.25D+1.5L

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

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 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 5'9 3/4" 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.

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

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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



Page 36 of 38

Page 29 of 31



Member Information

Client: **GREENPARK**

ZADORRA ESTATES Project:

6/28/2023 W C Input by:

Job Name: RIVER 2-3 STD Address: **ZADORRA ESTATES**

OSHAWA, ON

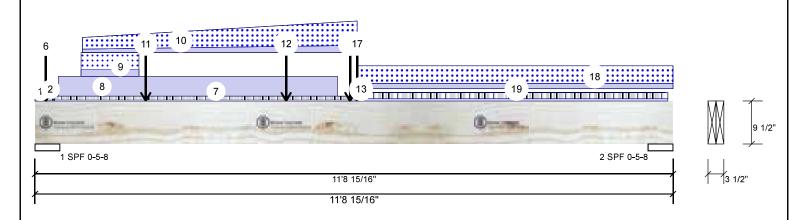
Project #

VL 2.1E 3100 SP

1.750" X 9.500'



Level: Second Floo



Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Li	ve	[
Plies:	2	Design Method:	LSD	1	Vertical	1:	34					
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	1:	58					
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			Bear	ings and Fa	actored	Reac	tions				
Dead:	15 PSF			Bea	ring Length	Dir.	Cap.	React D				
				1 - 3	SPF 5.500"	Vert	19%	968 /				
				4								

Unfactored	Reactions	UNPATTERNED Ib	(Uplift)
O I I I I I C C C C C C	I TCGC CIOIIS	OTHER PERSONS	(OP:

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	134	774	732	0
2	Vertical	158	415	498	0

Bearing Length Dir.

Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 5.500" Vert 19% 968 / 1232 2199 L 1.25D+1.5S +L 2 - SPF 5.500" Vert 12% 519 / 906 1425 L 1.25D+1.5S

Analysis Results Analysis Actual Location Allowed Comb. Case Capacity 5'4 1/4" 23220 ft-lb Moment 4720 ft-lb 0.203 (20%) 1.25D+1.5S L Unbraced 4720 ft-lb 5'4 1/4" 23220 ft-lb 0.203 (20%) 1.25D+1.5S L +L Shear 1621 lb 1'3" 10574 lb 0.153 (15%) 1.25D+1.5S L Perm Defl in. 0.064 (L/2040) 5'7 3/4" 0.365 (L/360) 0.176 (18%) D Uniform LL Defl inch 0.070 (L/1873) 5'9 7/16" 0.365 (L/360) 0.192 (19%) S+0.5L TL Defl inch 0.135 (L/977) 5'8 5/8" 0.548 (L/240) 0.246 (25%) D+S+0.5L



JUNE 29, 2023

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 5'11 3/16" 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.

7 Edicial ciclide field based of fair cociet with.										
	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Tie-In	0-0-0 to 0-4-6	0-1-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Tie-In	0-0-0 to 0-4-6	0-7-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	3	Point	0-2-7		Тор	2 l b	0 lb	5 lb	0 l b	
		Bearing Length	0-5-8							

Continued on page 2...

Design 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

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

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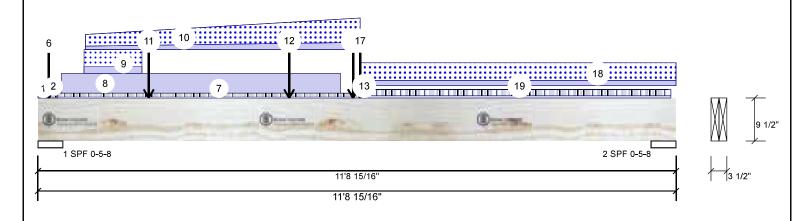




Address: **ZADORRA ESTATES** Job Name: RIVER 2-3 STD

OSHAWA,ON Project #

Level: Second Floo FOTHER BUILDING SECUL am UVL 2.1E 3100 SP 1.750" X 9.500" PASSED



Continued	from page 1								
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Point	0-2-7		Тор	1 lb	0 l b	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
5	Point	0-2-7		Тор	61 lb	0 l b	158 lb	0 l b	
	Bearing Length	0-5-8							
6	Point	0-2-7		Тор	32 lb	0 l b	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
7	Tie-In	0-4-6 to 5-9-7	0-4-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
8	Part. Uniform	0-5-3 to 5-6-13		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Part. Uniform	0-10-3 to 1-10-15		Тор	27 PLF	0 PLF	70 PLF	0 PLF	
10	Tapered Start	0-10-8		Тор	14 PLF	0 PLF	47 PLF	0 PLF	
	End	5-11-3			29 PLF	0 PLF	99 PLF	0 PLF	
11	Point	2-0-7		Тор	61 lb	0 l b	99 lb	0 l b	Header Column
	Bearing Length	0-5-8							
12	Point	4-7-7		Тор	56 lb	0 l b	85 lb	0 b	Header Column
	Bearing Length	0-5-8							
13	Tie-In	5-9-7 to 6-0-15	0-10-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
14	Point	5-9-9		Тор	11 lb	0 l b	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
15	Point	5-9-9		Тор	12 l b	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
16	Point	5-9-9		Тор	12 l b	0 l b	0 lb	0 b	Wall Self Weight
	Bearing Length	0-5-8							533
17	Point	5-11-3		Far Face	70 l b	53 lb	21 l b	0 l b	F12
18	Part. Uniform	5-11-3 to 11-8-15		Тор	21 PLF	0 PLF	72 PLF	0 PLF	13/
19	Tie-In	6-0-15 to 11-7-13	0-7-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	g I.M/
									Q 1.M/

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JUNE 29, 2023

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.

Self Weight

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

9 PLF

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