

### PLEASE READ ALL NOTES PRIOR TO INSTALLATION OF THE COMPONENT

### **RESPONSIBILTIES**

THE RESPONSIBILITY OF THE UNDERSIGNED ENGINEER IS ONLY LIMITED TO THE CALCULATION OF THIS BUILDING COMPONENT FOR THE LOADS AND CONDITIONS SHOWN ON THIS DRAWING.

THE RESPONSIBILITY OF THE UNDERSIGNED IS LIMITED TO THE VERIFICATION OF THE STRUCTURAL CAPACITY OF THE FLOOR JOISTS AND LVL BEAMS BASED ON PLACEMENT AS SHOWN ON THE LAYOUT. THE LOADS APPLIED ARE LIMITED TO THE GRAVITY EFFECTS OF THE SPECIFIED LOADS. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE EFFECT OF WIND, UPLIFT, SEISMIC, LATERAL OR OTHER FORCES, CALCULATION OF ADEQUATE SUPPORT AND ANCHORAGE OF COMPONENTS, AS WELL AS THE DIMENSIONS AND DESIGN LOADS USED TO CALCULATE COMPONENTS ARE THE RESPONSIBILITY OF THE OVERALL BUILDING DESIGNER. FLOOR JOISTS AND OSB RIM BOARD ARE DESIGNED TO CARRY UNIFORMLY DISTRIBUTED LOADS ONLY. POINT LOADS SHOULD BE TRANSFERRED THROUGH THE FLOOR CAVITY WITH TRANSFER BLOCKS. STRUCTURAL ELEMENTS SUCH AS WALLS, POSTS, CONNECTORS, AND TRANSFER BLOCKS ARE THE RESPONSIBILITY OF THE OVERALL BUILDING DESIGNER.

THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF BEING FURNISHED FAULTY OR INCORRECT INFORMATION, SPECIFICATIONS AND/OR DESIGNS.

### COMPONENT DESIGN INFORMATION

- 1. THIS BUILDING COMPONENT IS CERTIFIED AS AN INDIVIDUAL COMPONENT FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE BASED ON INFORMATION PROVIDED BY KOTT DESIGN.
- 2. THE BUILDING COMPONENT USED IN CONSTRUCTION MUST BE THE SAME AS INDICATED ON THE DRAWINGS.
- 3. UNLESS NOTED OTHERWISE ON THE LAYOUT OR BEAM CALCULATION SHEET, MEMBERS CONSISTING OF MULTIPLE PLIES MUST BE CONNECTED AS PER THE DOCUMENT "MULTIPLE MEMBER CONNECTION DETAILS" SHOWN ON PAGE 2 OF THIS DOCUMENT.
- 4. PASS-THRU TRANSFER BLOCK FRAMING IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.
- 5. IT IS ASSUMED THAT EACH LVL BEAM WHERE NOT SEATED IN A HANGER IS ATTACHED USING (4) FOUR 3-1/4" COMMON SPIRAL NAILS FOR UP TO 5.5" LONG BEARINGS AND USING (6) SIX 3-1/4" COMMON SPIRAL NAILS FOR BEARINGS EQUAL TO OR LONGER THAN 5.5", UNLESS INDICATED OTHERWISE.

### CODE

THIS BUILDING COMPONENT IS DESIGNED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA, THE ONTARIO BUILDING CODE, CCMC AND CANADIAN STANDARDS ASSOCIATION GUIDELINES.

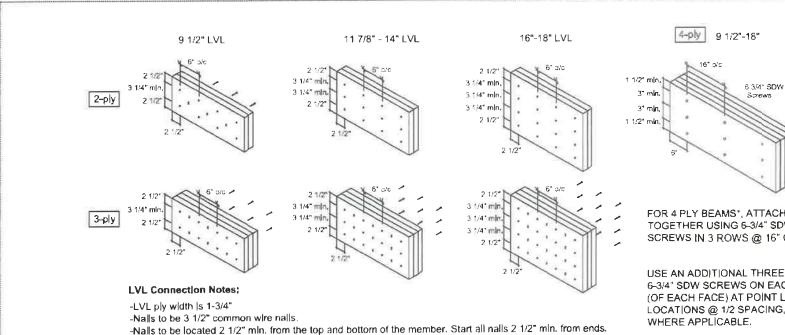
### HANDLING AND INSTALLATION

- 1. DO NOT DRILL ANY HOLE, CUT OR NOTCH A CERTIFIED BUILDING COMPONENT WITHOUT A WRITTEN PRE-AUTHORIZATION.
- 2. INSTALLATION AND ASSEMBLY OF FLOOR JOISTS AND LVL BEAMS IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUFACTURER'S LITERATURE.



# MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS

# MULTIPLE MEMBER CONNECTIONS FOR UNIFORMLY DISTRIBUTED TOP & SIDE LOADED LVL BEAMS SHOWN ON KOTT LAYOUTS



-Minimum 3 1/4" spacing between rows,

- "X" represents nall driven from the opposite side,

- Head of all specified screws must be on the loaded side.

-Number of rows and spacing as per details shown, unless noted otherwise.

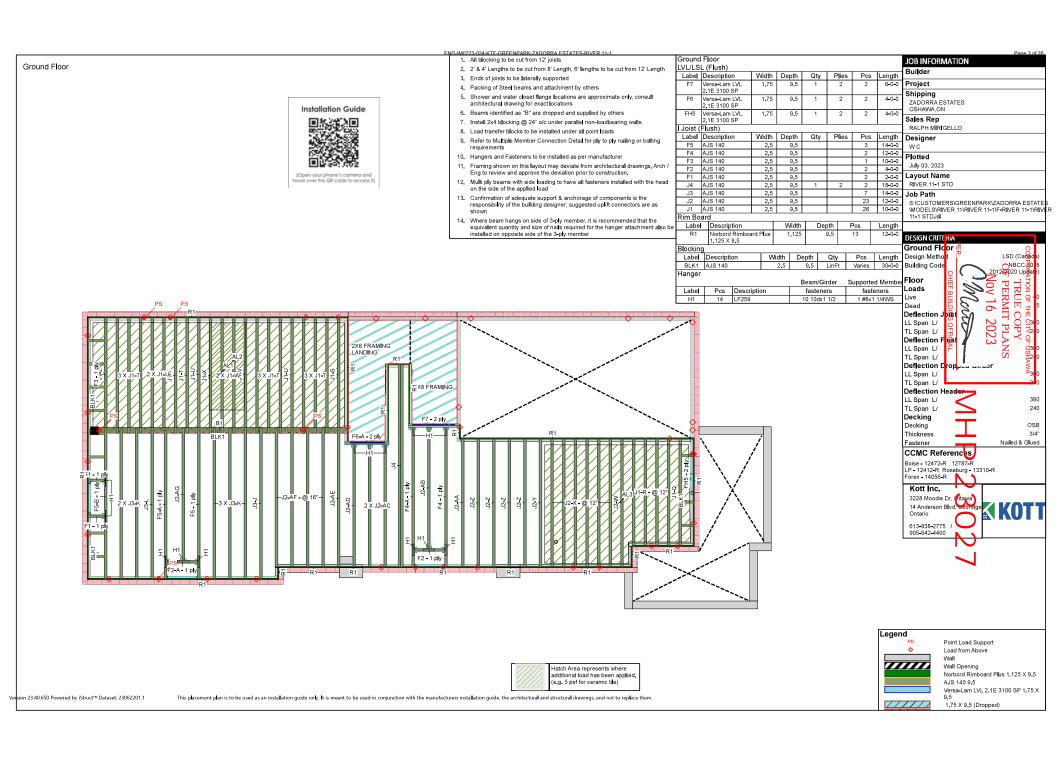
FOR 4 PLY BEAMS\*, ATTACH PLIES TOGETHER USING 6-3/4" SDW SCREWS IN 3 ROWS @ 16" C/C:

USE AN ADDITIONAL THREE (3) 6-3/4" SDW SCREWS ON EACH SIDE (OF EACH FACE) AT POINT LOAD LOCATIONS @ 1/2 SPACING,

\*UNLESS NOTED OTHERWISE ON LAYOUT OR CALCULATION SHEET OF BEAM IN THE FLOOR PACKAGE

FOR MULTIPLE MEMBER CONNECTION OF BOISE ALLJOISTS REFER TO THE BOISE CASCADE INSTALLATION GUIDE





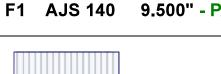
Client: Project: Address: TRUE COPY
ZADORRA ESTATES
OF PERMIT PLANS ZADORRA FSTATES OSF

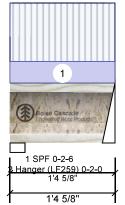
7/3/2023 Date: W C Input by:

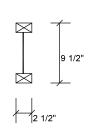
Job Name: RIVER 11-1 STD

Project #

Level Ground Floor







Page 4 of 26 Page 1 of 19

### Member Information Application: Floor (Residential) Type: Plies: 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

	Unfactored Reactions UNPATTERNED Ib (Uplift)								
	Brg	Direction	Live	Dead	Snow	Wind			
	1	Vertical	43	16	0	0			
<del>:</del> )	2	Vertical	42	16	0	0			

### Analysis Results Case Location Allowed Analysis Actual Capacity Comb. 1.25D+1.5L L Moment 20 ft-lb 8 1/2" 4095 ft-lb 0.005 (0%) Unbraced 20 ft-lb 8 1/2" 4095 ft-lb 0.005 (0%) 1.25D+1.5L L 1.25D+1.5L L 69 lb 1.5/8" 1830 lb 0.038 (4%) Shear Perm Defl in 0.000 8 1/2" 0.038 (L/360) 0.002 (0%) D Uniform (L/184191) 0.000 8 1/2" 0.038 (L/360) 0.005 (1%) L LL Defl inch (L/69072) TL Defl inch 0.000 8 1/2" 0.057 (L/240) 0.005 (0%) D+L

### **Bearings and Factored Reactions** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.375" Vert 5% 20 / 66 86 L 1.25D+1.5L 2.000" Vert 5% 19 / 63 82 L 1.25D+1.5L Hanger

# (L/50234) **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

Dead:

- 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.

<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-4-10	1-6-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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.

2 -

- 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

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.

Manufacturer Info

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

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

Kott Inc.





**AJS 140** 

F2

Client: Project: Address: TRUE COPY
ZADORRA ESTATES
LANS ZADORRA FSTATES OSF

Date: W C Input by:

Job Name: RIVER 11-1 STD

Project #

Level Ground Floor

Brg

1

1 -

2 -

Hanger

Hanger

Direction

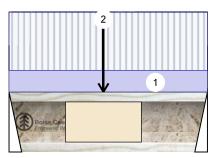
2.000"

2.000"

Vert

Vert

Vertical



1 Hanger (LF259) 0-2-0 2 Hanger 2'7 7/16"

2'7 7/16'

Wind

1.25D+1.5L

1.25D+1.5L

0

Snow

381 L

350 L

0

### Member Information

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)** Live

193

24%

22%

2	Vertical	1	78 67		0	0
Bea	rings and Fa	actored	Reactions			
Bea	aring Length	Dir.	Cap. React D/L lb	Total	Ld. Case	Ld. Comb.

90 / 291

83 / 267

Dead

72

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	390 ft-lb	1'2 15/16"	4095 ft-lb	0.095 (10%)	1.25D+1.5L	L
Unbraced	390 ft-lb	1'2 15/16"	4095 ft-lb	0.095 (10%)	1.25D+1.5L	L
Shear	375 lb	1 1/4"	1830 lb	0.205 (20%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/16850)	1'2 15/16"	0.080 (L/360)	0.021 (2%)	D	Uniform
LL Defl inch	0.005 (L/6306)	1'2 15/16"	0.080 (L/360)	0.057 (6%)	L	L
TL Defl inch	0.006 (L/4589)	1'2 15/16"	0.120 (L/240)	0.052 (5%)	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.

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	JULY 04, 2023	

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-7-7	0-8-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	1-2-15		Far Face	110 <b> </b> b	294 <b> </b> b	0 lb	0 <b>l</b> b	J2

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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 cut or drilled

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

  3. Damaged Lioists 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.





F2-A

**AJS 140** 

Client: Project: Address:

9.500" -

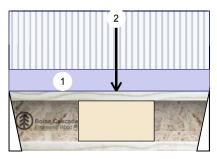
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LANS ZADORRA FSTATES OSF

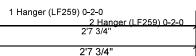
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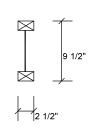
Job Name: RIVER 11-1 STD

Project #

Level Ground Floor







0

Wind

0

### Application: Floor (Residential) Type: Plies: 1 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF 15 PSF Dead:

Unfa	actored Re	eactions UNPA	TTERNED Ib	(Uplift)
Brg	Direction	Live	Dead	Snow

185

реа	Bearings and Factored Reactions									
Dani	Destings and Fastaved Desetions									
2	Vertical	210	79	0	0					

70

### Analysis Results

Member Information

Analysis	Actua <b>l</b>	Location	Allowed	Capacity	Comb.	Case
Moment	421 ft-lb	1'5"	4095 ft-lb	0.103 (10%)	1.25D+1.5L	L
Unbraced	421 ft-lb	1'5"	4095 ft-lb	0.103 (10%)	1.25D+1.5L	L
Shear	407 lb	2'6 1/2"	1830 lb	0.222 (22%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/15675)	1'5"	0.081 (L/360)	0.023 (2%)	D	Uniform
LL Defl inch	0.005 (L/5884)	1'5"	0.081 (L/360)	0.061 (6%)	L	L
TL Defl inch	0.007 (L/4278)	1'5"	0.122 (L/240)	0.056 (6%)	D+L	L

1

Vertical

Bearing	Length	Dir.	Cap. R	eact D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 -	2.000"	Vert	23%	87 / 278	365	L	1.25D+1.5L
Hanger							
2 -	2.000"	Vert	26%	98 / 315	413	L	1.25D+1.5L
Hanger							



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### **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
- 7 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	
I 4	Tio In	0 0 0 to 2 7 12	0.9.14	Ton	15 DCE	40 PSE	

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-7-12	0-8-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	1-5-0		Far Face	119 <b> </b> b	317 <b> </b> b	0 lb	0 lb	J2

### 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 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.





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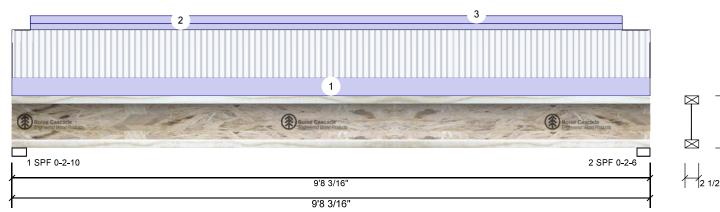
F3 **AJS 140** 9.500" - PA

ZADORRA ESTATES OSF

Date: 7/3/2023 Input by: W C Job Name: RIVER 11-1 STD

Project #

Level Ground Floor



Member Inforn	nation			Unfactored Reactions UNPATTERNED lb (Uplift)						
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind	
Plies:	1	Design Method:	LSD	1	Vertical	149	97	0	0	
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	148	95	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. Cap.	React D/L lb	Total Ld. Case	Ld. Comb.	
				1 -	SPF 2.625"	Vert 20%	121 / 224	345 L	1.25D+1.5L	
				2 -	SPF 2.375"	Vert 21%	119 / 223	342 L	1.25D+1.5L	

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	790 ft-lb	4'10 3/16"	4095 ft-lb	0.193 (19%)	1.25D+1.5L	L
Unbraced	790 ft-lb	4'10 3/16"	4095 ft-lb	0.193 (19%)	1.25D+1.5L	L
Shear	335 lb	1 7/8"	1830 <b>l</b> b	0.183 (18%)	1.25D+1.5L	L
Perm Defl in.	0.024 (L/4721)	4'10 3/16"	0.313 (L/360)	0.076 (8%)	D	Uniform
LL Defl inch	0.036 (L/3150)	4'10 1/4"	0.313 (L/360)	0.114 (11%)	L	L
TL Defl inch	0.060 (L/1889)	4'10 1/4"	0.469 (L/240)	0.127 (13%)	D+L	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 9-8-3	0-9-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-3-5 to 9-3-2		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-3-5 to 9-3-2		Тор	5 PLF	0 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. 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.

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



CSD DESIGN







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LANS ZADORRA FSTATES OSF

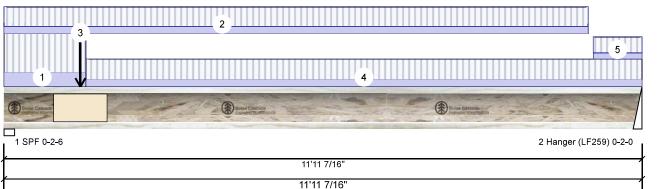
WC Input by:

Job Name: RIVER 11-1 STD

Project #

Level Ground Floor

**AJS 140** 



P	1
	9 1/2"
	<del></del>
<del>   </del> 2 -	1/2"

### Member Information

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		

### **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	547	205	0	0
2	Vertical	363	136	0	0
1					

### Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2227 ft-lb	5'7 5/16"	4095 ft-lb	0.544 (54%)	1.25D+1.5L	L
Unbraced	2227 ft-lb	5'7 5/16"	4095 ft-lb	0.544 (54%)	1.25D+1.5L	L
Shear	1054 <b>l</b> b	1 5/8"	1830 <b>l</b> b	0.576 (58%)	1.25D+1.5L	L
Perm Defl in.	0.066 (L/2118)	5'10 5/16"	0.390 (L/360)	0.170 (17%)	D	Uniform
LL Defl inch	0.177 (L/795)	5'10 5/16"	0.390 (L/360)	0.453 (45%)	L	L
TL Defl inch	0.243 (L/578)	5'10 5/16"	0.586 (L/240)	0.415 (42%)	D+L	L

### **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	65%	257 / 820	1077	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	45%	170 / 544	714	L	1.25D+1.5L

### **Design Notes**

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



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6 Bottom flange must be laterally braced at a maximum of 10'6 1/4" o.c.
---

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-6-7	1-4-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 10-11-5	0-8-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-3		Far Face	67 <b>l</b> b	178 <b>l</b> b	0 lb	0 lb	F2
4	Tie-In	1-6-7 to 11-11-7	0-8-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	11-0-7 to 11-11-7	0-7-2	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

  1. Uoist flanges must not be cut or drilled
  2. Refer to latest copy of the Uoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-pt/ patening details and handling/erection detail
  3. Damaged Diolsts must not be used
  4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

  This:

  This

### Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

## Kott Inc.





**Unfactored Reactions UNPATTERNED lb (Uplift)** 



**AJS 140** 

Client: Project: Address:

9.500" -

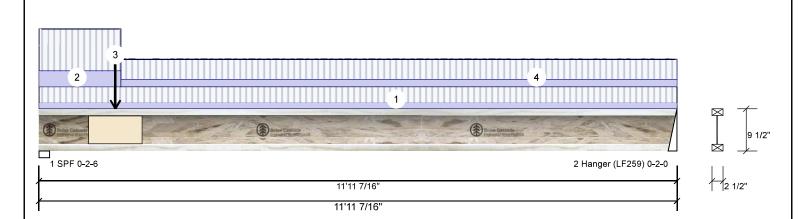
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Date: W C Input by:

Job Name: RIVER 11-1 STD

Project #

Level Ground Floor



Type:	Girder	Application:	Floor (Residential)	Brg	Direction	- 1	_ive	Dead		Snow
Plies:	1	Design Method:	LSD	1	Vertical		504	189		0
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical		312	117		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	l Read	ctions		
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case
				1 -	SPF 2.375"	Vert	60%	236 / 756	992	L
				2 -	2.000"	Vert	39%	146 / 468	614	L

### **Analysis Results**

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1918 ft-lb	5'6"	4095 ft-lb	0.468 (47%)	1.25D+1.5L	L
Unbraced	1918 ft-lb	5'6"	4095 ft-lb	0.468 (47%)	1.25D+1.5L	L
Shear	971 <b>l</b> b	1 5/8"	1830 <b>l</b> b	0.531 (53%)	1.25D+1.5L	L
Perm Defl in.	0.057 (L/2454)	5'9 15/16"	0.390 (L/360)	0.147 (15%)	D	Uniform
LL Defl inch	0.153 (L/920)	5'9 15/16"	0.390 (L/360)	0.391 (39%)	L	L
TL Defl inch	0.210 (L/669)	5'9 15/16"	0.586 (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 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 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.

6 Bottom flange must be laterally braced at a maximum of 10'6 1/4" o.c.



VCE OF JULY 04, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 11-11-7	0-6-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-6-7	1-4-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-3		Near Face	72 <b>l</b> b	193 <b>l</b> b	0 lb	0 <b>l</b> b	F2
4	Tie-In	1-6-7 to 11-11-7	0-8-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

### Notes

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

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.

Hanger

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 poorline.

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

Wind

Ld. Comb. 1.25D+1.5L

1.25D+1.5L

0

0





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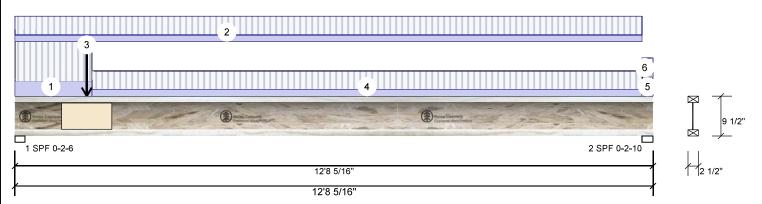
Date: 7/3/2023 W C Input by:

Job Name: RIVER 11-1 STD

Project #

Devel Ground Floor





Member Inform	nation			Unf	actored Rea	actions	UNP	ATTERNED <b>i</b> i	o (Up <b>l</b> i	ift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	5	70	214		0	0
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical	3	60	135		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	Read	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	68%	268 / 855	1123	L	1.25D+1.5L
				<del> </del> 2-	SPF 2.625"	Vert	42%	169 / 540	709	L	1.25D+1.5L

### Analysis Results

Ana <b>l</b> ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2325 ft-lb	5'10 9/16"	4095 ft-lb	0.568 (57%)	1.25D+1.5L	L
Unbraced	2325 ft-lb	5'10 9/16"	4095 ft-lb	0.568 (57%)	1.25D+1.5L	L
Shear	1100 lb	1 5/8"	1830 lb	0.601 (60%)	1.25D+1.5L	L
Perm Defl in	0.077 (L/1937)	6'2 3/16"	0.413 (L/360)	0.186 (19%)	D	Uniform
LL Defl inch	0.205 (L/727)	6'2 3/16"	0.413 (L/360)	0.495 (50%)	L	L
TL Defl inch	0.282 (L/528)	6'2 3/16"	0.620 (L/240)	0.454 (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 11'3 3/16" o.c.



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<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-6-6	1-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-5-11	0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-2		Far Face	79 <b>l</b> b	210 <b>l</b> b	0 lb	0 lb	F2
4	Tie-In	1-6-6 to 12-5-11	0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	12-5-11 to 12-8-5	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Tie-In	12-5-11 to 12-8-5	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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.







**AJS 140** 

F5-A

Client: Project: Address:

9.500" -

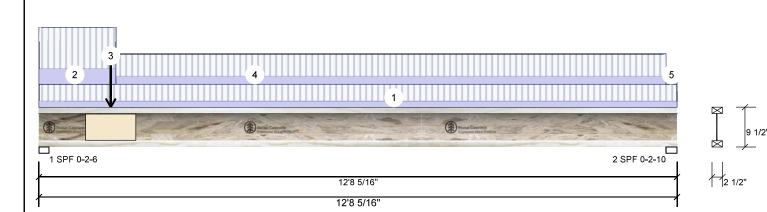
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Date: 7/3/2023 W C Input by:

Job Name: RIVER 11-1 STD

Project #

Devel Ground Floor



Member Infor	mation			Unfa	actored Rea	ctions U	NPA	ATTERNED II	b (Up <b>l</b> i	ift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Э	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	54:	2	204		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	35	7	134		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bea	rings and Fa	actored R	leac	tions			
Dead:	15 PSF			Bea	aring Length	Dir. C	ар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert 6	35%	255 / 813	1068	L	1.25D+1.5L
				2 -	SPF 2.625"	Vert 4	11%	168 / 536	704	L	1.25D+1.5L

### Analysis Results

Ana <b>l</b> ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2288 ft-lb	5'11 3/16"	4095 ft-lb	0.559 (56%)	1.25D+1.5L	L
Unbraced	2288 ft-lb	5'11 3/16"	4095 ft-lb	0.559 (56%)	1.25D+1.5L	L
Shear	1047 <b>l</b> b	1 5/8"	1830 lb	0.572 (57%)	1.25D+1.5L	L
Perm Defl in	0.076 (L/1970)	6'2 3/8"	0.413 (L/360)	0.183 (18%)	D	Uniform
LL Defl inch	0.201 (L/740)	6'2 3/8"	0.413 (L/360)	0.487 (49%)	L	L
TL Defl inch	0.277 (L/538)	6'2 3/8"	0.620 (L/240)	0.446 (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 11'3 3/16" o.c.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-8-5	0-6-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-6-6	1-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-2		Near Face	70 <b>l</b> b	185 lb	0 <b>l</b> b	0 <b>l</b> b	F2
4	Tie-In	1-6-6 to 12-5-11	0-9-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	12-5-11 to 12-8-5	0-5-2	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 cut 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







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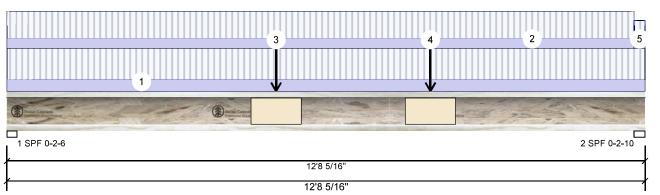
Job Name: RIVER 11-1 STD

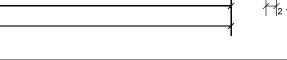
Project #

Level Ground Floor

**AJS 140** F5-B

9.500" -





### **Member Information** Type:

Plies: 1 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

General Load 40 PSF

Floor Live: 15 PSF Dead:

### Application: Floor (Residential)

Design Method: LSD **Building Code: NBCC 2015** 

OBC 2012(2020 Update) Load Sharing:

Not Checked Deck:

Vibration: Not Checked

### **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	402	151	0	0
2	Vertical	409	154	0	0

### **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap.	React D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	48%	189 / 602	791	L	1.25D+1.5L
2 - SPF	2.625"	Vert	47%	192 / 614	806	L	1.25D+1.5L

### Analysis Results

Ana <b>l</b> ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2559 ft-lb	6'3 1/4"	4095 ft-lb	0.625 (62%)	1.25D+1.5L	L
Unbraced	2559 ft-lb	6'3 1/4"	4095 ft-lb	0.625 (62%)	1.25D+1.5L	L
Shear	790 <b>l</b> b	12'6 7/16"	1830 <b>l</b> b	0.432 (43%)	1.25D+1.5L	L
Perm Defl in	0.083 (L/1796)	6'4 1/8"	0.413 (L/360)	0.200 (20%)	D	Uniform
LL Defl inch	0.220 (L/675)	6'4 1/8"	0.413 (L/360)	0.533 (53%)	L	L
TL Defl inch	0.303 (L/491)	6'4 1/8"	0.620 (L/240)	0.489 (49%)	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 5'4 1/4" o.c.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-8-5	0-9-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-5-11	0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	5-4-4		Far Face	16 <b>l</b> b	42 <b>l</b> b	0 lb	0 lb	F1
4	Point	8-5-1		Far Face	16 <b>l</b> b	42 <b>l</b> b	0 lb	0 lb	F1
5	Tie-In	12-5-11 to 12-8-5	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

### Notes

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

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.

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.





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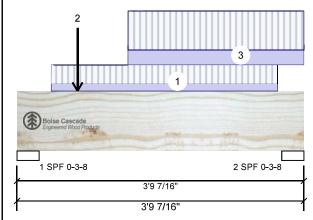
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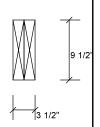
Job Name: RIVER 11-1 STD

Project #

Versa-Lam LVL 2.1E 3100 SF







Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Page 13 of 26 Page 10 of 19

# **Member Information**

туре.	Girdei
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal -

General Load 40 PSF Floor Live: 15 PSF Dead:

Ш

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)** 

**Bearings and Factored Reactions** 

Dir.

Vert

Vert

Bearing Length

1 - SPF 3.500"

2 - SPF 3.500"

Br	g Direction	Live	Dead	Snow	Wind
1	Vertical	542	222	0	0
2	<u>Vertical</u>	624	252	0	0

Cap. React D/L lb

277 / 814

315 / 936

14%

17%

Total Ld. Case

1091 L

1251 L

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	951 ft-lb	1'11 1/16"	23220 ft-lb	0.041 (4%)	1.25D+1.5L	L
Unbraced	951 ft-lb	1'11 1/16"	23220 ft-lb	0.041 (4%)	1.25D+1.5L	L
Shear	1316 lb	1'1"	10574 lb	0.124 (12%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/50357)	1'10 3/4"	0.111 (L/360)	0.007 (1%)	D	Uniform
LL Defl inch	0.002 (L/20302)	1'10 3/4"	0.111 (L/360)	0.018 (2%)	L	L
TL Defl inch	0.003 (L/14469)	1'10 3/4"	0.166 (L/240)	0.017 (2%)	D+L	L

# I.MATIJEVIC 100528832 JULY 04, 2023

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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 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.

ID	Load Type	Location Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Part. Uniform	0-5-7 to 3-5-4	Тор	44 PLF	117 PLF	0 PLF	0 PLF		
2	Point	0-9-9	Near Face	98 <b>l</b> b	260 lb	0 lb	0 lb	J2	
3	Part. Uniform	1-5-9 to 3-9-7	Near Face	90 PLF	240 PLF	0 PLF	0 PLF		
	Self Weight			9 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
 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





Level Ground Floor



Client: Project: Address:

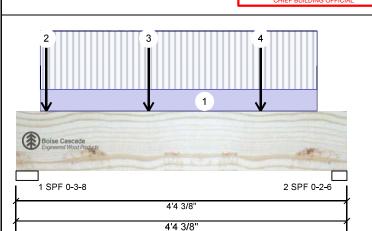
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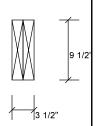
7/3/2023 Date: W C Input by:

Job Name: RIVER 11-1 STD

Project #

Versa-Lam LVL 2.1E 3100 SP





1.25D+1.5L

### **Member Information Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 2 Design Method: LSD 264 Vertical 648 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 467 195 n 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" Vert 17% 330 / 972 1302 L 1.25D+1.5L

2 - SPF 2.375"

Vert

18%

### Analysis Results

Ana <b>l</b> ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1053 ft-lb	1'9"	23220 ft-lb	0.045 (5%)	1.25D+1.5L	L
Unbraced	1053 ft-lb	1'9"	23220 ft-lb	0.045 (5%)	1.25D+1.5L	L
Shear	1239 lb	1'1"	10574 <b>l</b> b	0.117 (12%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/38146)	2'2 13/16"	0.133 (L/360)	0.009 (1%)	D	Uniform
LL Defl inch	0.003 (L/15658)	2'2 13/16"	0.133 (L/360)	0.023 (2%)	L	L
TL Defl inch	0.004 (L/11101)	2'2 13/16"	0.200 (L/240)	0.022 (2%)	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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-3-13 to 3-11-11		Тор	15 PLF	40 PLF	0 PLF	0 PLF	
2	Point	0-4-13		Near Face	117 <b>l</b> b	312 <b>l</b> b	0 lb	0 lb	F4
3	Point	1-9-0		Near Face	110 <b>l</b> b	294 <b>l</b> b	0 lb	0 lb	J2
4	Point	3-2-12		Near Face	136 lb	363 lb	0 lb	0 lb	F4
	Self Weight				9 PLF				

Notes

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

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

# Handling & Installation

LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-by 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

6. For flat roofs provide proper drainage to prevent ponding



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944 L

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

Manufacturer Info Kott Inc.

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







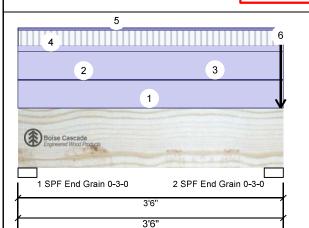
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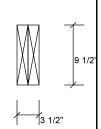
Date: 7/3/2023 W C Input by:

Job Name: RIVER 11-1 STD

Project #

Versa-Lam LVL 2.1E 3100 SP





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

### **Unfactored Reactions UNPATTERNED Ib (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	40	183	0	0
2	Vertical	126	736	469	0

### Analysis Results

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	202 ft-lb	1'9"	15093 ft-lb	0.013 (1%)	1.25D+1.5L	L
Unbraced	202 ft-lb	1'9"	15093 ft-lb	0.013 (1%)	1.25D+1.5L	L
Shear	207 lb	2'5 1/2"	6873 <b>l</b> b	0.030 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/79968)	1'9"	0.104 (L/360)	0.005 (0%)	D	Uniform
LL Defl inch	0.000 (L/363219)	1'9"	0.104 (L/360)	0.001 (0%)	L+0.5S	L
TL Defl inch	0.001 (L/65539)	1'9"	0.156 (L/240)	0.004 (0%)	D+L+0.5S	L

### **Bearings and Factored Reactions**

ſ	Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
	1 - SPF End Grain	3.000"	Vert	4%	229 / 60	289	L	1.25D+1.5L
l	2 - SPF End Grain	3.000"	Vert	18%	920 / 830	1750	L	1.25D+1.5S +L

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

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JULY 04, 2023

ID	Load Type	Location Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-6-0	Тор	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-6-0	Near Face	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 3-6-0	Near Face	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0	Near Face	9 PLF	23 PLF	0 PLF	0 PLF	

Continued on page 2...

### Notes

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

# Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

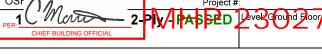
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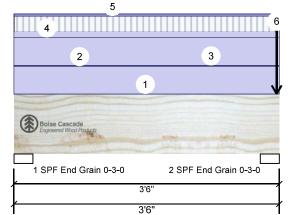
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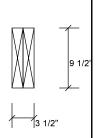




Versa-Lam LVL 2.1E 3100 SP FH5







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Continued	trom	page	1
ID		Los	۰.

Self Weight

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	End	3-6-0			9 PLF	23 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 3-6-0		Near Face	3 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
6	Point	3-5-10		Тор	553 lb	86 lb	469 lb	0 lb	Header Column Header Column
	Bearing Length	0-3-8							

9 PLF



NCE OF OF JULY 04, 2023

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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

Manufacturer Info

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

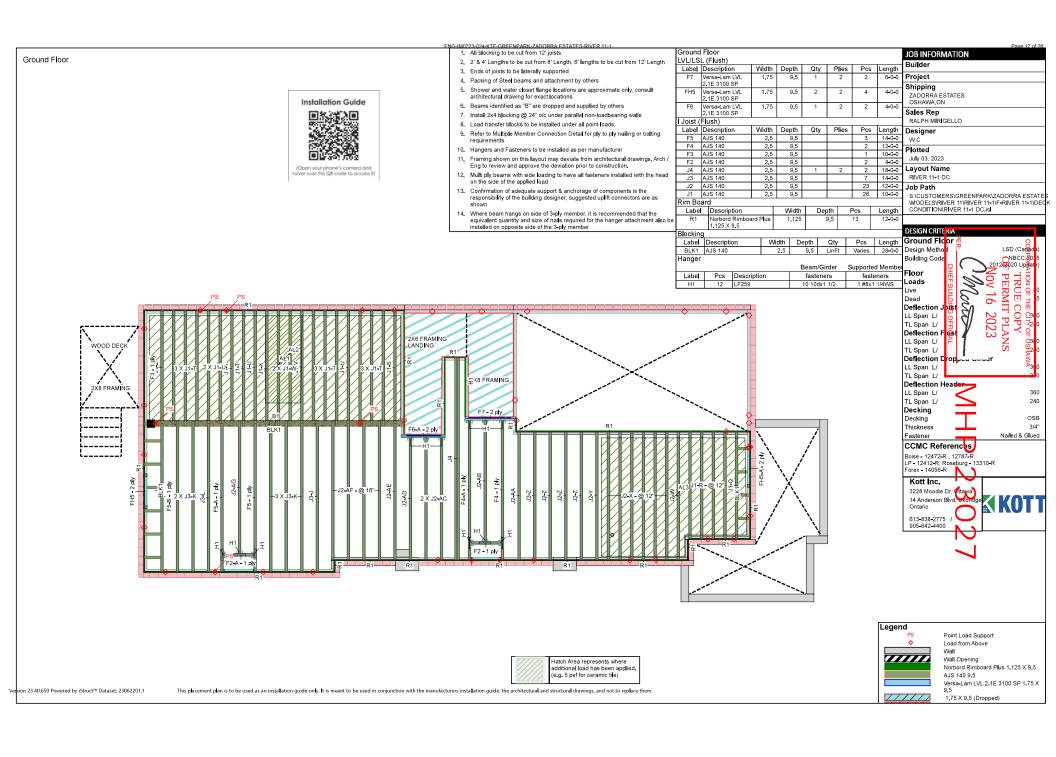
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Date: W C Input by: Job Name: RIVER 11-1 DC

Project #

Brg

1

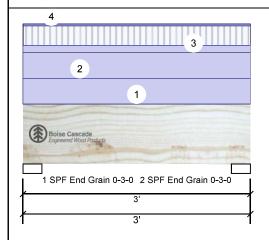
2

Grain

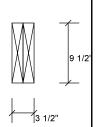
Direction

Vertical

Vertica



Versa-Lam LVL 2.1E 3100 SP



Wind

0

0

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

1		
1		

**Unfactored Reactions UNPATTERNED lb (Uplift)** 

Live

47

47

Bearings and Factored Reactions													
Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.						
1 - SPF End Grain	3.000"	Vert	3%	200 / 70	269	L	1.25D+1.5L						
2 - SPF Fnd	3.000"	Vert	3%	200 / 70	269	L	1.25D+1.5L						

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Dead

160

160

Snow

0

0

### Analysis Results

Analysis	Actua <b>l</b>	Location	Allowed	Capacity	Comb.	Case
Moment	155 ft-lb	1'6"	16950 ft-lb	0.009 (1%)	1.25D+1.5L	L
Unbraced	155 ft-lb	1'6"	16950 ft-lb	0.009 (1%)	1.25D+1.5L	L
Shear	184 <b>l</b> b	1' 1/2"	7719 <b>l</b> b	0.024 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/127609)	1'6"	0.088 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.000 (L/438262)	1'6"	0.088 (L/360)	0.001 (0%)	L	L
TL Defl inch	0.000 (L/98832)	1'6"	0.131 (L/240)	0.002 (0%)	D+L	L

# **Design Notes**

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

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JULY 04, 2023

<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-0-0		Тор	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-0-0		Near Face	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Near Face	12 PLF	31 PLF	0 PLF	0 PLF	
	End	3-0-0			12 PLF	31 PLF	0 PLF	0 PLF	

Continued on page 2...

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

## Handling & Installation

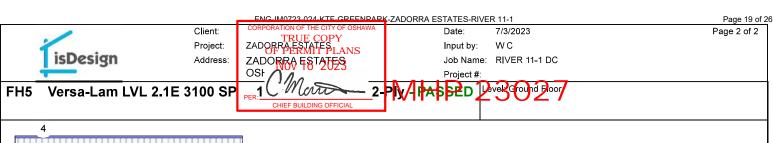
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-by fastening details, beam strength values, and code approvals Damaged Beams must not be used
- Design assumes top edge is laterally restrained
  Provide lateral support at bearing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

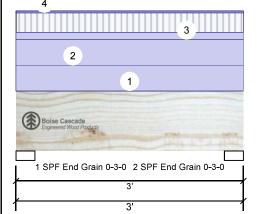
6. For flat roofs provide proper drainage to prevent ponding

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

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Part. Uniform

.Continued from page 1

4

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

3 PLF

0 PLF

0 PLF

0 PLF

Rim Board Self Weight

Self Weight 9 PLF

0-0-0 to 3-0-0

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Handling & Installation

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6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

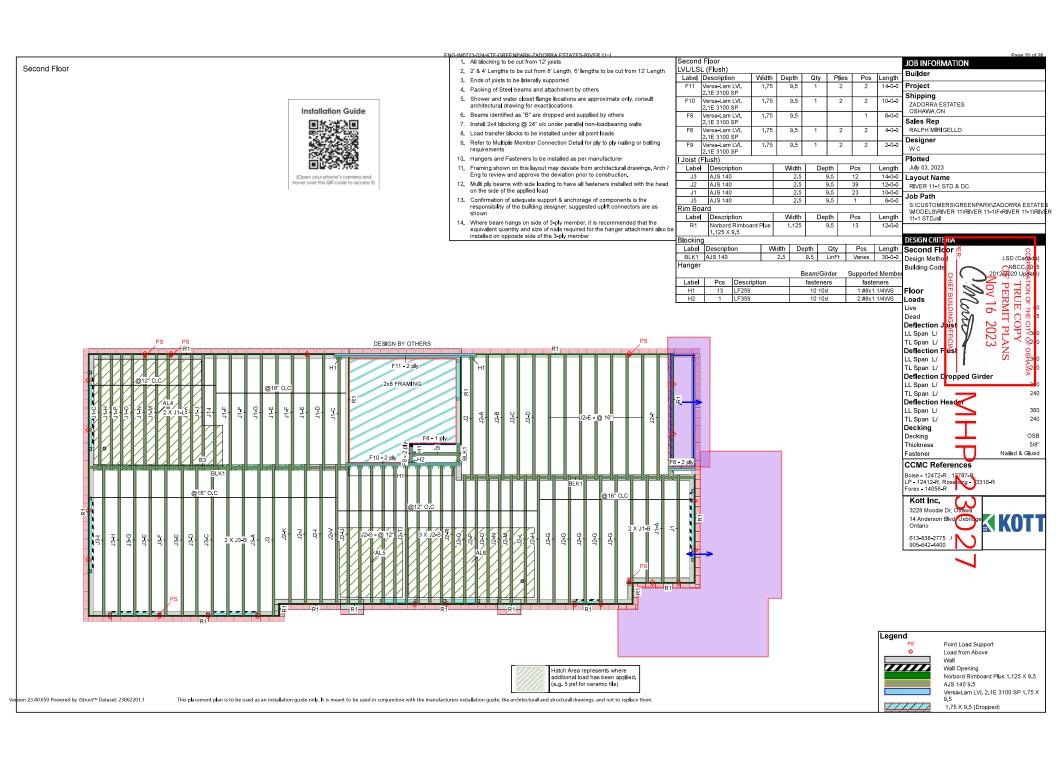
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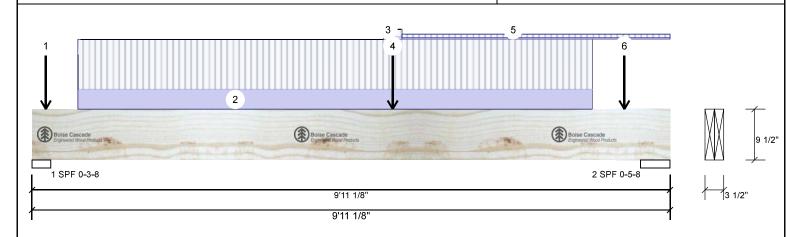




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Job Name: RIVER 11-1 STD

Project #



Member Infor	mation			Unfactored Reactions UNPATTERNED lb (Uplift)									
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead		Snow	Wind		
Plies:	2	Design Method:	LSD	1	Vertical	10	75	484		0	0		
Moisture Conditio	n: Dry	Building Code:	NBCC 2015	2	Vertical	12	214	541		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.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.		
				1 - 8	SPF 3.500"	Vert	29%	605 / 1613	2218	L	1.25D+1.5L		
				2 - 5	SPF 5.500"	Vert	21%	676 / 1822	2497	L	1.25D+1.5L		

### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5452 ft-lb	5' 3/8"	23220 ft-lb	0.235 (23%)	1.25D+1.5L	L
Unbraced	5452 ft-lb	5' 3/8"	23220 ft-lb	0.235 (23%)	1.25D+1.5L	L
Shear	2572 lb	8'8 1/8"	10574 lb	0.243 (24%)	1.25D+1.5L	L
Perm Defl in.	0.035 (L/3156)	4'10 13/16"	0.310 (L/360)	0.114 (11%)	D	Uniform
LL Defl inch	0.079 (L/1411)	4'10 7/8"	0.310 (L/360)	0.255 (26%)	L	L
TL Defl inch	0.114 (L/975)	4'10 7/8"	0.465 (L/240)	0.246 (25%)	D+L	L

### **Design Notes**

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



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<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-2-9		Near Face	30 lb	74 <b>l</b> b	0 <b>l</b> b	0 lb	J2
2	Part. Uniform	0-8-9 to 8-8-9		Near Face	94 PLF	232 PLF	0 PLF	0 PLF	
3	Tie-In	5-5-9 to 5-9-1	0-10-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	5-7-5		Far Face	20 lb	35 lb	0 <b>l</b> b	0 lb	F9
5	Tie-In	5-9-1 to 9-11-2	0-5-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 2...

### Notes

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

## Handling & Installation

- Handling & Installation

  1. UVI beams must not be cut or drilled

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

  3. Damaged Beams must not be used

  4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

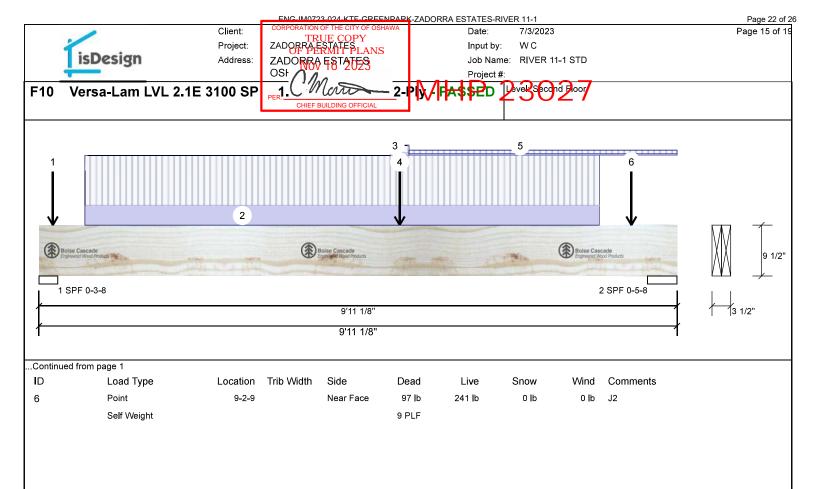
### Manufacturer Info Boise Cascade Wood Products

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Kott Inc.

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



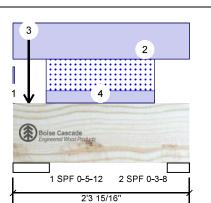
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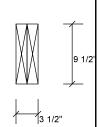
Job Name: RIVER 11-1 STD

Project #

Versa-Lam LVL 2.1E 3100 SP



2'3 15/16'



### **Member Information Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Type: Brg Direction Live Dead Snow Wind Plies: 2 Design Method: LSD 159 Vertical 0 190 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertica n 113 44 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 237 / 239 1 - SPF 5.750" Vert 4% 476 L 1.25D+1.5S 2 - SPF 3.500" Vert 3% 158 / 0 158 Uniform 1.4D

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	87 ft-lb	1'3"	21130 ft-lb	0.004 (0%)	1.25D+1.5S	L
Unbraced	87 ft-lb	1'3"	21130 ft-lb	0.004 (0%)	1.25D+1.5S	L
Shear	9 lb	1'2 15/16"	6873 lb	0.001 (0%)	1.4D	Uniform
Perm Defl in.	0.000 (L/380742)	1'3 1/16"	0.056 (L/360)	0.001 (0%)	D	Uniform
LL Defl inch	0.000 (L/655259)	1'3"	0.056 (L/360)	0.001 (0%)	S	L
TL Defl inch	0.000 (L/240819)	1'3 1/16"	0.084 (L/240)	0.001 (0%)	D+S	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 2'3 15/16" o.c.
- 6 Bottom must be laterally braced at bearings.
- 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.

<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Part. Uniform	0-0-0 to 0-0-4		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	
2	Part. Uniform	0-0-0 to 2-3-15		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	
3	Point	0-2-8		Тор	54 lb	0 <b>l</b> b	103 <b>l</b> b	0 lb	F12	
	Bearing Length	0-5-8								

Continued on page 2...

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-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

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





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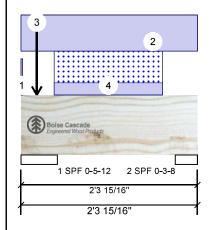
Job Name: RIVER 11-1 STD

Project #

Versa-Lam LVL 2.1E 3100 SP

OSŁ

Level Second Floor



Part. Uniform

Page 24 of 26

Page 17 of 19

.Continued from page 1

4

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

27 PLF

0 PLF

70 PLF

Self Weight 9 PLF

0-5-4 to 1-10-7

PROFESSIONAL I.MATIJEVIC 100528832 INCE OF ONTO

0 PLF

JULY 04, 2023

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### 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

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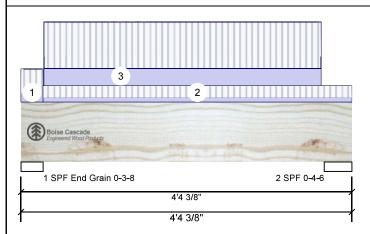
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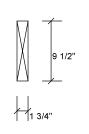
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Project #

Versa-Lam LVL 2.1E 3100 S F8







Wind

Ld. Comb.

1.25D+1.5L

Snow

### Member Information Application: Floor (Residential) Type: Plies: 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

### Vertical 165 72 0 1 0 2 Vertical 159 70 n 0

Dead

### Analysis Results Location Allowed Analysis Actual Capacity Comb. Case Moment 314 ft-lb 2'1 3/4" 11610 ft-lb 0.027 (3%) 1.25D+1.5L L Unbraced 314 ft-lb 2'1 3/4" 11610 ft-lb 0.027 (3%) 1.25D+1.5L L 1.25D+1.5L L 187 lb 3'2 1/2" 5287 lb 0.035 (4%) Shear Perm Defl in. 0.001 2'1 13/16" 0.128 (L/360) 0.006 (1%) Uniform (L/64611) 0.002 2'1 13/16" 0.128 (L/360) 0.013 (1%) L LL Defl inch (L/27778)

### **Bearings and Factored Reactions** Bearing Length Dir. Cap. React D/L lb Total Ld. Case 1 - SPF 3.500" Vert 5% 90 / 248 338 L

**Unfactored Reactions UNPATTERNED lb (Uplift)** 

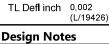
Live

End Grain

Brg

Direction

2 - SPF 4.375" Vert 88 / 239 327 L 1.25D+1.5L



Dead:

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.

2'1 13/16" 0.192 (L/240) 0.012 (1%) D+L

- 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

15 PSF



+ Dottom mast b	oc laterally braced at i	ocumigo.							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-3-8	0-10-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-3-8 to 4-4-6	0-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-3-10 to 3-11-8		Тор	25 PLF	67 PLF	0 PLF	0 PLF	
	Self Weight				5 PLF		DEAD ALL NO	TES ON THE	S DACE AND ON

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

### Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

### Manufacturer Info

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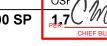
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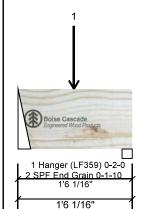
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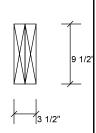
Job Name: RIVER 11-1 STD

Project #

Versa-Lam LVL 2.1E 3100 SP







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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	35	20	0	0	
2	Vertical	32	19	0	0	

### **Analysis Results**

Analysis	Actua <b>l</b>	Location	Allowed	Capacity	Comb.	Case
Moment	46 ft-lb	8 7/8"	23220 ft-lb	0.002 (0%)	1.25D+1.5L	L
Unbraced	46 ft-lb	8 7/8"	23220 ft-lb	0.002 (0%)	1.25D+1.5L	L
Shear	76 <b>l</b> b	11 1/2"	10574 lb	0.007 (1%)	1.25D+1.5L	L
Perm Defl in	0.000 (L/1832581)	8 7/8"	0.044 (L/360)	0.000 (0%)	D	Uniform
LL Defl inch	0.000 (L/881959)	8 7/8"	0.044 (L/360)	0.000 (0%)	L	L
TL Defl inch	0.000 (1/595409)	8 7/8"	0.067 (L/240)	0.000 (0%)	D+L	L

### **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap. R	React D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	1%	25 / 53	78	L	1.25D+1.5L
2 - SPF End Grain	1.628"	Vert	1%	24 / 48	71	L	1.25D+1.5L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 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 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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<b>I</b> D	Load Type	Location Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-8-14	Near Face	25 <b>l</b> b	67 <b>l</b> b	0 <b>l</b> b	0 <b>l</b> b	J5
	Self Weight			9 PLF				

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### Handling & Installation

Handling & Installation

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