

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.

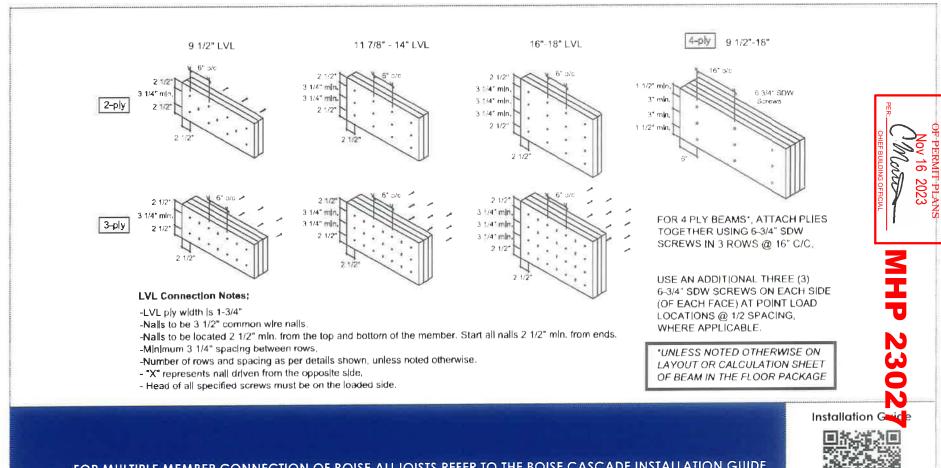
HANDLING AND INSTALLATION

- 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

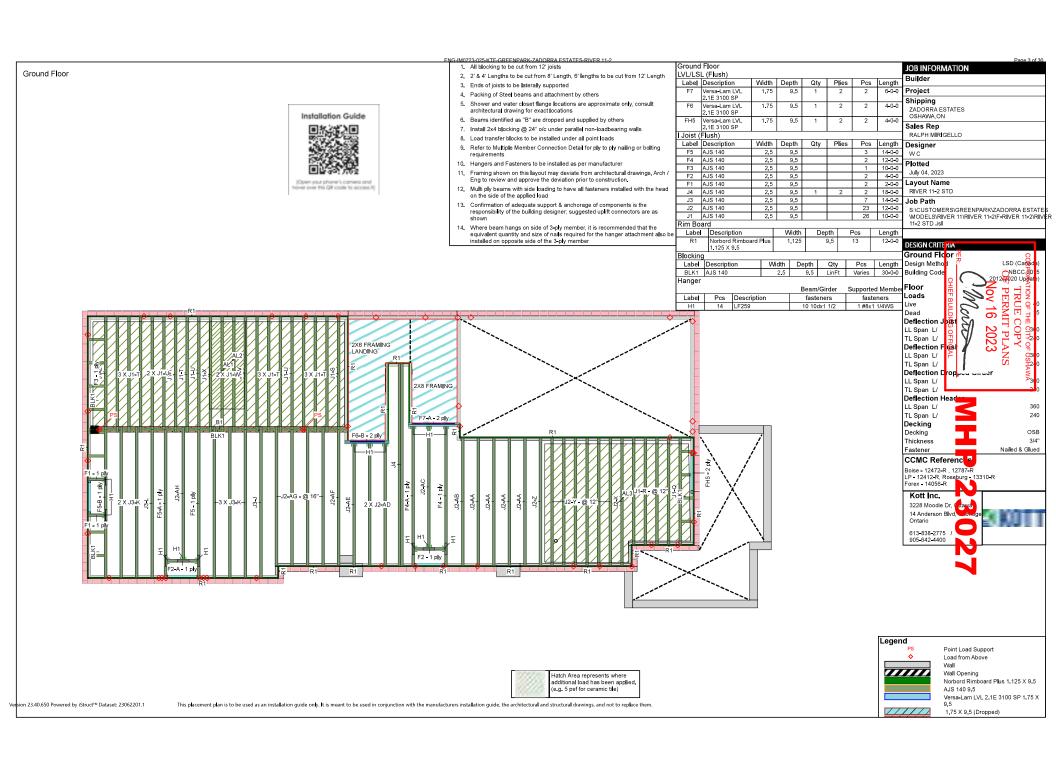


MULTIPLE MEMBER CONNECTIONS FOR UNIFORMLY DISTRIBUTED TOP & SIDE LOADED LVL BEAMS SHOWN ON KOTT LAYOUTS



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







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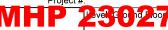
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LANS ZADORRA FETATES OSF

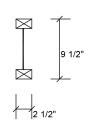
Date: 7/4/2023 W C Input by:

Job Name: RIVER 11-2 STD

Project #







Member Information

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

Floor Live: 40 PSF 15 PSF Dead:

Analysis Results

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	43	16	0	0
2	Vertical	42	16	0	0

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	20 ft-lb	8 1/2"	4095 ft-lb	0.005 (0%)	1.25D+1.5L	L
Unbraced	20 ft-lb	8 1/2"	4095 ft-lb	0.005 (0%)	1.25D+1.5L	L
Shear	69 lb	1 5/8"	1830 l b	0.038 (4%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/184191)	8 1/2"	0.038 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/69072)	8 1/2"	0.038 (L/360)	0.005 (1%)	L	L
TL Defl inch	0.000 (L/50234)	8 1/2"	0.057 (L/240)	0.005 (0%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. R	leact D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	5%	20 / 66	86	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	5%	19 / 63	82	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: 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.

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.

I.MATIJEVIC 100528832

ID Load Type Location Trib Width Live Snow Wind Comments Tie-In 0-0-0 to 1-4-10 1-6-7 Top 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. 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.

- 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 populing.

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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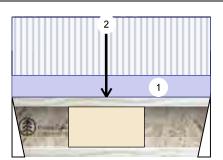
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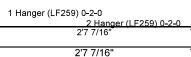
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Job Name: RIVER 11-2 STD

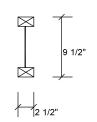
Project #





15 PSF

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 lb (Uplift) Brg Direction Live Dead Snow Wind 72 Vertical 193 0 1 0 2 Vertical 178 67 n 0

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

Bearings and Factored Reactions Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 _ 2.000" Vert 24% 90 / 291 381 L 1.25D+1.5L Hanger 2 -2.000" Vert 22% 83 / 267 350 L 1.25D+1.5L Hanger

Design Notes

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 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.



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	294 lb	0 lb	0 lb	J2

L

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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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ZADORRA ESTATES
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Job Name: RIVER 11-2 STD

Project #

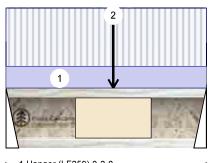
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Vertical



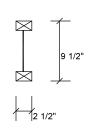
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9.500" -





15 PSF



0

Wind

0

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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 185

Bea	Bearings and Factored Reactions								
2	Vertical	210	79	0	0				

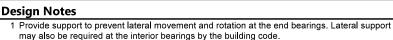
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Analysis Results

Dead:

Analysis	Actual	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 l b	2'6 1/2"	1830 l b	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

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



- 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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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 l b	317 b	0 l b	0 l b	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. Joist 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.

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.





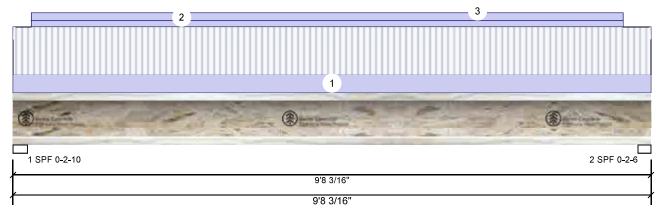
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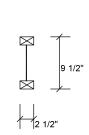
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Job Name: RIVER 11-2 STD

Project #

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Member Information

Туре:	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	149	97	0	0
2	Vertical	148	95	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. Re	eact D/L I b	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

Floor Live:

Dead:

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 l 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.



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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	

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 populing.

This design is valid until 4/17/2026

Manufacturer Info

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

Kott Inc.







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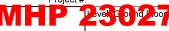
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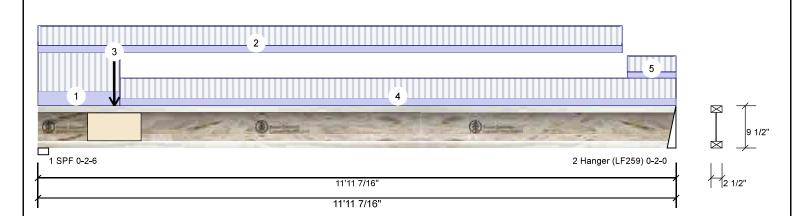
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Job Name: RIVER 11-2 STD

Project #





Member Infor	mation			Unfa	ctored Rea	ctions U	NPA	TTERNED II	b (Up l i	ft)	
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	;	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	547	,	205		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	363	3	136		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Beari	ngs and Fa	actored R	eac	tions			
Dead:	15 PSF			Bear	ing Length	Dir. C	ap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1-S	PF 2.375"	Vert 6	5%	257 / 820	1077	L	1.25D+1.5L
Analysis Resul	ts			2 - Hang	2.000" ger	Vert 4	5%	170 / 544	714	L	1.25D+1.5L

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 lb	1 5/8"	1830 l 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

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.



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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 lb	178 l b	0 lb	0 l b	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

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 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

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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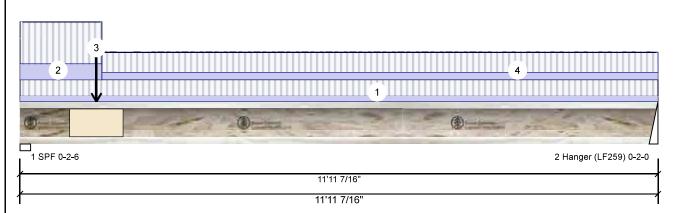
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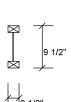
Job Name: RIVER 11-2 STD

Project #

AJS 140

9.500" -





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 lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	504	189	0	0
2	Vertical	312	117	0	0

Analysis Results

Dead:

15 PSF

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 l b	1 5/8"	1830 l 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

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	60%	236 / 756	992	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	39%	146 / 468	614	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"
- 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.



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 11-11-7	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 l b	193 l b	0 lb	0 lb	F2

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.

Tie-In

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

Handling & Installation

1-6-7 to 11-11-7 0-8-2

- 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.

15 PSF

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.

40 PSF

Manufacturer Info

0 PSF

Boise Cascade Wood Products 1111 W. Jefferson St.

0 PSF

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

Kott Inc.

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



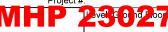


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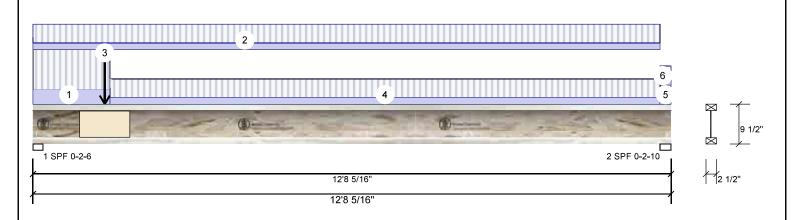
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Job Name: RIVER 11-2 STD

Project #



F5 **AJS 140** 9.500" - PA



Member Inform	nation	Unfactored Reactions UNPATTERNED Ib (Uplift)								
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind	
Plies:	1	Design Method:	LSD	1	Vertical	570	214	0	0	
Moisture Condition:	: Dry	Building Code:	NBCC 2015	2	Vertical	360	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			Bear	ings and Fa	actored Rea	actions			
Dead:	15 PSF			Bea	aring Length	Dir. Cap	. React D/L l b	Total Ld. Case	Ld. Comb.	
				1 - 3	SPF 2.375"	Vert 689	6 268 / 855	1123 L	1.25D+1.5L	
				2 - 1	SPF 2.625"	Vert 42	% 169 / 540	709 L	1.25D+1.5L	

Analysis Results

Analysis	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.



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 1-6-6	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 l b	210 l 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	

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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.

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.

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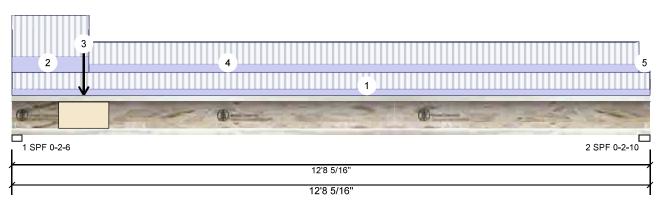
Job Name: RIVER 11-2 STD

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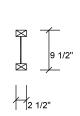


AJS 140

9.500" -



Floor (Residential)



Member Information

Girder

Tyne

Type.	Gildei	Application.	rioor (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		

Application:

Unfactored Reactions UNPATTERNED lb (Uplift)

lRLB	Direction	Live	Dead	Snow	vvina
1	Vertical	542	204	0	0
2	Vertical	357	134	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. Re	eact D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	65%	255 / 813	1068	L	1.25D+1.5L
2 - SPF	2.625"	Vert	41%	168 / 536	704	L	1.25D+1.5L

Analysis Results

Analysis	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 l 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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IE) Lo	ad Type	Location Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie	e-In 0-0-	-0 to 12-8-5 0-6-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie	e-In 0-0	0-0 to 1-6-6 1-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Ро	int	1-5-2	Near Face	70 l b	185 lb	0 l b	0 lb	F2
4	Tie	e-In 1-6-6	6 to 12-5-11 0-9-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie	e-In 12-5-1	11 to 12-8-5 0-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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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. Joist 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

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

www.bc.com CCMC: 12787

Manufacturer Info

Kott Inc.

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





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F5-B

AJS 140

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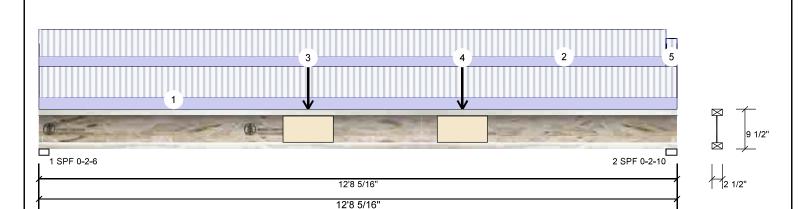
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Job Name: RIVER 11-2 STD

Project #



Member Information Unfactored Reactions UNPATTERNED Ib (Uplift) Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: Design Method: LSD Vertical 402 151 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 409 154 0 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. 189 / 602 1 - SPF 2.375" Vert 48% 791 L 1.25D+1.5L 2 - SPF 2.625" Vert 47% 192 / 614 806 I 1.25D+1.5L

Analysis Results

Analysis	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 l b	12'6 7/16"	1830 lb	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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I D	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 l b	42 lb	0 lb	0 lb	F1
4	Point	8-5-1		Far Face	16 l b	42 lb	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	

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 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.

- 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.

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

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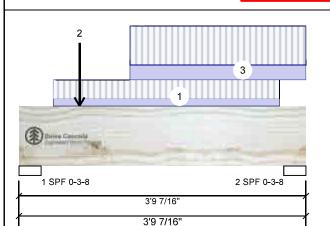
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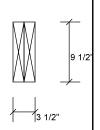
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Job Name: RIVER 11-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SF





1.25D+1.5L

1.25D+1.5L

Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Floor (Residential) Type: Brg Direction Live Dead Snow Wind Plies: 2 Design Method: LSD 222 Vertical 542 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 624 252 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"

2 - SPF 3.500"

Vert

Vert

14%

17%

Analysis Results

Analysis	Actua l	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 l b	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

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.

Self Weight

6 Bottom must have sheathing attached or be continuously braced.

	eral slenderness ratio based on								
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 lb	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	

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-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

9 PLF

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

Manufacturer Info

www.bc.com CCMC: 12472



277 / 814

315 / 936

1091 L

1251 L

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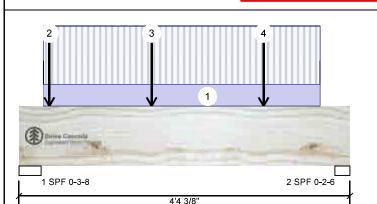
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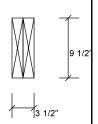
Job Name: RIVER 11-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SF



4'4 3/8'



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 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" Vert 17% 330 / 972 1302 L 1.25D+1.5L

2 - SPF 2.375"

Vert

18%

244 / 701

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USED IN THE DESIGN OF THIS COMPONENT.

944 L

Analysis Results

Ana l 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 l 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



- 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 l b	312 l b	0 lb	0 lb	F4
3	Point	1-9-0		Near Face	110 lb	294 lb	0 lb	0 l b	J2
4	Point	3-2-12		Near Face	136 lb	363 lb	0 lb	0 l b	F4
	Self Weight				9 PLF				

Notes

Notes

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

Handling & Installation

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

Kott Inc.

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











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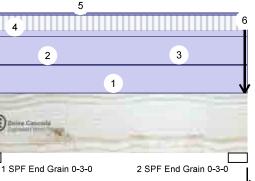
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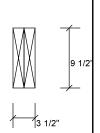
Project #

Versa-Lam LVL 2.1E 3100 SP





3'6' 3'6'



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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	vvina
1	Vertical	40	183	0	0
2	Vertical	126	781	0	0

Analysis Results

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 l b	2'5 1/2"	6873 l 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	L
TL Defl inch	0.001 (L/65539)	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%	229 / 60	289	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	16%	976 / 189	1165	L	1.25D+1.5L

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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

- 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

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



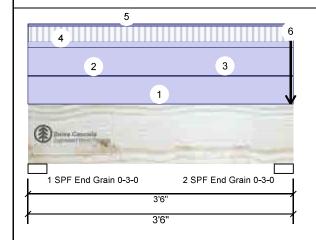
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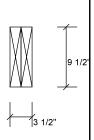
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Versa-Lam LVL 2.1E 3100 SP FH5





Continued	from	page 1	
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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	598 lb	86 lb	0 lb	0 lb	Header Column Header Column
	Rearing Length	0_3_8							

Bearing Length

Self Weight 9 PLF



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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

This design is valid until 4/17/2026

Manufacturer Info

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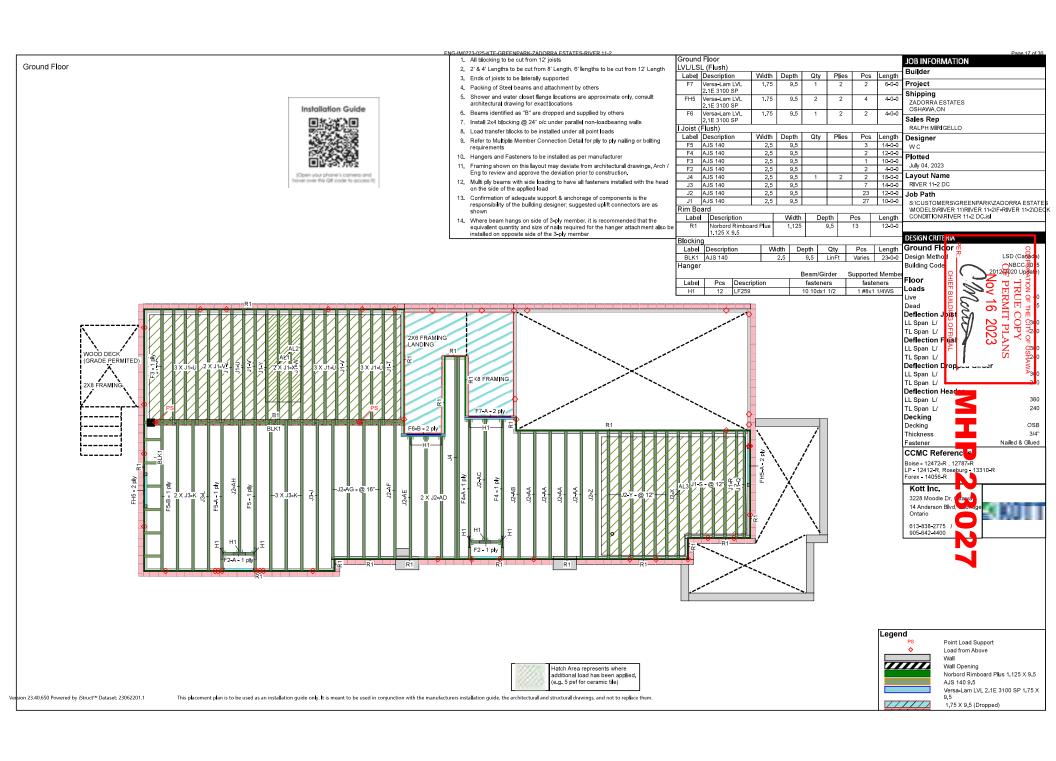
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CSD



Brg

1

2

Grain

End Grain

2 - SPF 3.000"

Direction

Vertical

Vertical



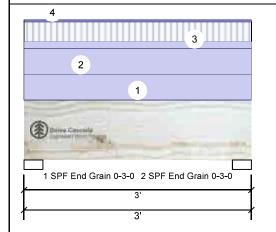
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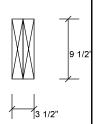
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Job Name: RIVER 11-2 DC

Project #

Versa-Lam LVL 2.1E 3100 SP





Wind

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

0

0

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

Bearings	s and Fa	actore	d Read	tions
Bearing	Length	Dir.	Cap.	React D/L Ib
1 - SPF	3.000"	Vert	3%	200 / 70

Vert

Unfactored Reactions UNPATTERNED Ib (Uplift)

Dead

160

160

200 / 70

Snow

Total Ld. Case

269 L

269 L

0

n

Live

47

47

Analysis Res	sults		
Analysis	Actual	Location	Allowed
Moment	155 ft-lb	1'6"	16950 ft-I
Unbraced	155 ft-lb	1'6"	16950 ft-I
Shear	184 lb	1' 1/2"	7719 l b
Perm Defl in.	0.000 (L/127609)	1'6"	0.088 (L/3

Member Information

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 lb	1' 1/2"	7719 l 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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7 Edicial Sichae	Thess ratio based on rai	i scolloit wiatit.							
I 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	

Comb.

Case

Capacity

Continued on page 2...

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

Handling & Installation

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

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





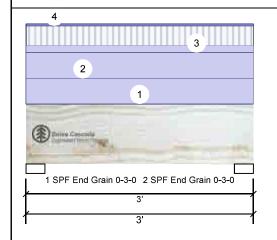
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Versa-Lam LVL 2.1E 3100 SP



.Continued from page 1

4

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

> Part. Uniform 0-0-0 to 3-0-0 Near Face 3 PLF 0 PLF 0 PLF 0 PLF Rim Board Self Weight

Self Weight 9 PLF



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Handling & Installation

Handling & Installation

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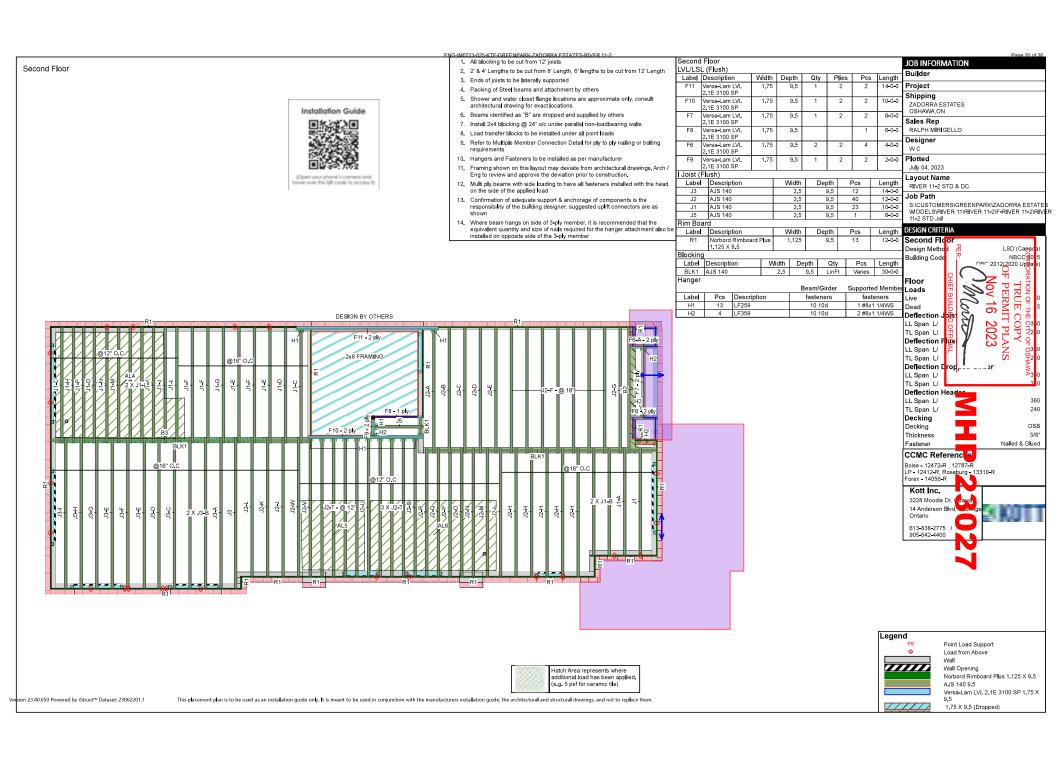
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CSD





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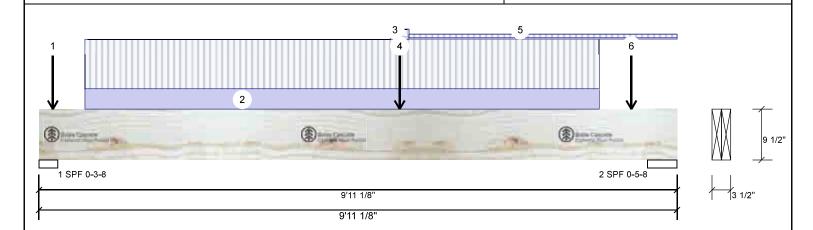
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Project #



Member Inforn	nation			Unfactored Reactions UNPATTERNED lb (Uplift)							
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind		
Plies:	2	Design Method:	LSD	1	Vertical	1075	484	0	0		
Moisture Condition:	Dry	Building Code:		2	2 Vertical	1214	541	0	0		
Deflection LL:	ection 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			Bearings and Factored Reactions							
Dead:	15 PSF			Bea	aring Length	Dir. Ca	p. React D/L l b	Total Ld. Case	Ld. Comb.		
				1 - 3	SPF 3.500"	Vert 29	% 605 / 1613	2218 L	1.25D+1.5L		
				2 - 3	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 l b	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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/ Edicial deliacifices falls based of fall section within										
	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Point	0-2-9		Near Face	30 lb	74 l b	0 l b	0 b	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 l b	35 l b	0 l b	0 l b	F9
	5	Tie-In	5-9-1 to 9-11-2	0-5-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

Continued on page 2...

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

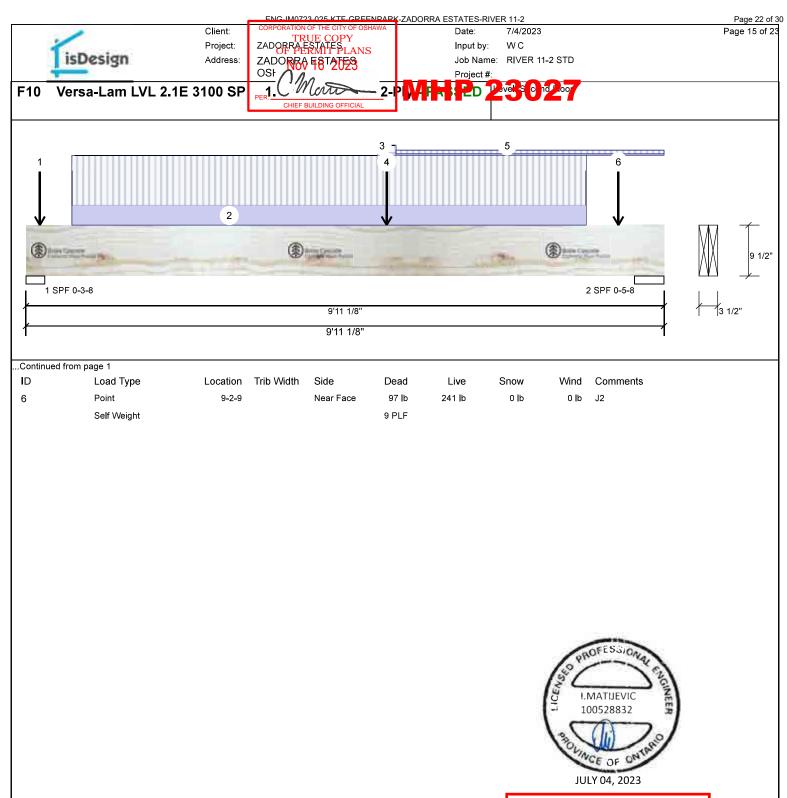
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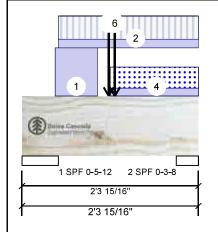
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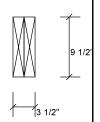
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Job Name: RIVER 11-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SP





Member Information Unfactored Reactions UNPATTERNED lb (Uplift) 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 Analysis Results Analysis Location Allowed Capacity

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	71	304	119	0
2	Vertical	73	230	115	0

Bearings and Factored Reactions											
Bearing	Length	Dir.	Сар.	React D/L I b	Total	Ld. Case	Ld. Comb.				
1 - SPF	5.750"	Vert	6%	380 / 226	606	L	1.25D+1.5L +S				
2 - SPF	3.500"	Vert	8%	288 / 224	512	L	1.25D+1.5L +S				

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	415 ft-lb	1'1 3/4"	20433 ft-lb	0.020 (2%)	1.25D+1.5S +L	L
Unbraced	415 ft-lb	1'1 3/4"	20433 ft-lb	0.020 (2%)	1.25D+1.5S +L	L
Shear	515 lb	1'3 1/4"	9305 lb	0.055 (6%)	1.25D+1.5S +L	L
Perm Defl in.	0.000 (L/93602)	1'1 3/4"	0.056 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch	0.000 (L/166856)	1'1 13/16"	0.056 (L/360)	0.002 (0%)	S+0.5L	L
TL Defl inch	0.000 (L/59964)	1'1 3/4"	0.084 (L/240)	0.004 (0%)	D+S+0.5L	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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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

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



This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding



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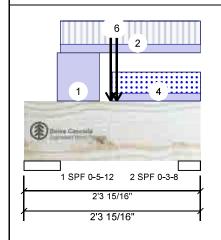
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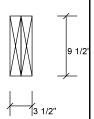
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Job Name: RIVER 11-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SP





I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-5-4 to 0-11-15		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Tie-In	0-5-12 to 2-3-15	0-11-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-1-12		Far Face	407 l b	73 l b	193 l b	0 l b	F7
4	Part. Uniform	1-1-15 to 2-3-15		Тор	13 PLF	0 PLF	35 PLF	0 PLF	
5	Point	1-2-11		Тор	7 lb	0 l b	0 lb	0 l b	Wall Self Weight
	Bearing Length	0-5-8							
6	Point	1-2-11		Тор	12 l b	0 l b	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
	Self Weight				9 PLF				



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Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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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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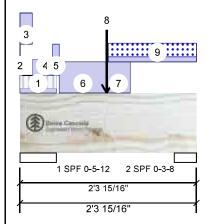
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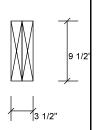
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Job Name: RIVER 11-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SF





Member I	nformation
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Type

Typo.	Ciraci
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
General Load	

- II

40 PSF Floor Live: 15 PSF Dead:

Girder Application: Design Method:

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

Floor (Residential)

LSD

Load Sharing: Not Checked Deck:

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	57	323	119	0
2	Vertical	32	216	115	0
1					

Bearings and Factored Reactions

l	Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
	1 - SPF	5.750"	Vert	6%	403 / 205	608	L	1.25D+1.5L +S
l	2 - SPF	3.500"	Vert	7%	270 / 204	474	L	1.25D+1.5S +L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	366 ft-lb	1'1 3/4"	18343 ft-lb	0.020 (2%)	1.25D+1.5L +S	L
Unbraced	366 ft-lb	1'1 3/4"	18343 ft-lb	0.020 (2%)	1.25D+1.5L +S	L
Shear	452 lb	1'3 1/4"	8353 lb	0.054 (5%)	1.25D+1.5L +S	L
Perm Defl in.	0.000 (L/96724)	1'1 3/4"	0.056 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch	0.000 (L/179643)	1'1 3/4"	0.056 (L/360)	0.002 (0%)	S+0.5L	L
TL Defl inch	0.000 (L/62872)	1'1 3/4"	0.084 (L/240)	0.004 (0%)	D+S+0.5L	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.
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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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Kott Inc.

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





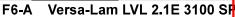


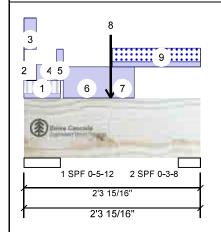
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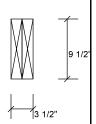
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Job Name: RIVER 11-2 STD

Project #







I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-5-12	0-9-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 0-0-0		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-0-0 to 0-1-15		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-1-15 to 0-5-3		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
5	Part. Uniform	0-5-3 to 0-6-3		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Part. Uniform	0-6-3 to 1-1-12		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Part. Uniform	1-1-12 to 1-5-7		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Point	1-1-12		Near Face	390 lb	73 l b	193 l b	0 lb	F7
9	Part. Uniform	1-1-15 to 2-3-15		Тор	13 PLF	0 PLF	35 PLF	0 PLF	
	Self Weight				9 PLF				



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Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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

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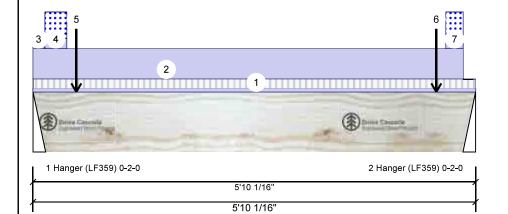
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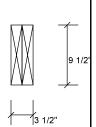
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Job Name: RIVER 11-2 STD

Project #







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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		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	73	407	193	0
2	Vertical	73 390		193	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	699 ft-lb	2'10 15/16"	15093 ft-lb	0.046 (5%)	1.25D+1.5L	L
Unbraced	699 ft-lb	2'10 15/16"	15093 ft-lb	0.046 (5%)	1.25D+1.5L	L
Shear	392 lb	11 1/2"	6873 lb	0.057 (6%)	1.25D+1.5L	L
Perm Defl in.	0.005 (L/13429)	2'11"	0.188 (L/360)	0.027 (3%)	D	Uniform
LL Defl inch	0.002 (L/41045)	2'10 15/16"	0.188 (L/360)	0.009 (1%)	L+0.5S	L
TL Defl inch	0.007 (L/10118)	2'11"	0.282 (L/240)	0.024 (2%)	D+L+0.5S	L

Bearings and Factored Reactions

Bearing L	.ength	Dir.	Cap. Re	act D/L I b	Total	Ld. Case	Ld. Comb.
1 - 2 Hanger	.000"	Vert	13%	509 / 303	812	L	1.25D+1.5L +S
2 - 2 Hanger	2.000"	Vert	13%	487 / 303	790	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 2.
- 2 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 2.
- 3 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.
- 4 Fill all hanger nailing holes.
- 5 Left Header: DF, Thickness: 3 1/2"
- 6 Right Header: DF, Thickness: 3 1/2"
- 7 Girders are designed to be supported on the bottom edge only.
- 8 Multiple plies must be fastened together as per manufacturer's details.
- 9 Top loads must be supported equally by all plies.
- 10 Top must be continuously laterally braced.
- 11 Bottom must be laterally braced at bearings.
- 12 Lateral slenderness ratio based on full section width.



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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

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

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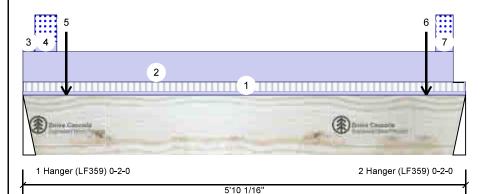
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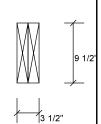








5'10 1/16'



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 5-10-1	0-7-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 5-8-2		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-0-0 to 0-1-12		Тор	31 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-1-14 to 0-5-6		Тор	27 PLF	0 PLF	70 PLF	0 PLF	
5	Point	0-6-14		Тор	107 l b	0 l b	175 l b	0 l b	Header Column
	Bearing Length	0-5-8							
6	Point	5-3-14		Тор	107 l b	0 l b	175 l b	0 l b	Header Column
	Bearing Length	0-5-8							
7	Part. Uniform	5-5-6 to 5-8-2		Тор	27 PLF	0 PLF	70 PLF	0 PLF	
	Self Weight				9 PLF				



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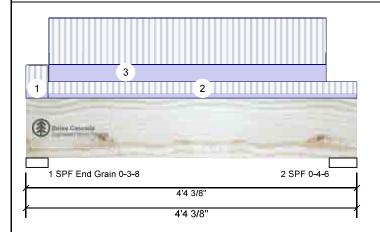
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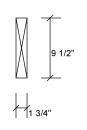
Job Name: RIVER 11-2 STD

Versa-Lam LVL 2.1E 3100 S



Project #





Wind

Member Information 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 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF 15 PSF Dead:

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

Dead

Unfactored Reactions UNPATTERNED Ib (Uplift)

Live

Analysis Results

Analysis	Actual	Location	Allowed	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
Shear	187 l b	3'2 1/2"	5287 lb	0.035 (4%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/64611)	2'1 13/16"	0.128 (L/360)	0.006 (1%)	D	Uniform
LL Defl inch	0.002 (L/27778)	2'1 13/16"	0.128 (L/360)	0.013 (1%)	L	L
TL Defl inch	0.002 (L/19426)	2'1 13/16"	0.192 (L/240)	0.012 (1%)	D+L	L

Bearings and Factored Reactions

Brg Direction

Bearing	Length	Dir.	Cap. Rea	act D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	5%	90 / 248	338	L	1.25D+1.5L
2 - SPF	4.375"	Vert	7%	88 / 239	327	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 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.

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	TEC ON THIC	DACE AND ON

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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

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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www.bc.com CCMC: 12472

Kott Inc.





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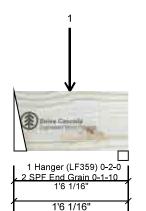
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Date: 7/4/2023 WC Input by:

Job Name: RIVER 11-2 STD

Project #

Versa-Lam LVL 2.1E 3100 SP



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Member Information

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

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

Ana l ysis	Actual	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 lb	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 (L/595409)	8 7/8"	0.067 (L/240)	0.000 (0%)	D+L	L

Bearings and Factored Reactions

Bea	ring Length	Dir.	Cap. I	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - Han	2.000" ger	Vert	1%	25 / 53	78	L	1.25D+1.5L
2 - S End Gra		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.



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	Point	0-8-14	Near Face	25 lb	67 l b	0 l b	0 lb	J5
	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

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

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Manufacturer Info

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