

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.

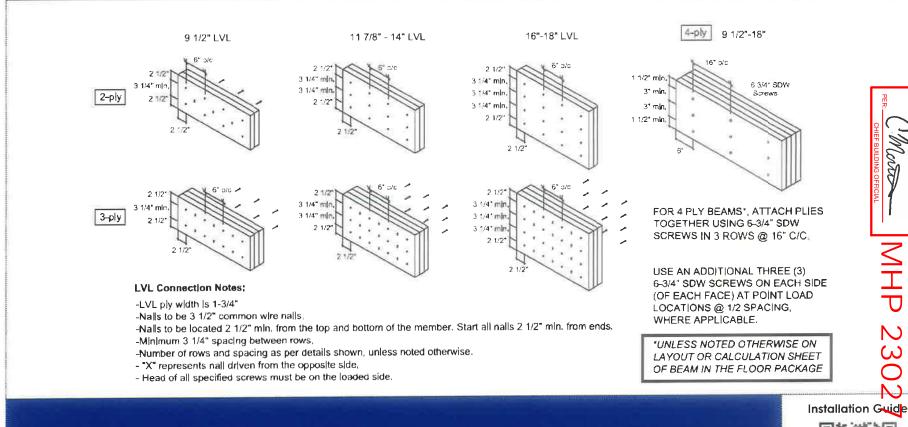
HANDLING AND INSTALLATION

- 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.

KOTT

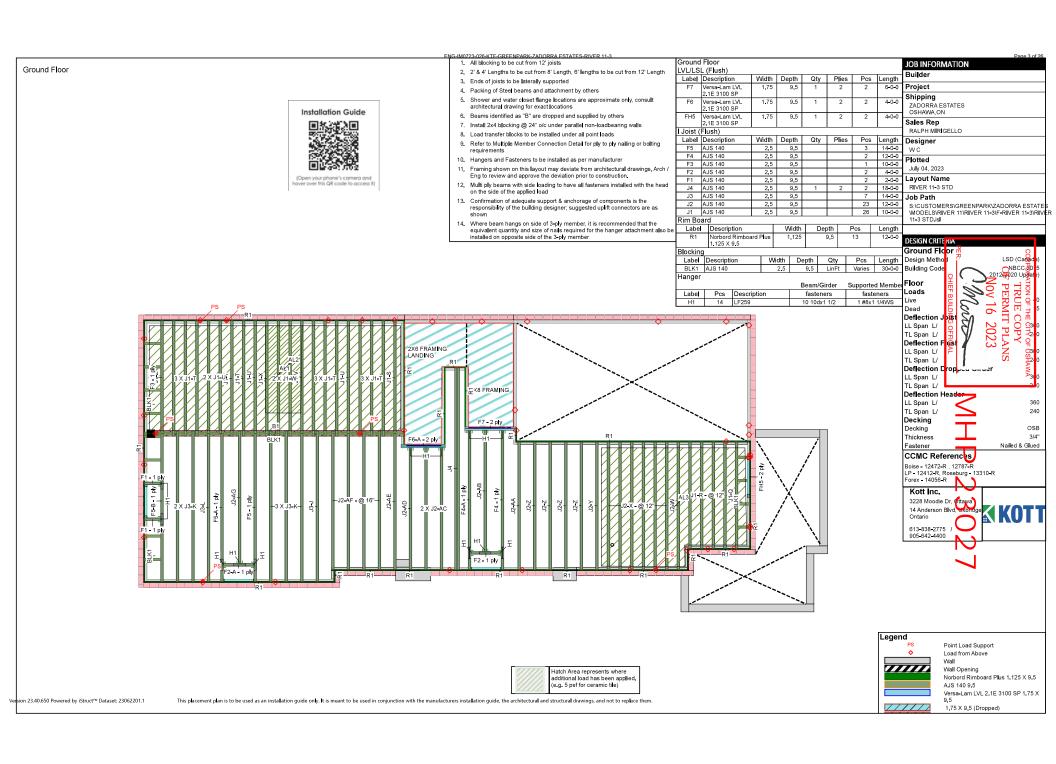
MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS

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





AJS 140

F1

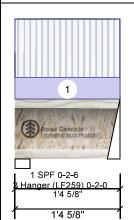
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ZADORRAESTATES LANS ZADORRA FSTATES OSŁ

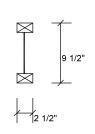
Date: 7/4/2023 W C Input by:

Job Name: RIVER 11-3 STD

Project #

Level Ground Floor





Page 4 of 26 Page 1 of 19

Member Information

| Type: | Girder |
|---------------------|-------------|
| Plies: | 1 |
| Moisture Condition: | Dry |
| Deflection LL: | 360 |
| Deflection TL: | 240 |
| Importance: | Normal - II |
| 0 | |

General Load Floor Live: 40 PSF 15 PSF

Application: Floor (Residential) Design Method: LSD

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

Load Sharing:

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

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 43 | 16 | 0 | 0 |
| 2 | Vertical | 42 | 16 | 0 | 0 |

Analysis Results

Dead:

| 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 lb | 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 | eact 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 |

I.MATIJEVIC 100528832

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.

| 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. |

JULY 04, 2023

| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|-----------|-----------------|------------|------|--------|--------|-------|-------|----------|
| 4 | Tio In | 0.0.0 to 1.4.10 | 167 | Ton | 1E DOE | 40 DCE | 0 DCE | A DCE | |

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.





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

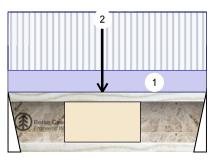
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Job Name: RIVER 11-3 STD

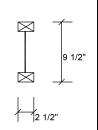
Project #

Level Ground Floor

F2 **AJS 140**



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



Member Information Type:

Application: Floor (Residential) 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

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 193 | 72 | 0 | 0 |
| 2 | Vertical | 178 | 67 | 0 | 0 |
| | | | | | |

Analysis Results

Dead:

| Analysis | Actua l | 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 l b | 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 |

| 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 l b | 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 |

Bearings and Factored Reactions

| _ cag. | J alla le | | u | 0.15 | | | |
|---------------|-----------|------|--------|---------------------|-------|----------|------------|
| Bearing | Length | Dir. | Cap. R | eact D/L I b | Total | Ld. Case | Ld. Comb. |
| 1 - Hanger | 2.000" | Vert | 24% | 90 / 291 | 381 | L | 1.25D+1.5L |
| 2 - Hanger | 2.000" | Vert | 22% | 83 / 267 | 350 | L | 1.25D+1.5L |



- 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 | Comme | nts |
|----|-----------|----------------|------------|----------|----------------|--------|--------------|--------------|-------|-----|
| 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 l b | 294 lb | 0 l b | 0 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. 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

Manufacturer Info

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

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

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



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

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

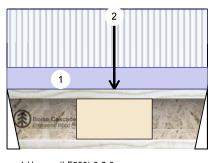
Job Name: RIVER 11-3 STD

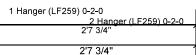
Project #

Level Ground Floor

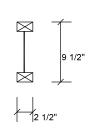
AJS 140

9.500" -





15 PSF



0

0

Wind

0

0

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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 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 70 Vertical 185 1

210

Bearings and Factored Reactions Bearing Le 1 -2.0 Hanger

2

2 -

Hanger

Vertical

| Length | Dir. | Cap. R | React D/L I b | Total | Ld. Case | Ld. Comb. |
|--------|------|--------|----------------------|-------|----------|------------|
| 2.000" | Vert | 23% | 87 / 278 | 365 | L | 1.25D+1.5L |
| 2.000" | Vert | 26% | 98 / 315 | 413 | L | 1.25D+1.5L |

79

Analysis Results

Dead:

| Analysis | Actua l | 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 |

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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| 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 | 317 l 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. 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.





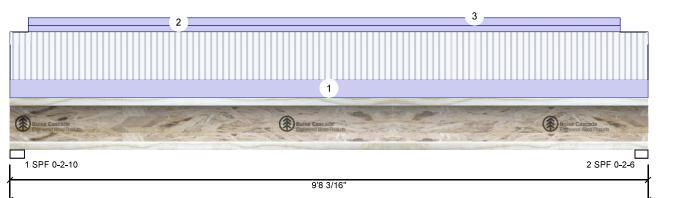
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ZADORRA ESTATES
LANS ZADORRA FSTATES OSF

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

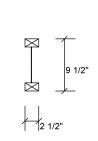
Job Name: RIVER 11-3 STD

Project #

Level Ground Floor



9'8 3/16'



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| Member II | nformation |
|-----------|------------|
| Туре: | Girder |
| Plies: | 1 |

F3

AJS 140

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

Importance: General Load

Floor Live: 40 PSF Dead: 15 PSF Application: Floor (Residential)

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

OBC 2012(2020 Update)

Load Sharing: 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 | act 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

| 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 | |

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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

Manufacturer Info

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Kott Inc.

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





AJS 140

F4

Client: Project: Address:

9.500" - PA

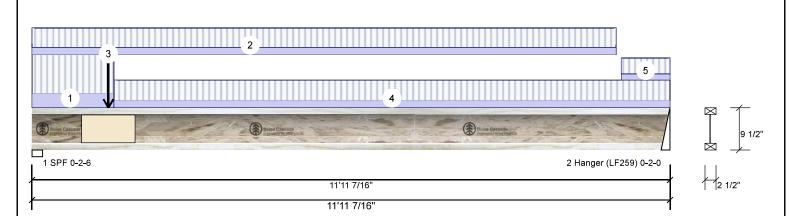
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LANS ZADORRA FSTATES OSF

WC Input by:

Job Name: RIVER 11-3 STD

Project #

Level Ground Floor



| Member Infori | mation | | | Unfa | ctored Rea | actions L | JNP | ATTERNED I I | o (Up l i | ift) | |
|--------------------|-------------|----------------|-----------------------|-------|------------|-----------|------|---------------------|------------------|----------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | Liv | /e | Dead | | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | 54 | 17 | 205 | | 0 | 0 |
| Moisture Condition | ı: Dry | Building Code: | NBCC 2015 | 2 | Vertical | 36 | 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 F | actored | Read | ctions | | | |
| Dead: | 15 PSF | | | Bear | ing Length | Dir. | Сар. | React D/L Ib | Total | Ld. Case | Ld. Comb. |
| | | | | 1 - S | PF 2.375" | Vert | 65% | 257 / 820 | 1077 | L | 1.25D+1.5L |
| | | | | 2 - | 2.000" | Vert | 45% | 170 / 544 | 714 | L | 1.25D+1.5L |
| Analysis Result | ts | | | Hang | ger | | | | | | |

| Ana l ysis | 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.



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.

JULY 04, 2023

| 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 l b | 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

 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.







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LANS ZADORRA FSTATES OSF

Date: W C Input by:

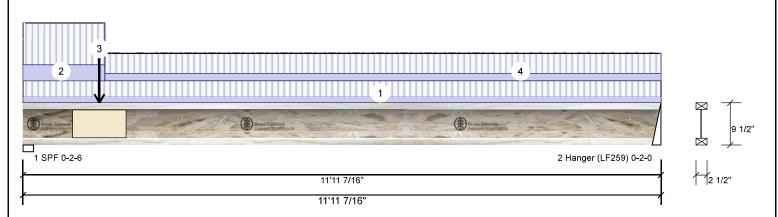
Job Name: RIVER 11-3 STD

Project #

AJS 140

9.500" -





| Member Inforn | nation | | | Unfa | actored | l Rea | ctions | UNP | ATTERNE | D lb (Up | lift) | |
|---------------------------------------|---------------|---------------------|------------------------------------|-------|-----------|-------|---------|--------|-----------|-----------------|-------|-----|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | on | L | ive | Dea | ıd | Snow | / |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | | | 504 | 18 | 39 | O |) |
| Moisture Condition: Deflection LL: | Dry 360 | Building Code: | NBCC 2015 OBC 2012(2020 Update) | 2 | Vertical | | | 312 | 1′ | 17 | O |) |
| Deflection TL: | 240 | Load Sharing: | No | | | | | | | | | |
| Importance: General Load | Normal - II | Deck: Vibration: | Not Checked Not Checked | | | | | | | | | |
| Floor Live: | 40 PSF | | | Bear | rings a | nd Fa | actorec | l Read | tions | | | |
| Dead: | 15 PSF | | | Bea | aring Le | ngth | Dir. | Cap. | React D/L | l b Tota | Ld.C | ase |
| | | | | 1 - 3 | SPF 2.3 | 375" | Vert | 60% | 236 / 75 | 56 992 | ? L | |
| Analysis Result | lysis Results | | | | | 000" | Vert | 39% | 146 / 46 | 614 | l L | |

Analysis Results

| 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 lb | 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 |

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.

| I D | 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 l b | 0 l 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 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.

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

Wind

Ld. Comb. 1.25D+1.5L 1.25D+1.5L

0

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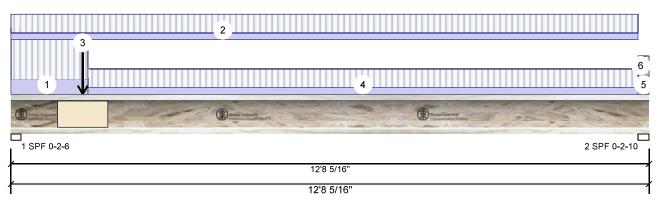
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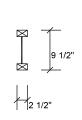
Job Name: RIVER 11-3 STD

Project #

Level Ground Floor

AJS 140





| Member | Information |
|--------|-------------|
| Type: | Girder |

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

General Load Floor Live: 40 PSF 15 PSF Dead:

Application: Floor (Residential)

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

Load Sharing:

Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 570 | 214 | 0 | 0 |
| 2 | Vertical | 360 | 135 | 0 | 0 |
| 1 | | | | | |

Bearings and Factored Reactions

| Bearing Length | Dir. | Cap. | React D/L I b | Total | Ld. Case | Ld. Comb. |
|----------------|------|------|----------------------|-------|----------|------------|
| 1 - SPF 2.375" | Vert | 68% | 268 / 855 | 1123 | L | 1.25D+1.5L |
| 2 - 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.

Load Type

Tie-In

Tie-In

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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Wind Commonts

| טו | Loau Type | Location | THE WIGHT | Side | Deau | LIVE | SHOW | vviilu | 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 lb | 0 l b | 0 l b | F2 |
| 4 | Tie-In | 1-6-6 to 12-5-11 | 0-8-0 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |

Top

Тор

Notes

6

ID

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

12-5-11 to 12-8-5 0-6-0

12-5-11 to 12-8-5 0-6-0

- 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.

Location Trib \\/idth

Dood

15 PSF

15 PSF

Livo

40 PSF

40 PSF

- 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

0 PSF

0 PSF

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

0 PSF

0 PSF

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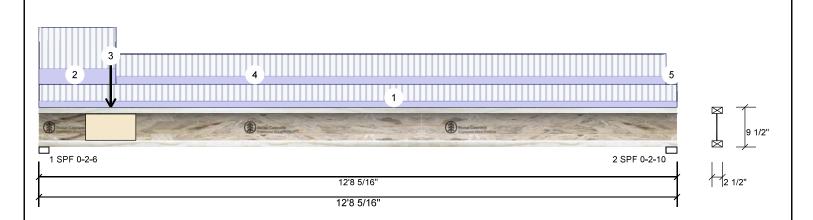
Date: 7/4/2023 W C Input by:

Job Name: RIVER 11-3 STD

Project #

AJS 140 9.500" -F5-A





| Member Inforn | nation | | | Unfa | actored Rea | ctions UN | IPATTERNED | lb (Uplift) | |
|---------------------|-------------|----------------|-----------------------|-------|--------------|-----------|-------------------------|----------------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | Live | Dead | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | 542 | 204 | 0 | 0 |
| Moisture Condition: | : Dry | Building Code: | NBCC 2015 | 2 | Vertical | 357 | 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 | | | Bear | ings and Fa | actored R | eactions | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. Ca | p. React D/L l b | Total Ld. Case | Ld. Comb. |
| | | | | 1 - 3 | SPF 2.375" | Vert 6 | 5% 255 / 813 | 1068 L | 1.25D+1.5L |
| | | | | 2 - 1 | SPF 2.625" | Vert 4 | 1% 168 / 536 | 704 L | 1.25D+1.5L |

Analysis Results

| Ana l 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 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.



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

| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|-----------|-------------------|------------|-----------|---------------|----------------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 12-8-5 | 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 l b | 185 l b | 0 lb | 0 lb | 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 | |

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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.





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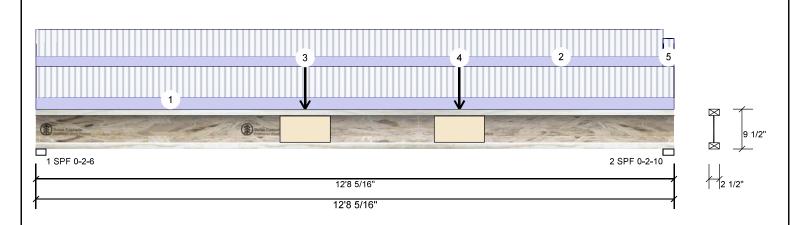
Date: WC Input by:

Job Name: RIVER 11-3 STD

Project #

AJS 140 9.500" -F5-B





| Member Info | mation | | | Unfa | actored Rea | actions | UNP | ATTERNED II | b (Uplift) | |
|--------------------|-------------|----------------|-----------------------|------|--------------|---------|--------|--------------|----------------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | L | ive | Dead | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | | 402 | 151 | 0 | 0 |
| Moisture Condition | n: Dry | Building Code: | NBCC 2015 | 2 | Vertical | | 409 | 154 | 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 | l Read | ctions | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. | Cap. | React D/L Ib | 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

| 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.



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 Bottom Hango | made be fatorally bit | acca at a maximum | 01 0 1 17 1 0.0. | | | | | | |
|----------------|-----------------------|-------------------|------------------|----------|---------------|--------|-------|-------|----------|
| 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 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 | |

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. Julist flanges must not be out or drilled

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

 3. Damaged Juoists must not be used

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

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

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

Kott Inc.





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Date: 7/4/2023 WС Input by:

Job Name: RIVER 11-3 STD

Project #

Versa-Lam LVL 2.1E 3100 SF



Floor (Residential)

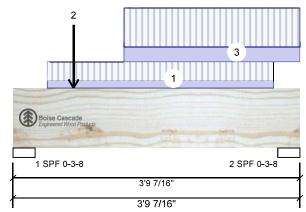
OBC 2012(2020 Update)

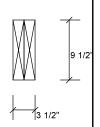
NBCC 2015

Not Checked

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Page 13 of 26

Page 10 of 19

Member Information

| Type: | Girder |
|---------------------|------------|
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 360 |
| Deflection TL: | 240 |
| Importance: | Normal - I |
| General Load | |

Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 542 | 222 | 0 | 0 |
| 2 | Vertical | 624 | 252 | 0 | 0 |
| 1 | | | | | |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. Re | eact D/L I b | Total | Ld. Case | Ld. Comb. |
|---------|--------|------|---------|---------------------|-------|----------|------------|
| 1 - SPF | 3.500" | Vert | 14% | 277 / 814 | 1091 | L | 1.25D+1.5L |
| 2 - SPF | 3.500" | Vert | 17% | 315 / 936 | 1251 | L | 1.25D+1.5L |

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 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 |

Application:

Design Method:

Building Code:

Load Sharing: Deck:

Vibration:

Design Notes

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



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

| - 1 | Lateral sienderness ratio base | a off full section width. |
|-----|--------------------------------|---------------------------|
| ΙΓ | Load Type | Location |

| 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 l 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

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

Kott Inc.

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



Level Ground Floor



Client: Project: Address:

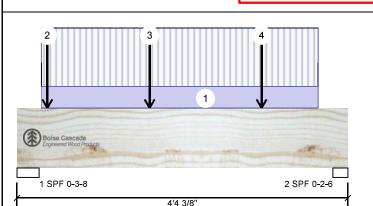
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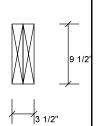
Job Name: RIVER 11-3 STD

Project #

Versa-Lam LVL 2.1E 3100 SP



4'4 3/8'



Member Information

| Type: | Girder |
|---------------------|-------------|
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 360 |
| Deflection TL: | 240 |
| Importance: | Normal - II |
| General Load | |
| Floor Live: | 40 PSF |

40 PSF 15 PSF Application: Floor (Residential)

LSD

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

Load Sharing:

Design Method:

Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 648 | 264 | 0 | 0 |
| 2 | Vertical | 467 | 195 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. Re | act D/L I b | 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 | 944 | L | 1.25D+1.5L |

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USED IN THE DESIGN OF THIS COMPONENT.

Analysis Results

Dead:

| Analysis | 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 l b | 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 |

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

| 7 Edicial Sichachiess fatio based on fall section with. | | | | | | | | | | |
|---|------------|---------------|-------------------|------------|-----------|----------------|--------|--------------|-------|----------|
| | I D | 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 lb | 0 l b | 0 lb | F4 |
| | 3 | Point | 1-9-0 | | Near Face | 110 l b | 294 lb | 0 l b | 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

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Boise Cascade Wood Products

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

Manufacturer Info

Kott Inc.

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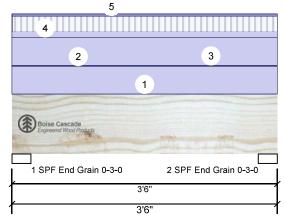
Job Name: RIVER 11-3 STD

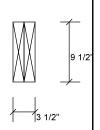
Project #

Versa-Lam LVL 2.1E 3100 SP



B**E**₽D





| 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 | 40 | 183 | 0 | 0 |
| 2 | Vertical | 40 | 183 | 0 | 0 |
| | | | | | |

Analysis Results

Member Information

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|---------------------|----------|-----------------|------------|------------|---------|
| Moment | 202 ft-lb | 1'9" | 15557 ft-lb | 0.013 (1%) | 1.25D+1.5L | L |
| Unbraced | 202 ft-lb | 1'9" | 15557 ft-lb | 0.013 (1%) | 1.25D+1.5L | L |
| Shear | 207 l b | 2'5 1/2" | 7084 l b | 0.029 (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 I b | 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 | 4% | 229 / 60 | 289 | 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.

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.

JULY 04, 2023

| I D | 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...

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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

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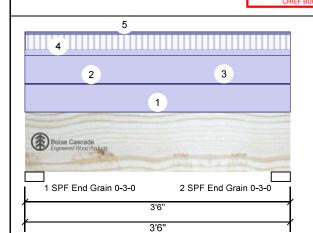






Versa-Lam LVL 2.1E 3100 SP FH5

Self Weight





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Page 13 of 19

| Continued from page 1 | | | | | | | | | | |
|-----------------------|---------------|----------------|------------|-----------|-------|--------|-------|-------|-----------------------|--|
| 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 | |

9 PLF



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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-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

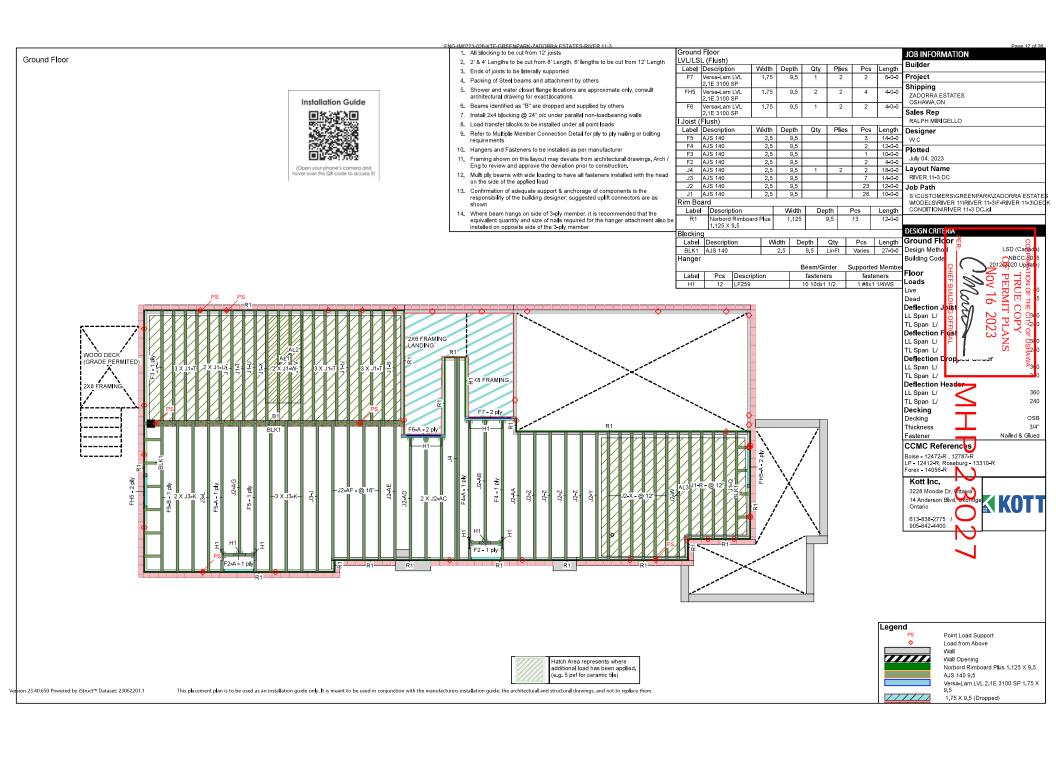
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7/4/2023 Date: W C Input by:

Job Name: RIVER 11-3 DC

Project #

Versa-Lam LVL 2.1E 3100 SP



Level Ground Floor

Brg

1

2

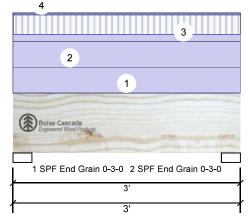
Direction

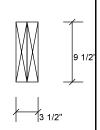
Vertical

Vertical

2 - SPF 3.000"

End Grain Vert





Wind

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

| Bearings | s and Fa | actore | d Reacti | ions | | | |
|-------------------------|----------|--------|----------|----------------------|-------|----------|------------|
| Bearing | Length | Dir. | Cap. R | leact D/L I b | Total | Ld. Case | Ld. Comb. |
| 1 - SPF End Grain | 3.000" | Vert | 3% | 200 / 70 | 269 | L | 1.25D+1.5L |

200 / 70

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I.MATIJEVIC 100528832

269 L

Dead

160

160

Snow

0

n

Unfactored Reactions UNPATTERNED lb (Uplift)

Live

47

47

Analysis Results

Member Information

| Analysis | Actual | 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 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.

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

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JULY 04, 2023

| п | | | | | | | | | | |
|---|------------|---------------|----------------|------------|-----------|--------|--------|-------|-------|------------------|
| I | 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 | |

Continued on page 2...

Notes

Notes

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

Handling & Installation

- 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

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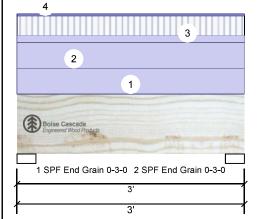
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This design is valid until 4/17/2026

Manufacturer Info





.Continued from page 1

ID Location Trib Width Side Load Type Live Wind Comments 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 4

> Self Weight 9 PLF

> > PROFESSIONA I.MATIJEVIC 100528832 VINCE OF JULY 04, 2023

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Notes

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Handling & Installation

Handling & Installation

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6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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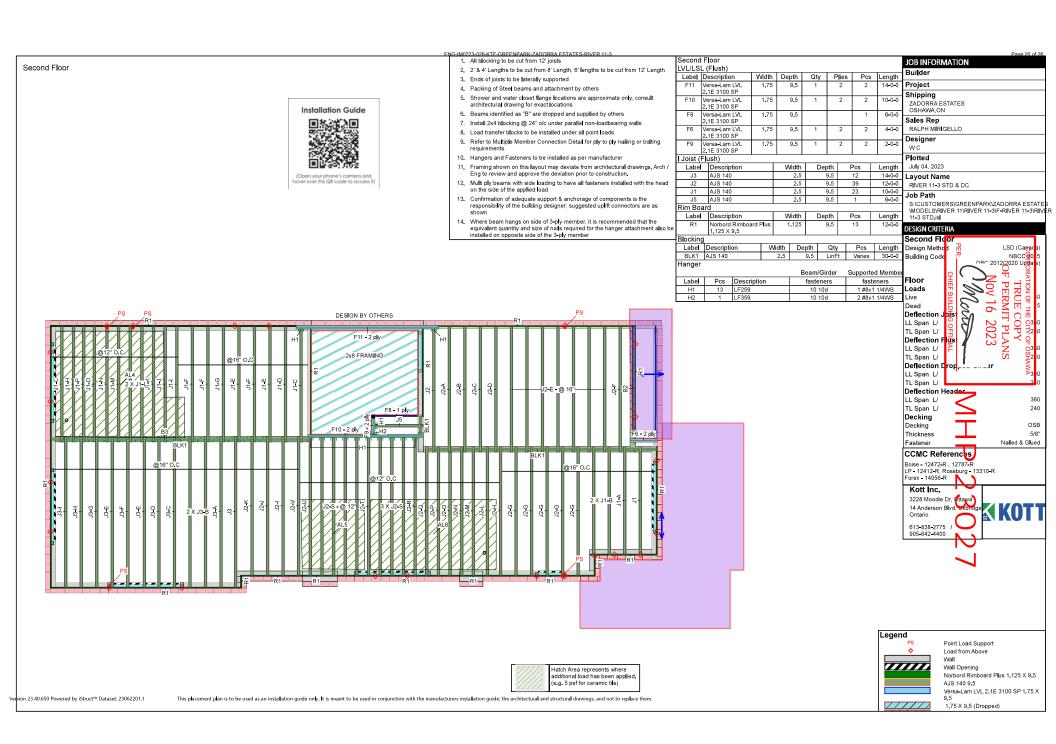
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This design is valid until 4/17/2026



Kott Inc.





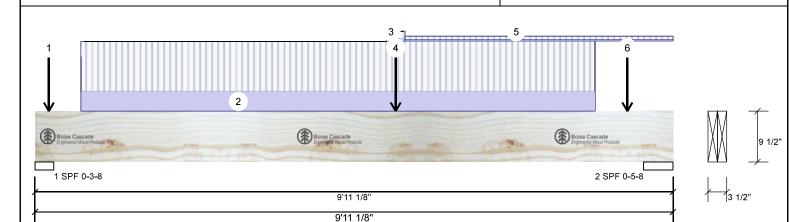
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RIVER 11-3 STD Job Name:

Project #

Versa-Lam LVL 2.1E 3100 SP



Member Information Unfactored Reactions UNPATTERNED Ib (Uplift) Application: Floor (Residential) Type: Brg Direction Live Dead Snow Wind Plies 2 Design Method: LSD 1075 Vertical 484 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 1214 541 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** 40 PSF Floor Live: 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" Vert 29% 605 / 1613 2218 L 1.25D+1.5L 2 - SPF 5.500 Vert 21% 676 / 1822 2497 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.

Point

Tie-In

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



Far Face

Top

Continued on page 2...

Notes

ID

2

3

5

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

Handling & Installation

5-7-5

5-9-1 to 9-11-2 0-5-5

- 1. LVL 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. Damageed 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

35 lb

40 PSF

20 lb

15 PSF

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0 lb

0 PSF

Manufacturer Info Kott Inc.

F9

0 lb

0 PSF

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READ ALL NOTES ON THIS PAGE AND ON THE

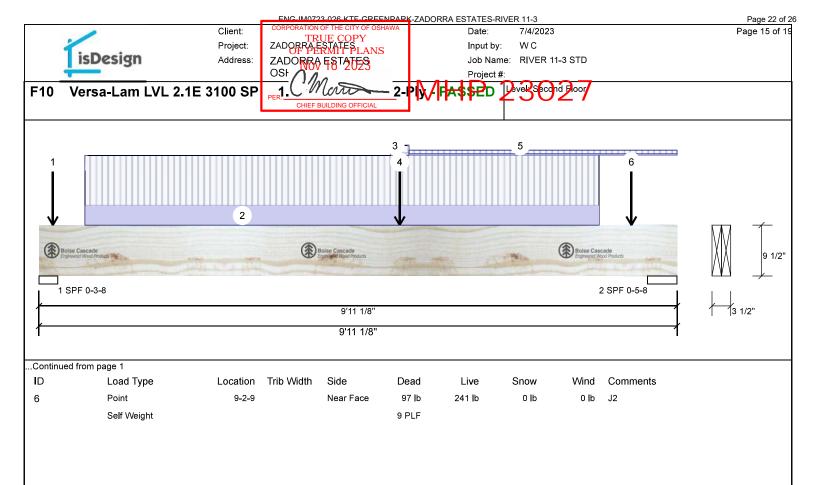
ENGINEERING NOTES: EWP-FLOORS. THE NOTE

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 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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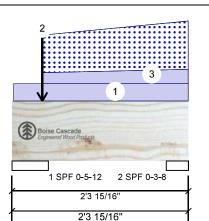
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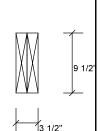
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Job Name: RIVER 11-3 STD

Project #

Versa-Lam LVL 2.1E 3100 SP





Member Information

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

Floor Live: 40 PSF 15 PSF Dead:

Application: Design Method:

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

LSD

Floor (Residential)

Load Sharing:

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

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 0 | 442 | 839 | 0 |
| 2 | Vertical | 0 | 161 | 220 | 0 |
| | | | | | |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. R | eact D/L I b | Total | Ld. Case | Ld. Comb. |
|---------|--------|------|--------|---------------------|-------|----------|------------|
| 1 - SPF | 5.750" | Vert | 15% | 552 / 1259 | 1811 | L | 1.25D+1.5S |
| 2 - SPF | 3.500" | Vert | 7% | 201 / 330 | 531 | L | 1.25D+1.5S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|---------------------|-----------|---------------|------------|------------|---------|
| Moment | 169 ft-lb | 1'3 1/4" | 23220 ft-lb | 0.007 (1%) | 1.25D+1.5S | L |
| Unbraced | 169 ft-lb | 1'3 1/4" | 23220 ft-lb | 0.007 (1%) | 1.25D+1.5S | L |
| Shear | 9 l b | 1'3 1/4" | 6873 lb | 0.001 (0%) | 1.4D | Uniform |
| Perm Defl in. | 0.000 (L/298437) | 1'3 1/8" | 0.056 (L/360) | 0.001 (0%) | D | Uniform |
| LL Defl inch | 0.000 (L/224975) | 1'3 3/16" | 0.056 (L/360) | 0.002 (0%) | S | L |
| TL Defl inch | 0.000 (L/128278) | 1'3 3/16" | 0.084 (L/240) | 0.002 (0%) | D+S | L |

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 2'3 15/16" o.c.
- 7 Bottom must be laterally braced at bearings.
- 8 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

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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Kott Inc.

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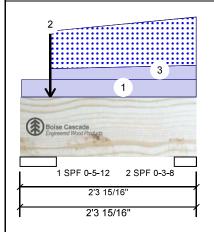
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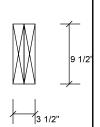
Job Name: RIVER 11-3 STD

Project #

Versa-Lam LVL 2.1E 3100 SP

Level Second Floor





| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|----------------|-----------------|------------|------|----------------|--------------|---------|--------------|------------------|
| 1 | Part. Uniform | 0-0-4 to 2-3-14 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 2 | Point | 0-4-13 | | Тор | 284 l b | 0 l b | 680 lb | 0 l b | F12 |
| | Bearing Length | 0-5-8 | | | | | | | |
| 3 | Tapered Start | 0-4-15 | | Тор | 51 PLF | 0 PLF | 173 PLF | 0 PLF | |
| | End | 2-3-14 | | | 66 PLF | 0 PLF | 223 PLF | 0 PLF | |
| | Self Weight | | | | 9 PLF | | | | |



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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-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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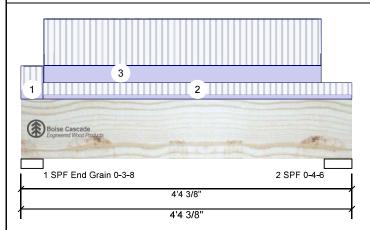
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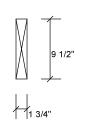
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Versa-Lam LVL 2.1E 3100 S F8









| N | lam | hor | Info | rms | tion | |
|----|------|-----|------|-------|------|---|
| I١ | ленн | Dei | mu | HIIIc | เนษเ | ı |

| Type: | Girder | Application: | Floor (Residential) |
|---------------------|-------------|----------------|------------------------------------|
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | · | Building Code: | NBCC 2015 OBC 2012(2020 Update) |
| Deflection LL: | 360 | | OBC 2012(2020 Opuate) |
| 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 | 165 | 72 | 0 | 0 |
| 2 | Vertical | 159 | 70 | 0 | 0 |
| l | | | | | |

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

| Bearing | Length | Dir. | Cap. Rea | ct D/L l b | 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 |



JULY 04, 2023

Comments

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. | | | | | | | | | | |
|--|---------------|------------------|------------|------|--------|--------|--|--|--|--|
| I D | Load Type | Location | Trib Width | Side | Dead | Live | | | | |
| 1 | Tie-In | 0-0-0 to 0-3-8 | 0-10-7 | Тор | 15 PSF | 40 PSF | | | | |
| 2 | Tie-In | 0-3-8 to 4-4-6 | 0-5-2 | Тор | 15 PSF | 40 PSF | | | | |
| 3 | Part. Uniform | 0-3-10 to 3-11-8 | | Тор | 25 PLF | 67 PLF | | | | |
| | Self Weight | | | | 5 PLF | | | | | |

0 PSF 0 PSF 0 PSF 0 PLF 0 PLF

Wind

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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

Snow

0 PSF

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Client: Project: Address:

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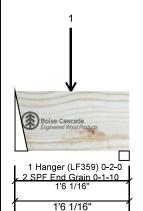
Job Name: RIVER 11-3 STD

Project #

Versa-Lam LVL 2.1E 3100 SP







| N | / | eı | n | b | e | r | I | n | ıt | 0 | r | n | n | a | t | l | 0 | n |
|---|---|----|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | |

| 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 l | 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

| Bearing Length | Dir. | Cap. Re | eact D/L I b | Total | Ld. Case | Ld. Comb. |
|--------------------------------|------|---------|---------------------|-------|----------|------------|
| 1 - 2.000" Hanger | Vert | 1% | 25 / 53 | 78 | L | 1.25D+1.5L |
| 2 - SPF 1.628" End Grain | 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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| I D | 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 l b | J5 |
| | Self Weight | | | 9 PLF | | | | |

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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