

CORPORATION OENIGE IN10623 CREAKTF - GREENPARK-ZADORRA ESTATES-RIVER 3-2 TRREEMPARK Project: PERMIT PLANS Dec 04-2023--- _{(TE}

Input by: WC

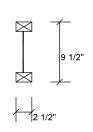
Job Name: RIVER 3-2 STD

F1 AJS 140 9.500' PAS



Level: Gound Floor





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

General Load 40 PSF Floor Live: 15 PSF Dead:

Application: Floor (Residential) Design Method: LSD

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

Load Sharing:

Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 40 | 17 | 0 | 0 |
| 2 | Vertical | 38 | 19 | 0 | 0 |
| 1 | | | | | |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. | React D/L Ib | Total | Ld. Case | Ld. Comb. |
|---------------|--------|------|------|--------------|-------|----------|------------|
| 1 - SPF | 2.375" | Vert | 5% | 22 / 60 | 82 | L | 1.25D+1.5L |
| 2 - Hanger | 2.000" | Vert | 5% | 24 / 57 | 81 | L | 1.25D+1.5L |

Analysis Results

| Ana l ysis | Actua l | 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 | 1'3 3/8" | 1830 lb | 0.037 (4%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.000 (L/154179) | 8 5/8" | 0.038 (L/360) | 0.002 (0%) | D | Uniform |
| LL Defl inch | 0.000 (L/74921) | 8 1/2" | 0.038 (L/360) | 0.005 (0%) | L | L |
| TL Defl inch | 0.000 (L/50421) | 8 1/2" | 0.057 (L/240) | 0.005 (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 Fill all hanger nailing holes.
- 3 Right Header: SPF, Thickness: 2 1/2"

Part. Uniform

- 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.

0-4-12 to 1-4-10

6 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.

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|-------|--------------------------|--------|
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| • | WINCE OF ONTE | |

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

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|-----------|-----------------|------------|------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 1-4-10 | 1-4-15 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |

Top

2

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

Dry service conditions, unless noted otherwise
 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.

7 PLF

0 PLF

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

0 PLF

Boise Cascade Wood Products 1111 W. Jefferson St.

0 PLF

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

Kott Inc.





isDesign

CORPORATION OF ING - INTO 623 OF 44 KATE - GREENPARK-ZADORRA ESTATES-RIVER 3-2 TRREEMPRAK Project: PERMIT PLANS

W C Input by:

Job Name: RIVER 3-2 STD

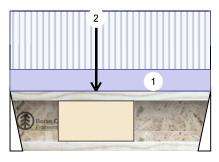
F2 **AJS 140**

Member Information

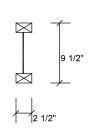
9.500"



Level: Gound Fleor







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 15 PSF Dead:

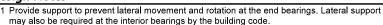
| | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | | |
|---|--|-----------|------|------|------|------|--|--|--|
| | Brg | Direction | Live | Dead | Snow | Wind | | | |
| | 1 | Vertical | 229 | 86 | 0 | 0 | | | |
|) | 2 | Vertical | 179 | 67 | 0 | 0 | | | |
| | | | | | | | | | |

Analysis Results Analysis Actual Location Allowed Capacity Comb. Case 426 ft-lb 1'1 5/8" 4095 ft-lb 0.104 (10%) 1.25D+1.5L L Moment Unbraced 426 ft-lb 1'1 5/8" 4095 ft-lb 0.104 (10%) 1.25D+1.5L L 0.243 (24%) 1.25D+1.5L L 444 lb 1 1/4" 1830 lb Shear Perm Defl in 0.002 1'1 5/8" 0.081 (L/360) 0.023 (2%) D Uniform (L/15594) LL Defl inch 0.005 (L/5837) 1'1 5/8" 0.081 (L/360) 0.062 (6%) L L

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. Re | act D/L I b | Total | Ld. Case | Ld. Comb. |
|---------------|--------|------|---------|--------------------|-------|----------|------------|
| 1 - Hanger | 2.000" | Vert | 28% | 107 / 343 | 450 | L | 1.25D+1.5L |
| 2 - Hanger | 2.000" | Vert | 22% | 84 / 267 | 351 | L | 1.25D+1.5L |

Design Notes



1'1 5/8" 0.122 (L/240) 0.057 (6%) D+L

2 Fill all hanger nailing holes.

TL Defl inch 0.007 (L/4247)

- 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 | 0-9-4 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Point | 1-1-10 | | Near Face | 122 b | 326 l b | 0 l b | 0 lb | J2 |

L

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

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

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

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

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

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

Kott Inc.



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CORPORATION OF ING - INTO 623 OF 44 KATE - GREENPARK-ZADORRA ESTATES-RIVER 3-2 TRREEMPRAK Project: PERMIT PLANS

W C Input by:

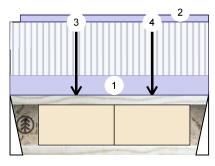
Job Name: RIVER 3-2 STD

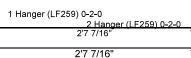
AJS 140

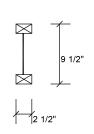
9.500" - P/



Level: Gound Fleor







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 15 PSF Dead:

| | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | | | |
|---|--|-----------|------|------|------|------|--|--|--|--|
| | Brg | Direction | Live | Dead | Snow | Wind | | | | |
| | 1 | Vertical | 220 | 100 | 0 | 0 | | | | |
|) | 2 | Vertical | 235 | 107 | 0 | 0 | | | | |

Bearings and Factored Reactions Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 125 / 330 1 -2.000" Vert 29% 455 L 1.25D+1.5L Hanger 2 -2.000" Vert 31% 134 / 352 486 L 1.25D+1.5L Hanger

Analysis Results

Member Information

| Analysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|---------------|--------------------|-----------|-----------------|-------------|------------|---------|
| Moment | 326 ft-lb | 10 11/16" | 4095 ft-lb | 0.080 (8%) | 1.25D+1.5L | L |
| Unbraced | 326 ft-lb | 10 11/16" | 4095 ft-lb | 0.080 (8%) | 1.25D+1.5L | L |
| Shear | 479 lb | 2'6 3/16" | 1830 l b | 0.262 (26%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.002 (L/16718) | 1'2 5/16" | 0.080 (L/360) | 0.022 (2%) | D | Uniform |
| LL Defl inch | 0.004 (L/7600) | 1'2 1/4" | 0.080 (L/360) | 0.047 (5%) | L | L |
| TI Deflinch | 0.006 (L/5225) | 1'2 5/16" | 0.121 (L/240) | 0.046 (5%) | D+L | L |

Design Notes

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



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| ı | I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|---|------------|---------------|-----------------|------------|----------|--------|--------|-------|--------------|----------|
| | 1 | Tie-In | 0-0-0 to 2-7-7 | 0-9-4 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | 2 | Part. Uniform | 0-1-10 to 2-7-7 | | Тор | 4 PLF | 0 PLF | 0 PLF | 0 PLF | |
| | 3 | Point | 0-10-8 | | Far Face | 86 lb | 193 lb | 0 lb | 0 l b | J1 |
| ı | 4 | Point | 1-10-8 | | Far Face | 81 lb | 181 lb | 0 lb | 0 lb | J1 |

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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

www.bc.com CCMC: 12787

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

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

Kott Inc.





CORPORATION OENIGE-IN10023018841KTF-GREENPARK-ZADORRA ESTATES-RIVER 3-2 Date:

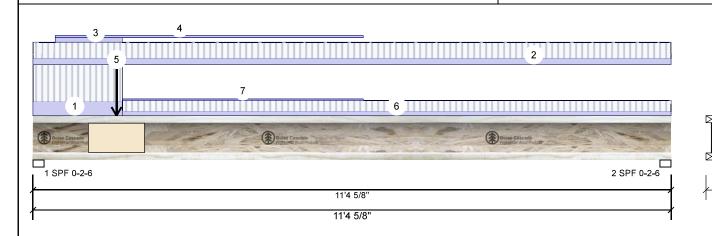
Page 7 of 32 Page 4 of 25

6/28/2023

Input by: WC Job Name: RIVER 3-2 STD

9.500' - PAIS IN OFFICIA F3 **AJS 140**

Level: Ground Floor



| Member Infor | mation | | | Unfa | actored Rea | ctions L | JNP | ATTERNED I I | b (Up l i | ft) | |
|-----------------------------------|---------------|----------------|------------------------------------|------|--------------|----------|------|----------------------|------------------|----------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | Liv | /e | Dead | | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | 50 | 03 | 231 | | 0 | 0 |
| Moisture Condition Deflection LL: | n: Dry 360 | Building Code: | NBCC 2015 OBC 2012(2020 Update) | 2 | Vertical | 2 | 70 | 111 | | 0 | 0 |
| Deflection TL: | 240 | Load Sharing: | No | | | | | | | | |
| Importance: | Normal - II | Deck: | Not Checked | | | | | | | | |
| General Load | | Vibration: | Not Checked | | | | | | | | |
| Floor Live: | 40 PSF | | | Bea | rings and Fa | actored | Rea | ctions | | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. | Сар. | React D/L I b | Total | Ld. Case | Ld. Comb. |
| | | | | 1 - | SPF 2.375" | Vert | 63% | 288 / 755 | 1043 | L | 1.25D+1.5L |
| | | | | 2 - | SPF 2.375" | Vert | 33% | 139 / 405 | 544 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|-----------------|------------|-----------------|-------------|------------|---------|
| Moment | 1725 ft-lb | 4'10 1/16" | 4095 ft-lb | 0.421 (42%) | 1.25D+1.5L | L |
| Unbraced | 1725 ft-lb | 4'10 1/16" | 4095 ft-lb | 0.421 (42%) | 1.25D+1.5L | L |
| Shear | 1021 l b | 1 5/8" | 1830 l b | 0.558 (56%) | 1.25D+1.5L | L |
| Perm Defl in | 0.053 (L/2499) | 5'4 7/16" | 0.371 (L/360) | 0.144 (14%) | D | Uniform |
| LL Defl inch | 0.120 (L/1111) | 5'5 7/16" | 0.371 (L/360) | 0.324 (32%) | L | L |
| TL Defl inch | 0.173 (L/769) | 5'5 1/8" | 0.556 (L/240) | 0.312 (31%) | 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 9'10 3/4" 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 1-7-2 | 1-5-0 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-0-0 to 11-4-10 | 0-7-6 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Part. Uniform | 0-4-12 to 1-7-2 | | Тор | 7 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 4 | Part. Uniform | 0-4-12 to 5-10-12 | | Тор | 3 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 5 | Point | 1-5-14 | | Far Face | 107 l b | 235 lb | 0 lb | 0 lb | F2 |
| 6 | Tie-In | 1-7-2 to 11-4-10 | 0-5-2 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 7 | Part. Uniform | 1-7-2 to 5-10-12 | | Тор | 2 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 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

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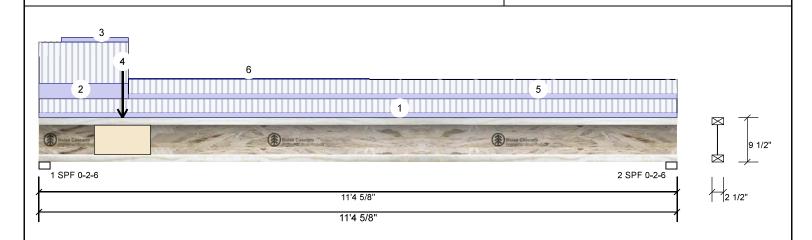
Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.



low **AJS 140** 9.500" - PA F₃-A





| Member Inforn | nation | | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | |
|---------------------|-------------|----------------|-----------------------|--|--------------|---------|------|--------------|-------|----------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | Liv | /e | Dead | | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | 46 | 67 | 200 | | 0 | 0 |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 | 2 | Vertical | 24 | 19 | 97 | | 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 | <u> </u> | | | | | | | |
| Floor Live: | 40 PSF | | | Bea | rings and Fa | actored | Rea | ctions | | | |
| Dead: | 15 PSF | | | Be | aring Length | Dir. | Сар. | React D/L Ib | Total | Ld. Case | Ld. Comb. |
| | | | | 1 - | SPF 2.375" | Vert | 57% | 250 / 700 | 950 | L | 1.25D+1.5L |
| | | | | 2 - | SPF 2.375" | Vert | 30% | 122 / 373 | 495 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|------------|---------------|-------------|------------|---------|
| Moment | 1554 ft-lb | 4'10 3/16" | 4095 ft-lb | 0.379 (38%) | 1.25D+1.5L | L |
| Unbraced | 1554 ft-lb | 4'10 3/16" | 4095 ft-lb | 0.379 (38%) | 1.25D+1.5L | L |
| Shear | 930 lb | 1 5/8" | 1830 lb | 0.508 (51%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.045 (L/2954) | 5'4 3/4" | 0.371 (L/360) | 0.122 (12%) | D | Uniform |
| LL Defl inch | 0.111 (L/1202) | 5'5 3/8" | 0.371 (L/360) | 0.299 (30%) | L | L |
| TL Defl inch | 0.156 (L/854) | 5'5 1/4" | 0.556 (L/240) | 0.281 (28%) | 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 9'10 3/4" 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 11 -4- 10 | 0-5-10 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In 0- | -0-0 to 1-7-2 | 1-5-0 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Part. Uniform 0-4 | 1-12 to 1-7-2 | | Тор | 6 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 4 | Point | 1-5-14 | | Near Face | 100 lb | 220 lb | 0 lb | 0 lb | F2 |
| 5 | Tie-In 1-7- | -2 to 11-4-10 | 0-5-14 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 6 | Part. Uniform 1-7- | 2 to 5-10-12 | | Тор | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 1 | | | | | | | | | |

Notes

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be cut or drilled

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

 3. Damaged Juoists must not be used

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

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

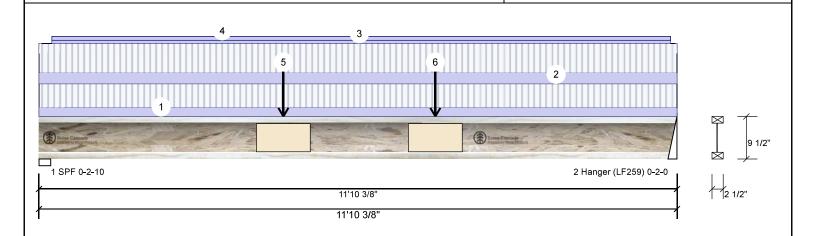
Kott Inc.





F₃-B **AJS 140** 9.500° - RA

Level: Ground Floor



2 -

| Type: | Girder | Application: | Floor (Residential) | Brg | Direction | | Live | Dead | | Snow |
|--------------------|-------------|----------------|-----------------------|-------|--------------|-------|--------|--------------|-------|----------|
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | | 367 | 183 | | 0 |
| Moisture Condition | n: Dry | Building Code: | NBCC 2015 | 2 | Vertical | | 365 | 182 | | 0 |
| Deflection LL: | 360 | | OBC 2012(2020 Update) | | | | | | | |
| Deflection TL: | 240 | Load Sharing: | No | | | | | | | |
| Importance: | Normal - II | Deck: | Not Checked | | | | | | | |
| General Load | | Vibration: | Not Checked | | | | | | | |
| Floor Live: | 40 PSF | | | Bear | rings and Fa | ctore | d Reac | tions | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. | Cap. | React D/L Ib | Total | Ld. Case |
| | | | | 1 1 - | SPF 2 625" | Vert | 46% | 228 / 551 | 779 | 1 |

Analysis Results

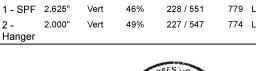
Member Information

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|-----------|-----------------|-------------|------------|---------|
| Moment | 2334 ft-lb | 5'11 1/2" | 4095 ft-lb | 0.570 (57%) | 1.25D+1.5L | L |
| Unbraced | 2334 ft-lb | 5'11 1/2" | 4095 ft-lb | 0.570 (57%) | 1.25D+1.5L | L |
| Shear | 763 lb | 11'9 1/8" | 1830 l b | 0.417 (42%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.083 (L/1676) | 5'11 1/2" | 0.387 (L/360) | 0.215 (21%) | D | Uniform |
| LL Defl inch | 0.166 (L/840) | 5'11 1/2" | 0.387 (L/360) | 0.428 (43%) | L | L |
| TL Defl inch | 0.249 (L/560) | 5'11 1/2" | 0.580 (L/240) | 0.429 (43%) | D+L | L |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 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 4'6 1/2" o.c.



Unfactored Reactions UNPATTERNED Ib (Uplift)



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.

| ı | o bollom hange | must be laterally bra | aceu at a maximum i | 0146 1/2 0.0. | | | | | | |
|---|----------------|-----------------------|---------------------|---------------|-----------|---------------|---------------|--------------|-------|----------|
| | I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| | 1 | Tie-In | 0-0-0 to 11-10-6 | 0-7-6 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | 2 | Tie-In | 0-0-0 to 11-10-6 | 0-9-4 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | 3 | Part. Uniform | 0-2-14 to 11-8-14 | | Тор | 3 PLF | 0 PLF | 0 PLF | 0 PLF | |
| | 4 | Part. Uniform | 0-2-14 to 11-8-14 | | Тор | 4 PLF | 0 PLF | 0 PLF | 0 PLF | |
| | 5 | Point | 4-6-8 | | Near Face | 19 l b | 38 b | 0 lb | 0 lb | F1 |
| | 6 | Point | 7-4-7 | | Near Face | 19 l b | 38 lb | 0 l b | 0 lb | F1 |

Notes

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

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

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

 3. Damaged Jioists must not be used

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

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

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

Kott Inc.

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

Wind

Ld. Comb. 1.25D+1.5L

1.25D+1.5L

0

0





isDesign

TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE)

Input by: WC

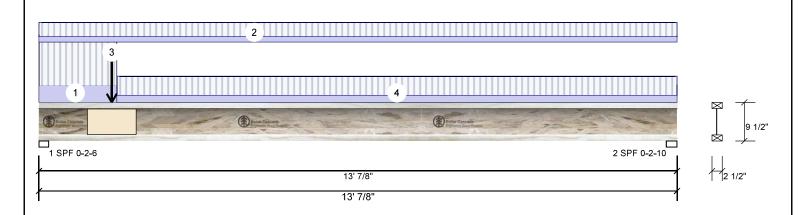
Job Name: RIVER 3-2 STD

AJS 140 F4

9.500" - PAS



Level: Gound Floor



| Member Inform | nation | | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | |
|--------------------|-------------|----------------|-----------------------|--|--------------|---------|------|--------------|-------|----------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | L | ive | Dead | | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | | 536 | 201 | | 0 | 0 |
| Moisture Condition | : Dry | Building Code: | NBCC 2015 | 2 | Vertical | : | 311 | 117 | | 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 | Reac | tions | | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. | Сар. | React D/L Ib | Total | Ld. Case | Ld. Comb. |
| | | | | 1 - | SPF 2.375" | Vert | 64% | 252 / 804 | 1056 | L | 1.25D+1.5L |
| | | | | 2- | SPF 2.625" | Vert | 36% | 146 / 466 | 612 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|-------------|---------------|-------------|------------|---------|
| Moment | 2098 ft-lb | 5'10 13/16" | 4095 ft-lb | 0.512 (51%) | 1.25D+1.5L | L |
| Unbraced | 2098 ft-lb | 5'10 13/16" | 4095 ft-lb | 0.512 (51%) | 1.25D+1.5L | L |
| Shear | 1036 lb | 1 5/8" | 1830 lb | 0.566 (57%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.073 (L/2090) | 6'3 15/16" | 0.426 (L/360) | 0.172 (17%) | D | Uniform |
| LL Defl inch | 0.196 (L/784) | 6'3 15/16" | 0.426 (L/360) | 0.459 (46%) | L | L |
| TL Defl inch | 0.269 (L/570) | 6'3 15/16" | 0.639 (L/240) | 0.421 (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 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 11'7" o.c.



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

| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|-----------|------------------|------------|----------|--------|----------------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 1-7-2 | 1-5-2 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-0-0 to 13-0-14 | 0-5-9 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Point | 1-5-14 | | Far Face | 86 lb | 229 l b | 0 lb | 0 lb | F2 |
| 4 | Tie-In | 1-7-2 to 13-0-14 | 0-7-7 | 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.







TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE) Addres

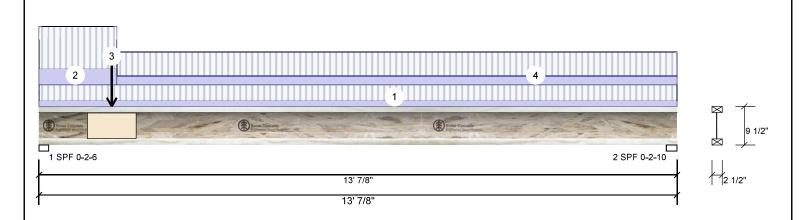
Input by: WC

Job Name: RIVER 3-2 STD

AJS 140

9.500" - PA

Level: Ground Floor



| Member Inform | nation | | | Unfactored Reactions UNPATTERNED Ib (Uplift) | | | | | | |
|--------------------|-------------|----------------|-----------------------|--|--------------|---------|--------|--------------|----------------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | l | _ive | Dead | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | | 546 | 204 | 0 | 0 |
| Moisture Condition | : Dry | Building Code: | | | Vertical | | 370 | 139 | 0 | 0 |
| Deflection LL: | 360 | | OBC 2012(2020 Update) | | | | | | | |
| Deflection TL: | 240 | Load Sharing: | No | | | | | | | |
| Importance: | Normal - II | Deck: | Not Checked | | | | | | | |
| General Load | | Vibration: | Not Checked | | | | | | | |
| Floor Live: | 40 PSF | | | Bea | rings and Fa | actored | l Read | tions | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. | Сар. | React D/L Ib | Total Ld. Case | Ld. Comb. |
| | | | | 1 - | SPF 2.375" | Vert | 65% | 256 / 818 | 1074 L | 1.25D+1.5L |
| Amalysis Dasylt | | | | 2 - | SPF 2.625" | Vert | 43% | 174 / 555 | 729 L | 1.25D+1.5L |

Analysis Results

| Ana l ysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|-------------------|----------------|-----------|---------------|-------------|------------|---------|
| Moment | 2417 ft-lb | 6'1 9/16" | 4095 ft-lb | 0.590 (59%) | 1.25D+1.5L | L |
| Unbraced | 2417 ft-lb | 6'1 9/16" | 4095 ft-lb | 0.590 (59%) | 1.25D+1.5L | L |
| Shear | 1053 lb | 1 5/8" | 1830 lb | 0.575 (58%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.084 (L/1823) | 6'4 3/4" | 0.426 (L/360) | 0.197 (20%) | D | Uniform |
| LL Defl inch | 0.224 (L/684) | 6'4 3/4" | 0.426 (L/360) | 0.527 (53%) | L | L |
| TL Defl inch | 0.308 (L/497) | 6'4 3/4" | 0.639 (L/240) | 0.483 (48%) | D+L | L |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 11'7" 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 13-0-14 | 0-6-5 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-0-0 to 1-7-2 | 1-5-2 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Point | 1-5-14 | | Near Face | 67 l b | 179 l b | 0 lb | 0 lb | F2 |
| 4 | Tie-In | 1-7-2 to 13-0-14 | 0-9-11 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |

Notes

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be cut or drilled

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

 3. Damaged Juoists must not be used

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

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.

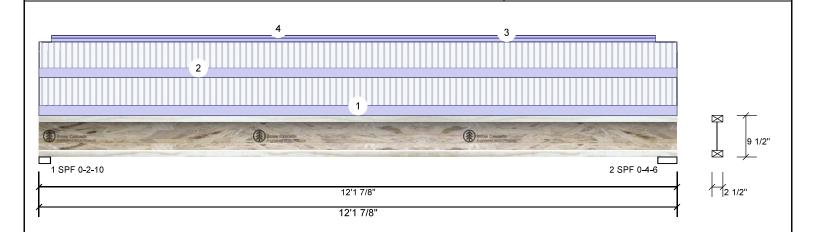




AJS 140 F4-B

9.500^m - PA

Level: Ground Floor



| Member Infor | mation | | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | |
|--------------------|-------------|----------------|-----------------------|--|--------------|--------|---------|----------------------|----------------|------------|--|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | | Live | Dead | Snow | Wind | |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | | 247 | 121 | 0 | 0 | |
| Moisture Condition | n: Dry | , | | 2 | Vertical | | 253 | 124 | 0 | 0 | |
| Deflection LL: | 360 | | OBC 2012(2020 Update) | | | | | | | | |
| Deflection TL: | 240 | Load Sharing: | No | | | | | | | | |
| Importance: | Normal - II | Deck: | Not Checked | | | | | | | | |
| General Load | | Vibration: | Not Checked | | | | | | | | |
| Floor Live: | 40 PSF | | | Bea | rings and Fa | actore | d React | ions | | | |
| Dead: | 15 PSF | | | Be | aring Length | Dir. | Cap. F | React D/L I b | Total Ld. Case | Ld. Comb. | |
| | | | | 1 - | SPF 2.625" | Vert | 31% | 152 / 370 | 522 L | 1.25D+1.5L | |
| Analosis Desci | _ | | | 2 - | SPF 4.375" | Vert | 29% | 154 / 380 | 534 L | 1.25D+1.5L | |

Analysis Results

| Analysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|----------|---------------|-------------|------------|---------|
| Moment | 1492 ft-lb | 6' 1/16" | 4095 ft-lb | 0.364 (36%) | 1.25D+1.5L | L |
| Unbraced | 1492 ft-lb | 6' 1/16" | 4095 ft-lb | 0.364 (36%) | 1.25D+1.5L | L |
| Shear | 510 lb | 1 7/8" | 1830 lb | 0.279 (28%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.054 (L/2613) | 6' 1/16" | 0.390 (L/360) | 0.138 (14%) | D | Uniform |
| LL Defl inch | 0.108 (L/1297) | 6' 1/16" | 0.390 (L/360) | 0.278 (28%) | L | L |
| TL Defl inch | 0.162 (L/867) | 6' 1/16" | 0.585 (L/240) | 0.277 (28%) | D+L | L |

Design Notes

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



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

| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments | |
|------------|---------------|-------------------|------------|------|--------|--------|-------|-------|----------|--|
| 1 | Tie-In | 0-0-0 to 12-1-14 | 0-6-6 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | | |
| 2 | Tie-In | 0-0-0 to 12-1-14 | 0-6-0 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | | |
| 3 | Part. Uniform | 0-2-14 to 11-8-14 | | Тор | 3 PLF | 0 PLF | 0 PLF | 0 PLF | | |
| 4 | Part. Uniform | 0-2-14 to 11-8-14 | | Тор | 2 PLF | 0 PLF | 0 PLF | 0 PLF | | |
| | | | | | | | | | | |

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

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

 3. Damaged Jioists must not be used

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

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

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

Kott Inc.







TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE)

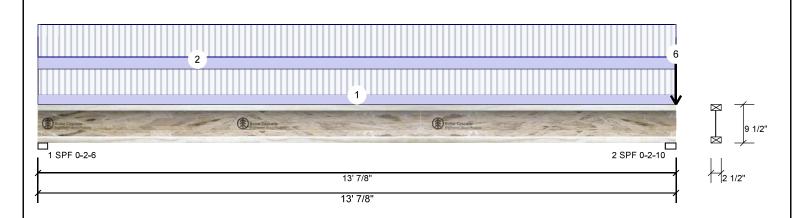
Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-2 STD

AJS 140 F4-C

9.500" - PA

Level: Ground Floor



| Member Inform | mation | | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | |
|---------------------|-------------|----------------|-----------------------|--|--------------|---------|------|--------------|-------|----------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | Li | ve | Dead | | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | 3 | 12 | 117 | | 0 | 0 |
| Moisture Condition: | : Dry | Building Code: | NBCC 2015 | 2 | Vertical | 4 | 77 | 223 | | 0 | 0 |
| Deflection LL: | 360 | | OBC 2012(2020 Update) | | | | | | | | |
| Deflection TL: | 240 | Load Sharing: | No | | | | | | | | |
| Importance: | Normal - II | Deck: | Not Checked | | | | | | | | |
| General Load | | Vibration: | Not Checked | | | | | | | | |
| Floor Live: | 40 PSF | | | Bear | rings and Fa | actored | Rea | ctions | | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. | Сар. | React D/L Ib | Total | Ld. Case | Ld. Comb. |
| | | | | 1 - | SPF 2.375" | Vert | 37% | 146 / 468 | 614 | L | 1.25D+1.5L |
| | | | | 2 - | SPF 2.625" | Vert | 59% | 279 / 716 | 995 | L | 1.25D+1.5L |

Analysis Results

| Ana l ysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|-------------------|----------------|-----------|---------------|-------------|------------|---------|
| Moment | 1922 ft-lb | 6'6 5/16" | 4095 ft-lb | 0.469 (47%) | 1.25D+1.5L | L |
| Unbraced | 1922 ft-lb | 6'6 5/16" | 4095 ft-lb | 0.469 (47%) | 1.25D+1.5L | L |
| Shear | 602 l b | 12'11" | 1830 lb | 0.329 (33%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.066 (L/2327) | 6'6 5/16" | 0.426 (L/360) | 0.155 (15%) | D | Uniform |
| LL Defl inch | 0.176 (L/873) | 6'6 5/16" | 0.426 (L/360) | 0.413 (41%) | L | L |
| TL Defl inch | 0.242 (L/635) | 6'6 5/16" | 0.639 (L/240) | 0.378 (38%) | 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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| . Bottom na | Pottom flange mast be faterally braced at bearings. | | | | | | | | | |
|-----------------|---|------------------|------------|------|---------------|---------------|-------|--------------|------------------|--|
| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments | |
| 1 | Tie-In | 0-0-0 to 13-0-14 | 0-6-6 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | | |
| 2 | Tie-In | 0-0-0 to 13-0-14 | 0-8-0 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | | |
| 3 | Point | 13-0-14 | | Тор | 29 l b | 79 l b | 0 lb | 0 lb | J3 | |
| | Bearing Length | 0-1-8 | | | | | | | | |
| 4 | Point | 13-0-14 | | Тор | 32 lb | 85 lb | 0 lb | 0 l b | J3 | |
| | Bearing Length | 0-1-8 | | | | | | | | |
| 5 | Point | 13-0-14 | | Тор | 35 l b | 0 l b | 0 lb | 0 l b | Wall Self Weight | |
| Continued on pa | age 2 | | | | | | | | | |

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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.

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.

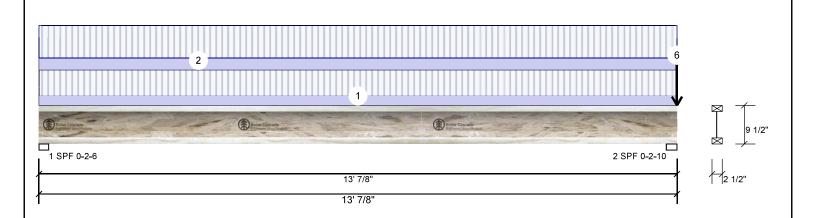
Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.









Dead

10 lb

Live

0 lb

Snow

0 lb

Wind

0 **b**

Comments

Wall Self Weight



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Notes

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.Continued from page 1

Load Type

Point

Bearing Length

Bearing Length

ID

6

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

Location Trib Width

0-1-8

0-1-8

13-0-14

Side

Тор

Manufacturer Info

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

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

Kott Inc.







CORPORATION OF ING. IMIO 623 01844 WAF-GREENPARK-ZADORRA ESTATES-RIVER 3-2 TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE) Addres low

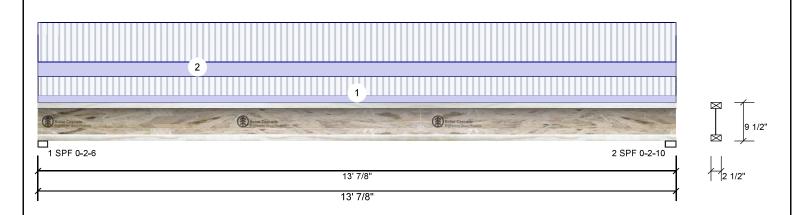
Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-2 STD

AJS 140 F4-D

9.50<mark>0" - PA</mark>

Level: Ground Floor



| Member Infor | mation | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | | | |
|-------------------|-------------|--|-----------------------|-----|--------------|---------|------|--------------|---------|---------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | L | ive | Dead | S | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | : | 296 | 111 | | 0 | 0 |
| Moisture Conditio | n: Dry | Building Code: | NBCC 2015 | 2 | Vertical | : | 297 | 111 | | 0 | 0 |
| Deflection LL: | 360 | | OBC 2012(2020 Update) | | | | | | | | |
| Deflection TL: | 240 | Load Sharing: | No | | | | | | | | |
| Importance: | Normal - II | Deck: | Not Checked | | | | | | | | |
| General Load | | Vibration: | Not Checked | | | | | | | | |
| Floor Live: | 40 PSF | | | Bea | rings and F | actored | Read | ctions | | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. | Cap. | React D/L Ib | Total L | d. Case | Ld. Comb. |
| | | | | 1 - | SPF 2.375" | Vert | 35% | 139 / 443 | 582 L | - | 1.25D+1.5L |
| | | | | 2 - | SPF 2.625" | Vert | 34% | 139 / 445 | 584 L | - | 1.25D+1.5L |

Analysis Results

| Analysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|-----------|---------------|-------------|------------|---------|
| Moment | 1821 ft-lb | 6'6 5/16" | 4095 ft-lb | 0.445 (44%) | 1.25D+1.5L | L |
| Unbraced | 1821 ft-lb | 6'6 5/16" | 4095 ft-lb | 0.445 (44%) | 1.25D+1.5L | L |
| Shear | 570 lb | 12'11" | 1830 lb | 0.311 (31%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.062 (L/2456) | 6'6 5/16" | 0.426 (L/360) | 0.147 (15%) | D | Uniform |
| LL Defl inch | 0.167 (L/921) | 6'6 5/16" | 0.426 (L/360) | 0.391 (39%) | L | L |
| TL Defl inch | 0.229 (L/670) | 6'6 5/16" | 0.639 (L/240) | 0.358 (36%) | D+L | L |

Design Notes

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

0-0-0 to 13-0-14 0-9-4

Tie-In

| If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c. Bottom flange must be laterally braced at bearings. | | | | | | | AS IT CON | TAINS SPEC | FIFICATIONS AND FIFICATIONS AND FIFICATIONS AND |
|---|-----------|------------------|------------|------|--------|--------|-----------|------------|---|
| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| 1 | Tie-In | 0-0-0 to 13-0-14 | 0-4-6 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |

Тор

2

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

Dry service conditions, unless noted otherwise
 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.

15 PSF

40 PSF

0 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 ponding

This design is valid until 4/17/2026



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

0 PSF

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







TRREEMPARK Project: PERMIT PLANS Dec 04-2023--- (TE)

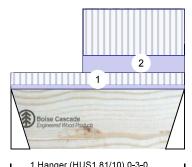
WС Input by:

Job Name: RIVER 3-2 STD

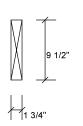
F5

Versa-Lam LVL 2.1E 3100 SP BULDING - ₹50" X 9.500" - FASSED





1 Hanger (HUS1.81/10) 0-3-0 2 Hanger (HUS1.81/10) 0 2'3 1/2" 2'3 1/2"



Member Information Type: Plies:

1 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:

Deck: Not Checked Vibration: Not Checked

| Br | g Direction | Live | Dead | Snow | Wind |
|----|-------------|------|------|------|------|
| 1 | Vertical | 50 | 24 | 0 | 0 |
| 2 | 2 Vertical | 100 | 43 | 0 | 0 |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|---------------------|-----------|---------------|------------|------------|---------|
| Moment | 70 ft-lb | 1'3 1/8" | 11610 ft-lb | 0.006 (1%) | 1.25D+1.5L | L |
| Unbraced | 70 ft-lb | 1'3 1/8" | 11610 ft-lb | 0.006 (1%) | 1.25D+1.5L | L |
| Shear | 48 lb | 1' 1/2" | 5287 lb | 0.009 (1%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.000 (L/498507) | 1'2 3/8" | 0.064 (L/360) | 0.001 (0%) | D | Uniform |
| LL Defl inch | 0.000 (L/219626) | 1'2 7/16" | 0.064 (L/360) | 0.002 (0%) | L | L |
| TL Defl inch | 0.000 (L/152460) | 1'2 3/8" | 0.096 (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 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Right Header: DF, Thickness: 1 3/4"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at bearings.

| Unfactored | Reactions | UNPATTERNED I | b (Uplift) |
|------------|-----------|---------------|------------|
| | | | |

| Bearings and Factored Reactions | | | | | | | | | |
|---------------------------------|--------|------|------|--------------|-------|----------|------------|--|--|
| Bearing | Length | Dir. | Cap. | React D/L Ib | Total | Ld. Case | Ld. Comb. | | |
| 1 - Hanger | 3.000" | Vert | 2% | 30 / 75 | 105 | L | 1.25D+1.5L | | |
| 2 - Hanger | 3.000" | Vert | 4% | 54 / 150 | 204 | L | 1.25D+1.5L | | |



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| | , bettern made to laterally practical at the anninger | | | | | | | | |
|----|---|-----------------|------------|------|--------|--------|-------|-------|----------|
| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| 1 | Tie-In | 0-0-0 to 2-3-8 | 0-5-15 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 0-11-6 to 2-3-8 | 1-11-5 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | Self Weight | | | | 5 PLF | | | | |

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

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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

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

Kott Inc.

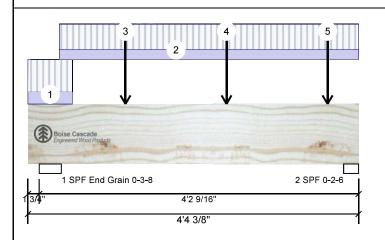
3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400

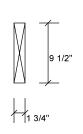


F6









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 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 491 | 195 | 0 | 0 |
| 2 | Vertical | 648 | 253 | 0 | 0 |
| | | | | | |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. Re | act D/L I b | Total Ld. Case | | Ld. Comb. |
|-------------------------|--------|-------|---------|--------------------|----------------|----|------------|
| 1 - SPF End Grain | 3.500" | Vert | 15% | 244 / 737 | 981 | LL | 1.25D+1.5L |
| 2 SDE | 2 375" | \/ert | 50% | 316 / 972 | 1288 | 1 | 1 25D+1 5I |



| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|---------------------|-----------|-------------------|-------------|------------|---------|
| Neg Moment | -1 ft-lb | 1 3/4" | 7546 ft-lb | 0.000 (0%) | 1.25D+1.5L | L_ |
| Pos Moment | 1125 ft-lb | 2'7 7/16" | 11610 ft-lb | 0.097 (10%) | 1.25D+1.5L | _L |
| Unbraced | 1125 ft-lb | 2'7 7/16" | 11610 ft-lb | 0.097 (10%) | 1.25D+1.5L | _L |
| Shear | 1209 lb | 3'4 1/2" | 5287 lb | 0.229 (23%) | 1.25D+1.5L | _L |
| Perm Defl in. | 0.002 (L/19604) | 2'3 3/8" | 0.131 (L/360) | 0.018 (2%) | D | Uniform |
| LL Defl inch | 0.006 (L/7677) | 2'3 3/8" | 0.131 (L/360) | 0.047 (5%) | L | _L |
| TL Defl inch | 0.009 (L/5517) | 2'3 3/8" | 0.197 (L/240) | 0.044 (4%) | D+L | _L |
| LL Cant | -0.001 (2L/5115) | Lt Cant | 0.200 (2L/360) | 0.003 (0%) | L | _L |
| TL Cant | -0.001 (2L/3677) | Lt Cant | 0.300 (2L/240) | 0.003 (0%) | D+L | _L |



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Design Notes

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

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|-----------------|------------|-----------|----------------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 0-7-1 | 1-3-1 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Part. Uniform | 0-4-15 to 4-4-6 | | Тор | 15 PLF | 40 PLF | 0 PLF | 0 PLF | |
| 3 | Point | 1-3-7 | | Near Face | 116 l b | 310 lb | 0 lb | 0 lb | J3 |

Continued on page 2...

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

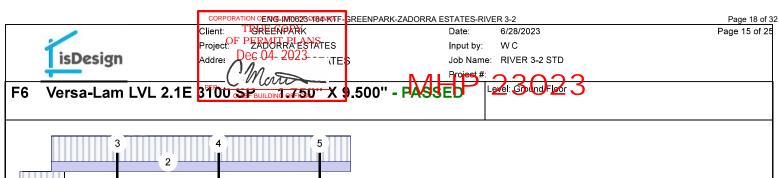
Manufacturer Info Boise Cascade Wood Products

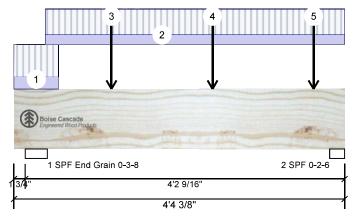
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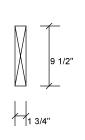
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| Continued | from | page | 1 | |
|-----------|------|------|---|--|
| | | | | |

| I D | Load Type | Location Trib Widt | h Side | Dead | Live | Snow | Wind | Comments | |
|------------|-------------|--------------------|-----------|----------------|----------------|------|--------------|----------|--|
| 4 | Point | 2-7-7 | Near Face | 124 l b | 330 lb | 0 lb | 0 l b | J3 | |
| 5 | Point | 3-11-7 | Near Face | 117 l b | 312 l b | 0 lb | 0 lb | J3 | |
| | Self Weight | | | 5 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

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding Manufacturer Info

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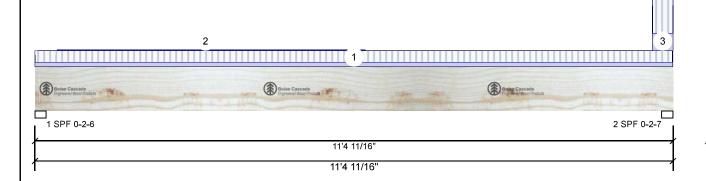
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Date: 6/28/2023 Input by: WC Dec 04-2023--- (TE) Job Name: RIVER 3-2 STD

F7

Versa-Lam LVL 2.1E 3100 SP BULDING - ₹50" X 9.500" - FASSED

Level: Ground Floor



| Member Inforn | nation | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | | |
|---------------------|-------------|----------------|--|-----|--------------|---------|------|--------------|-------|----------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | L | ive | Dead | | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | | 85 | 63 | | 0 | 0 |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 | 2 | Vertical | 1 | 107 | 69 | | 0 | 0 |
| Deflection LL: | 360 | | OBC 2012(2020 Update) | | | | | | | | |
| Deflection TL: | 240 | Load Sharing: | No | | | | | | | | |
| Importance: | Normal - II | Deck: | Not Checked | | | | | | | | |
| General Load | | Vibration: | Not Checked | | | | | | | | |
| Floor Live: | 40 PSF | | | Bea | rings and Fa | actored | Read | ctions | | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. | Cap. | React D/L Ib | Total | Ld. Case | Ld. Comb. |
| | | | | 1 - | SPF 2.375" | Vert | 8% | 79 / 128 | 207 | L | 1.25D+1.5L |
| | | | | 2 - | SPF 2.438" | Vert | 9% | 86 / 161 | 246 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|-----------|---------------|------------|------------|---------|
| Moment | 558 ft-lb | 5'7 7/8" | 11610 ft-lb | 0.048 (5%) | 1.25D+1.5L | L |
| Unbraced | 558 ft-lb | 5'7 7/8" | 11610 ft-lb | 0.048 (5%) | 1.25D+1.5L | L |
| Shear | 176 l b | 11 7/8" | 5287 lb | 0.033 (3%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.014 (L/9290) | 5'8 1/16" | 0.371 (L/360) | 0.039 (4%) | D | Uniform |
| LL Defl inch | 0.020 (L/6739) | 5'8 5/16" | 0.371 (L/360) | 0.053 (5%) | L | L |
| TL Defl inch | 0.034 (L/3906) | 5'8 1/4" | 0.556 (L/240) | 0.061 (6%) | D+L | L |

Design Notes

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



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USED IN THE DESIGN OF THIS COMPONENT.

| | | | | | | | USED IN | HE DESIGN O | F THIS COMPON |
|------------|---------------|-------------------|------------|------|--------|--------|---------|-------------|---------------|
| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| 1 | Tie-In | 0-0-0 to 11-4-10 | 0-4-8 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Part. Uniform | 0-4-12 to 5-10-12 | | Тор | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 3 | Tie-In | 11-0-4 to 11-4-11 | 1-5-15 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | Self Weight | | | | 5 PLF | | | | |
| | | | | | | | | | |

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

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding Manufacturer Info

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





| Member Inform | lember Information | | | | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | |
|---------------------|--------------------|----------------|-----------------------|------|--------------|--|--------|--------------|-------|----------|------------------|--|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | | Live | Dead | | Snow | Wind | |
| Plies: | 2 | Design Method: | LSD | 1 | Vertical | : | 2512 | 1423 | | 187 | 0 | |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 | 2 | Vertical | : | 3531 | 1724 | | 0 | 0 | |
| Deflection LL: | 360 | | OBC 2012(2020 Update) | | | | | | | | | |
| Deflection TL: | 240 | Load Sharing: | No | | | | | | | | | |
| Importance: | Normal - II | Deck: | Not Checked | | | | | | | | | |
| General Load | | Vibration: | Not Checked | | | | | | | | | |
| Floor Live: | 40 PSF | | | Bear | rings and F | actore | d Read | ctions | | | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. | Сар. | React D/L Ib | Total | Ld. Case | Ld. Comb. | |
| | | | |] 1- | SPF 3.500" | Vert | 76% | 1779 / 3955 | 5734 | L | 1.25D+1.5L +S | |
| Analysis Results | 5 | | | 2 - | SPF 7.688" | Vert | 45% | 2155 / 5297 | 7452 | L | 1.25D+1.5L | |

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|-----------|---------------|-------------|------------|---------|
| Moment | 9264 ft-lb | 4'11 3/4" | 23220 ft-lb | 0.399 (40%) | 1.25D+1.5L | L |
| Unbraced | 9264 ft-lb | 4'11 3/4" | 23220 ft-lb | 0.399 (40%) | 1.25D+1.5L | L |
| Shear | 5215 lb | 1'1" | 10574 lb | 0.493 (49%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.084 (L/1488) | 5'3 9/16" | 0.345 (L/360) | 0.242 (24%) | D | Uniform |
| LL Defl inch | 0.167 (L/745) | 5'3 5/8" | 0.345 (L/360) | 0.483 (48%) | L+0.5S | L |
| TL Defl inch | 0.250 (L/496) | 5'3 9/16" | 0.518 (L/240) | 0.484 (48%) | D+L+0.5S | L |

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 3.5.
- 2 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 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 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be continuously laterally braced.
- 8 Bottom must have sheathing attached or be continuously braced.
- 9 Lateral slenderness ratio based on full section width.



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Notes

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

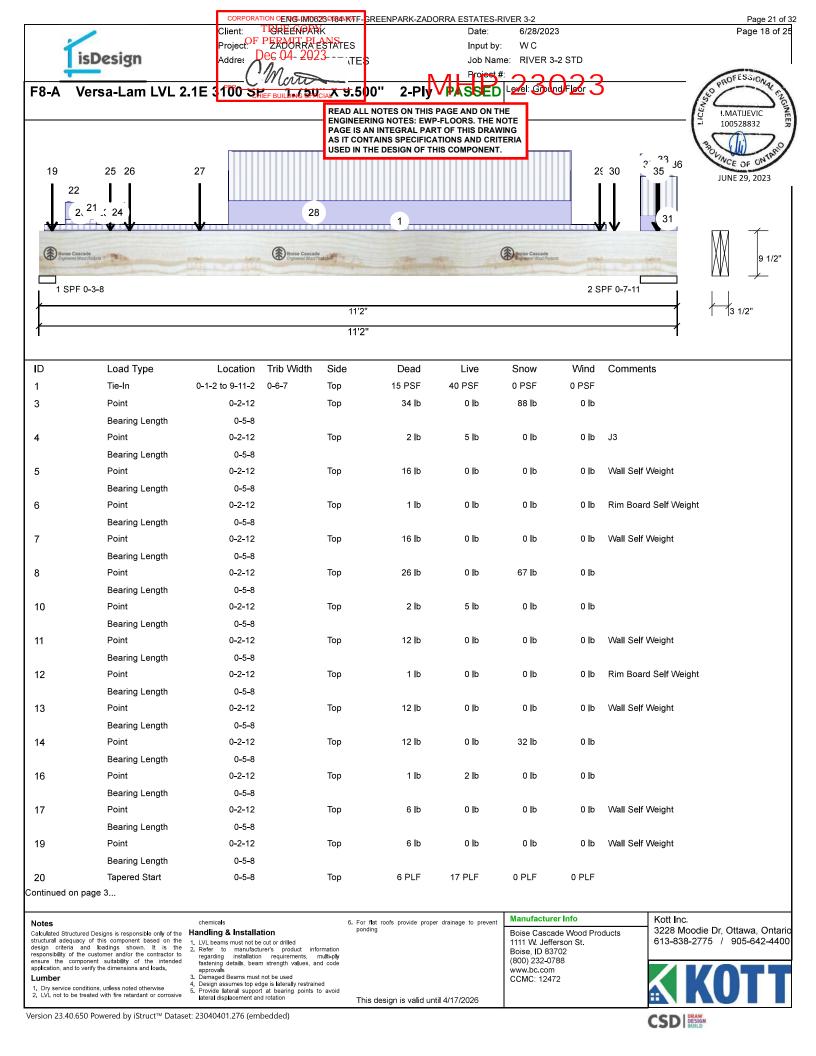
Manufacturer Info

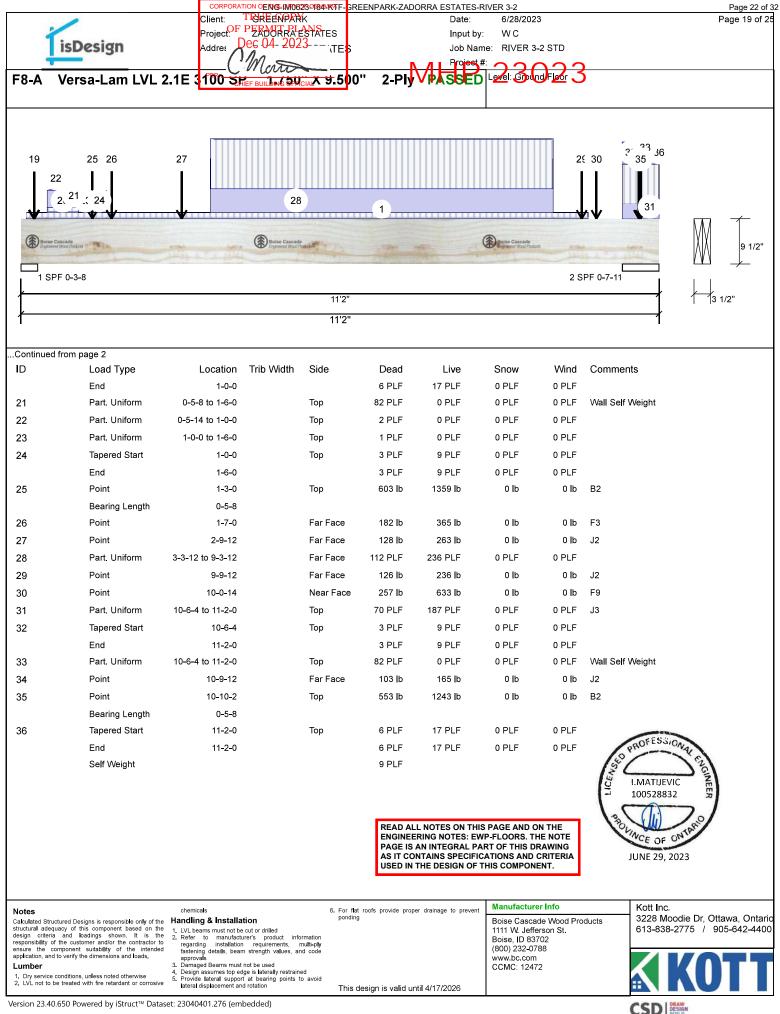
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Page 23 of 32 Page 20 of 25

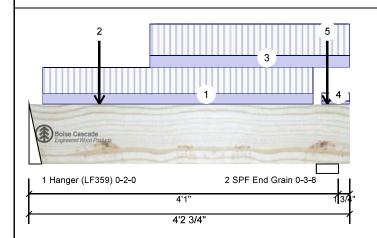
6/28/2023 WС Input by:

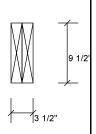
Job Name: RIVER 3-2 STD

low Versa-Lam LVL 2.1E 31 0 SP chief ไม่ได้มีบากสังษ์ 500

2-Ply - PASSED

Level: Gound Floor





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 | 633 | 257 | 0 | 0 |
| 2 | Vertical | 789 | 322 | 0 | 0 |
| l | | | | | |

Analysis Results

| Analysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|---------------|---------------------|----------|-------------------|-------------|------------|---------|
| Neg Moment | -5 ft-lb | 4'1" | 15325 ft-lb | 0.000 (0%) | 1.25D+1.5L | _L |
| Pos Moment | 1313 ft-lb | 2' 7/16" | 23220 ft-lb | 0.057 (6%) | 1.25D+1.5L | L_ |
| Unbraced | 1313 ft-lb | 2' 7/16" | 23220 ft-lb | 0.057 (6%) | 1.25D+1.5L | L_ |
| Shear | 1322 lb | 11 1/2" | 10574 l b | 0.125 (13%) | 1.25D+1.5L | L_ |
| Perm Defl in. | 0.001 (L/32418) | 2' 3/16" | 0.128 (L/360) | 0.011 (1%) | D | Uniform |
| LL Defl inch | 0.004 (L/13011) | 2' 3/16" | 0.128 (L/360) | 0.028 (3%) | L | L_ |
| TL Defl inch | 0.005 (L/9285) | 2' 3/16" | 0.192 (L/240) | 0.026 (3%) | D+L | L_ |
| LL Cant | -0.000 (2L/8671) | Rt Cant | 0.200 (2L/360) | 0.002 (0%) | L | L_ |
| TL Cant | -0.001 (21/6196) | Rt Cant | 0.300 | 0.002 (0%) | D+L | L_ |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. F | React D/L I b | Total | Ld. Case | Ld. Comb. |
|-------------------------|--------|------|--------|----------------------|-------|----------|------------|
| 1 - Hanger | 2.000" | Vert | 17% | 322 / 950 | 1272 | L_ | 1.25D+1.5L |
| 2 - SPF End Grain | 3.500" | Vert | 12% | 403 / 1184 | 1587 | LL | 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 loads must be supported equally by all plies.
- 7 Top must be continuously laterally braced.
- 8 Bottom must have sheathing attached or be continuously braced.
- 9 Lateral slenderness ratio based on full section width.



JUNE 29, 2023

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Dry service conditions, unless noted otherwise
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Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

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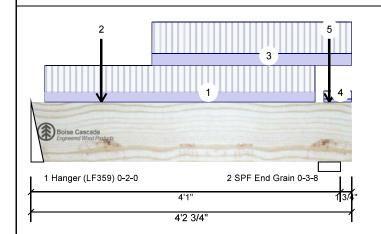


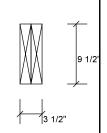


Versa-Lam LVL 2.1E 31 0 SP CHIEF TO LOS DOFFENA 9.500

2-Ply - PASSED

Level: Gound Floor





| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|---------------|------------------|------------|-----------|--------|---------|-------|-------|----------|
| 1 | Part. Uniform | 0-2-3 to 3-9-0 | | Тор | 63 PLF | 167 PLF | 0 PLF | 0 PLF | |
| 2 | Point | 0-11-2 | | Near Face | 89 lb | 236 lb | 0 lb | 0 lb | J1 |
| 3 | Part. Uniform | 1-7-2 to 4-2-12 | | Near Face | 74 PLF | 198 PLF | 0 PLF | 0 PLF | |
| 4 | Tie-In | 3-10-6 to 4-2-12 | 1-3-1 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 5 | Point | 3-11-4 | | Far Face | 24 lb | 50 lb | 0 lb | 0 lb | F5 |
| | Self Weight | | | | 9 PLF | | | | |



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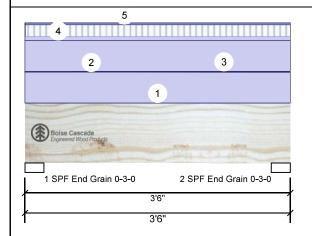
TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE) Mario

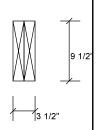
6/28/2023 Input by: WC

Job Name: RIVER 3-2 STD

2-PIVI-VANSSED







| 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 | 33 | 214 | 0 | 0 |
| 2 | Vertical | 33 | 213 | 0 | 0 |
| | | | | | |

Analysis Results

Member Information

| Analysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|---------------|---------------------|----------|---------------|------------|------------|---------|
| Moment | 221 ft-lb | 1'9" | 15093 ft-lb | 0.015 (1%) | 1.25D+1.5L | L |
| Unbraced | 221 ft-lb | 1'9" | 15093 ft-lb | 0.015 (1%) | 1.25D+1.5L | L |
| Shear | 221 l b | 2'5 1/2" | 6873 lb | 0.032 (3%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.001 (L/68494) | 1'9" | 0.104 (L/360) | 0.005 (1%) | D | Uniform |
| LL Defl inch | 0.000 (L/439686) | 1'9" | 0.104 (L/360) | 0.001 (0%) | L | L |
| TL Defl inch | 0.001 (L/59262) | 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% | 267 / 50 | 317 | L | 1.25D+1.5L |
| 2 - SPF End Grain | 3.000" | Vert | 4% | 266 / 50 | 316 | L | 1.25D+1.5L |



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

7 Lateral slenderness ratio based on full section width.



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| ID | Load Type | Location Trib Widtl | h Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|---------------------|-----------|--------|-------|-------|-------|------------------|
| 1 | Part. Uniform | 0-0-0 to 3-6-0 | Тор | 51 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 2 | Tapered Start | 0-0-0 | Near Face | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| | End | 3-6-0 | | 0 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 3 | Part. Uniform | 0-0-0 to 3-6-0 | Near Face | 51 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |

Continued on page 2...

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

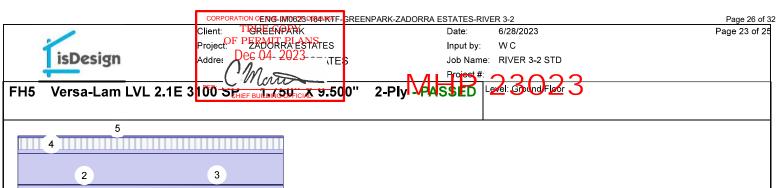
6. For flat roofs provide proper drainage to prevent ponding

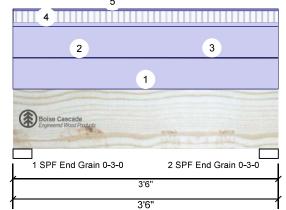
Manufacturer Info Boise Cascade Wood Products

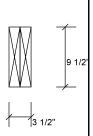
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| Continued | from | nage | 1 | |
|-----------|------|------|---|--|
| | | | | |

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|----------------|------------|-----------|-------|--------|-------|-------|-----------------------|
| 4 | Tapered Start | 0-0-0 | | Near Face | 7 PLF | 19 PLF | 0 PLF | 0 PLF | |
| | End | 3-6-0 | | | 7 PLF | 19 PLF | 0 PLF | 0 PLF | |
| 5 | Part. Uniform | 0-0-0 to 3-6-0 | | 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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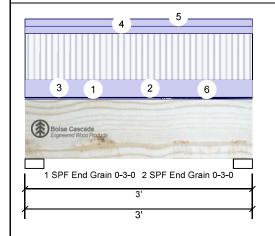
TRREEMPRAK Project: PERMIT PLANS

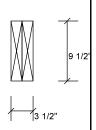
6/28/2023 Date: WС Input by:

Job Name: RIVER 3-2 DC

2-PIVI VANSSED







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

| Unfactored | Reactions | UNPAT | TERNED | b | (Uplift |) |
|------------|-----------|-------|--------|---|---------|---|
| | | | | | | |

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 394 | 289 | 0 | 0 |
| 2 | Vertical | 395 | 290 | 0 | 0 |
| | | | | | |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|--------------------|----------|---------------|------------|------------|---------|
| Moment | 547 ft-lb | 1'6" | 23220 ft-lb | 0.024 (2%) | 1.25D+1.5L | L |
| Unbraced | 547 ft-lb | 1'6" | 23220 ft-lb | 0.024 (2%) | 1.25D+1.5L | L |
| Shear | 756 lb | 1' 1/2" | 10574 lb | 0.072 (7%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.000 (L/70390) | 1'6" | 0.088 (L/360) | 0.005 (1%) | D | Uniform |
| LL Defl inch | 0.001 (L/51678) | 1'6" | 0.088 (L/360) | 0.007 (1%) | L | L |
| TL Defl inch | 0.001 (L/29800) | 1'6" | 0.131 (L/240) | 0.008 (1%) | D+L | L |

Bearings and Factored Reactions

| Dearings | ana ra | ctorcu | itcat | .00113 | | | |
|-------------------------|--------|--------|-------|----------------------|-------|----------|------------|
| Bearing | Length | Dir. | Cap. | React D/L I b | Total | Ld. Case | Ld. Comb. |
| 1 - SPF End Grain | 3.000" | Vert | 9% | 361 / 590 | 952 | L | 1.25D+1.5L |
| 2 - SPF End Grain | 3.000" | Vert | 9% | 363 / 592 | 955 | L | 1.25D+1.5L |

I.MATIJEVIC 100528832

WCE OF

JUNE 29, 2023



- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be 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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| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|-----------------|---------------|----------------|------------|-----------|--------|---------|-------|-------|-----------------------|
| 1 | Tapered Start | 0-0-0 | | Near Face | 0 PLF | 1 PLF | 0 PLF | 0 PLF | |
| | End | 1-9-10 | | | 0 PLF | 1 PLF | 0 PLF | 0 PLF | |
| 2 | Part. Uniform | 0-0-0 to 3-0-0 | | Near Face | 3 PLF | 0 PLF | 0 PLF | 0 PLF | Rim Board Self Weight |
| 3 | Part. Uniform | 0-0-0 to 3-0-0 | | Near Face | 98 PLF | 261 PLF | 0 PLF | 0 PLF | J3 |
| Continued on pa | ge 2 | | | | | | | | |

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

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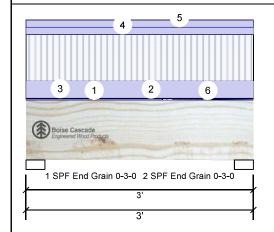
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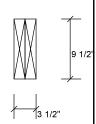


Dec 04- 2023 -- TES Job Name: RIVER 3-2 DC

Martin Level: Gound Floor 2-PIVI -PUSSED FH5



Self Weight



| Continued from | page 1 | | | | | | | | |
|----------------|---------------|----------------|------------|-----------|--------|-------|-------|-------|------------------|
| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| 4 | Part, Uniform | 0-0-0 to 3-0-0 | | Тор | 41 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 5 | Part. Uniform | 0-0-0 to 3-0-0 | | Near Face | 41 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 6 | Tapered Start | 1-9-10 | | Near Face | 2 PLF | 5 PLF | 0 PLF | 0 PLF | |
| | End | 3-0-0 | | | 1 PLF | 1 PLF | 0 PLF | 0 PLF | |

9 PLF



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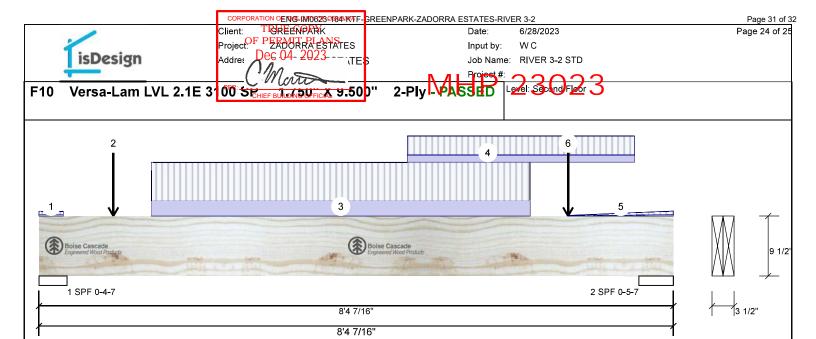
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| Member Inforn | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | | | |
|---------------------|--|---------------------------------|-----------------------|-------|-------------|------|------|--------------|----------------|------------|
| Type: | Girder | Application: | Floor (Residential) | Brg | Direction | Li | ve | Dead | Snow | Wind |
| Plies: | 2 | Design Method: | LSD | 1 | Vertical | 9 | 27 | 411 | 0 | 0 |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 | 2 | Vertical | 11 | 21 | 484 | 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 | Bearings and Factored Reactions | | | | | | | | |
| Dead: | 15 PSF | | | Bea | ring Length | Dir. | Сар. | React D/L Ib | Total Ld. Case | Ld. Comb. |
| | | | | 1 - 9 | SPF 4.438" | Vert | 20% | 513 / 1391 | 1904 L | 1.25D+1.5L |
| | | | | 2 - 9 | SPF 5.464" | Vert | 19% | 605 / 1682 | 2287 L | 1.25D+1.5L |

Analysis Results

| Analysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|-----------|---------------|-------------|------------|---------|
| Moment | 4195 ft-lb | 4'5 1/2" | 23220 ft-lb | 0.181 (18%) | 1.25D+1.5L | L |
| Unbraced | 4195 ft-lb | 4'5 1/2" | 23220 ft-lb | 0.181 (18%) | 1.25D+1.5L | L |
| Shear | 2073 lb | 7'1 1/2" | 10574 lb | 0.196 (20%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.018 (L/5039) | 4'2 3/8" | 0.256 (L/360) | 0.071 (7%) | D | Uniform |
| LL Defl inch | 0.042 (L/2179) | 4'2 9/16" | 0.256 (L/360) | 0.165 (17%) | L | L |
| TL Defl inch | 0.061 (L/1521) | 4'2 7/16" | 0.384 (L/240) | 0.158 (16%) | D+L | L |

Design Notes

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



JUNE 29, 2023

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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|-----|--|---------------|------------------|---------------------|-----------|---------------|---------|--------------|-------|----------|
| TI | D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| 1 | | Tie-In | 0-0-0 to 0-3-14 | 0-6-9 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | 2 | Point | 0-11-12 | | Near Face | 81 l b | 200 lb | 0 l b | 0 lb | J3 |
| 3 | 3 | Part. Uniform | 1-5-12 to 6-5-12 | | Near Face | 97 PLF | 241 PLF | 0 PLF | 0 PLF | |
| 4 | ļ | Part. Uniform | 4-10-5 to 7-10-5 | | Тор | 45 PLF | 120 PLF | 0 PLF | 0 PLF | |
| 5 | 5 | Tie-In | 6-11-12 to 8-4-7 | 0-0-14 to 0-6-14 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |

Continued on page 2...

Notes

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

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

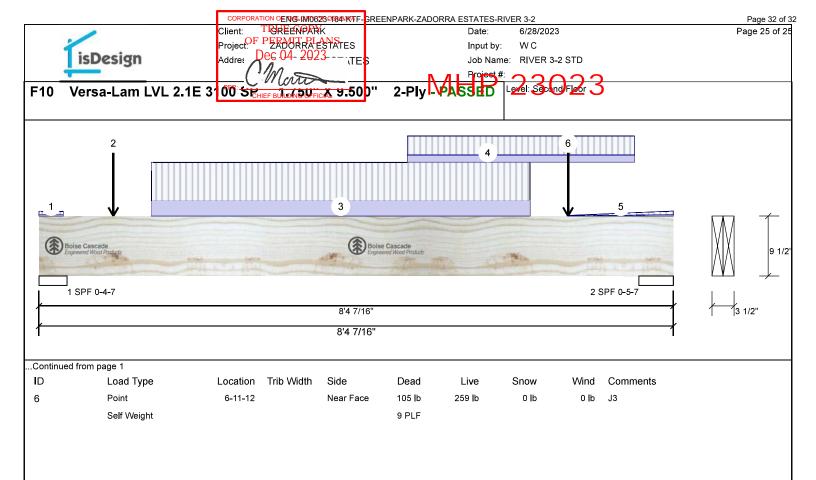
Manufacturer Info Boise Cascade Wood Products

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

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



CSD DESIGN





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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

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



