

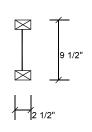
CORPORATION OF ING. INTO 623 OF SEWIT - GREENPARK-ZADORRA ESTATES-RIVER 3-3 TRREEMPARK Project: PERMIT PLANS Dec 04-2023--- (TE)

Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

F1 AJS 140 9.500"





Member Information

| Туре: | 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: Building Code:

NBCC 2015

Load Sharing: Deck:

Vibration:

OBC 2012(2020 Update)

LSD

Not Checked 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 |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. F | React D/L I b | 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 |

and Silvery

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"
- 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.

| 13 |
|------------------------|
| EMATURNIC E DOSSERRE S |
| 18 000 |
| JUNE 29, 2023 |

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

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|------------------|------------|------|--------|--------|-------|-------|----------|
| 1 | Tie-In | 0-0-0 to 1-4-10 | 1-4-15 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Part. Uniform | 0-4-12 to 1-4-10 | | Тор | 7 PLF | 0 PLF | 0 PLF | 0 PLF | |

Notes

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

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

 1. Noist flanges must not be 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.





CORPORATION OF ING. INTO 623 OF SEWIT - GREENPARK-ZADORRA ESTATES-RIVER 3-3 TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE) Addres

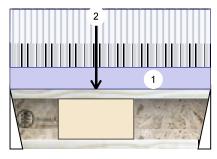
Date: 6/28/2023 Input by: WC

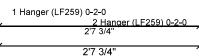
Job Name: RIVER 3-3 STD

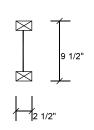
F2 **AJS 140**











Member Information

| ı | Type: | Girder | Application: | Floor (Residential) |
|---|---------------------|-------------|----------------|-----------------------|
| ı | Plies: | 1 | Design Method: | LSD |
| ı | Moisture Condition: | Dry | Building Code: | NBCC 2015 |
| ı | Deflection LL: | 360 | | OBC 2012(2020 Update) |
| ı | Deflection TL: | 240 | Load Sharing: | No |
| ı | Importance: | Normal - II | Deck: | Not Checked |
| ı | General Load | | Vibration: | Not Checked |
| ı | Floor Live: | 40 PSF | | |
| ı | Dead: | 15 PSF | | |
| ı | | | | |
| | | | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 229 | 86 | 0 | 0 |
| 2 | Vertical | 179 | 67 | 0 | 0 |
| | | | | | |

Analysis Results

| Ana l ysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|-------------------|--------------------|----------|---------------|-------------|------------|---------|
| Moment | 426 ft-lb | 1'1 5/8" | 4095 ft-lb | 0.104 (10%) | 1.25D+1.5L | L |
| Unbraced | 426 ft-lb | 1'1 5/8" | 4095 ft-lb | 0.104 (10%) | 1.25D+1.5L | L |
| Shear | 444 lb | 1 1/4" | 1830 lb | 0.243 (24%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.002 (L/15594) | 1'1 5/8" | 0.081 (L/360) | 0.023 (2%) | D | Uniform |
| LL Defl inch | 0.005 (L/5837) | 1'1 5/8" | 0.081 (L/360) | 0.062 (6%) | L | L |
| TL Defl inch | 0.007 (L/4247) | 1'1 5/8" | 0.122 (L/240) | 0.057 (6%) | D+L | L |

Bearings and Factored Reactions

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

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: 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 lb | 0 lb | 0 lb | J2 |

Notes

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

- Handling & Installation

 1. Lioist flanges must not be cut or drilled

 2. Refer to latest copy of the Lioist product information details for framing details, stiffener tables, web hole chart, bridging details, militurely fastering details and handling/erection details

 3. Damaged bloists must not be used

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

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





CORPORATION OF ING. INTO 623 OF SEWIT - GREENPARK-ZADORRA ESTATES-RIVER 3-3 TRREEMPRAK Project: PERMIT PLANS

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

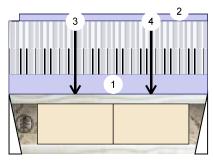
Job Name: RIVER 3-3 STD

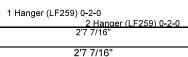
AJS 140

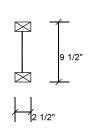
Member Information

9.500" - P/









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 | | | | |
| e) | 2 | Vertical | 235 | 107 | 0 | 0 | | | | |

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

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



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USED IN THE DESIGN OF THIS COMPONENT.

Design Notes

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

| ID | Load Type | Location | Trib Width | Side | Dead | Live | 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 l b | 0 l b | 0 lb | J1 |
| 4 | Point | 1-10-8 | | Far Face | 81 lb | 181 b | 0 l b | 0 b | J1 |

L

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

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

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

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

Manufacturer Info

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Kott Inc.

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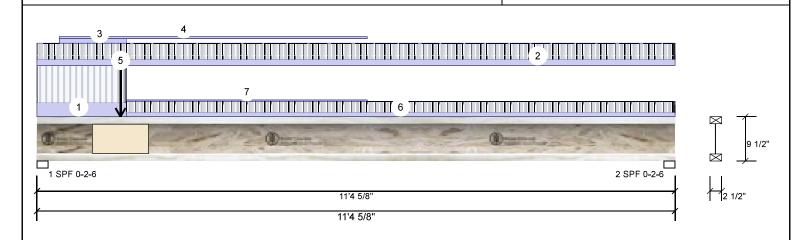
CORPORATION OENIGE-IN1002301889-1KTF-GREENPARK-ZADORRA ESTATES-RIVER 3-3 TRREEMPARK Project: PERMIT PLANS Dec 04-2023--- (TE) Addres

Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

F3 **AJS 140** 9.500' - PAS





| Member Inform | nation | | | Unf | actored Rea | actions | UNPA | TTERNED II | b (Uplift) | |
|--------------------|-------------|----------------|-----------------------|-----|--------------|---------|--------|----------------------|----------------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | | Live | Dead | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | | 503 | 231 | 0 | 0 |
| Moisture Condition | : Dry | Building Code: | NBCC 2015 | 2 | Vertical | | 270 | 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 Fa | actored | d Reac | tions | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. | Cap. | React D/L I b | Total Ld. Case | Ld. Comb. |
| | | | | 1 - | SPF 2.375" | Vert | 63% | 288 / 755 | 1043 L | 1.25D+1.5L |
| Analysis Desult | | | | 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 lb | 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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| T DOLLO | 4 Bottom hange must be laterally braced at a maximum of 9 10 3/4 0.c. | | | | | | | | |
|---------|---|-------------------|------------|----------|----------------|--------|-------|-------|----------|
| ID | 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.

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

This design is valid until 4/17/2026

Manufacturer Info Kott Inc.

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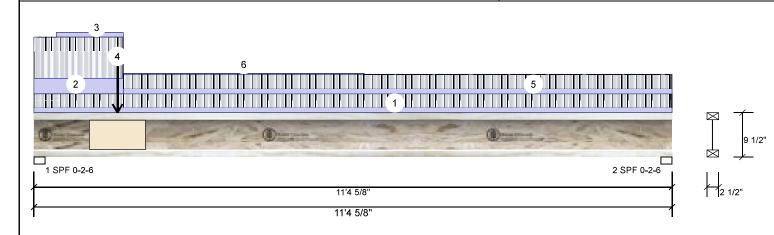


Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

AJS 140 F₃-A

9.500 - ----



| Member Inform | nation | | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | |
|---------------------|-------------|----------------|-----------------------|--|-------------|--------------|--------------|----------------|------------|--|--|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | Live | Dead | Snow | Wind | | |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | 467 | 200 | 0 | 0 | | |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 | 2 | Vertical | 249 | 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 | | | | | | | | |
| Floor Live: | 40 PSF | | | Bear | ings and Fa | actored Read | ctions | | | | |
| Dead: | 15 PSF | | | Bea | ring Length | Dir. Cap. | React D/L Ib | Total Ld. Case | Ld. Comb. | | |
| | | | | 1 - 9 | SPF 2.375" | Vert 57% | 250 / 700 | 950 L | 1.25D+1.5L | | |
| | | | | 2 - 9 | SPF 2.375" | Vert 30% | 122 / 373 | 495 L | 1.25D+1.5L | | |

Analysis Results

| Ana l ysis | Actual | 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 | 0-4-12 to 1-7-2 | | Тор | 6 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 4 | Point | 1-5-14 | | Near Face | 100 l b | 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 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.

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





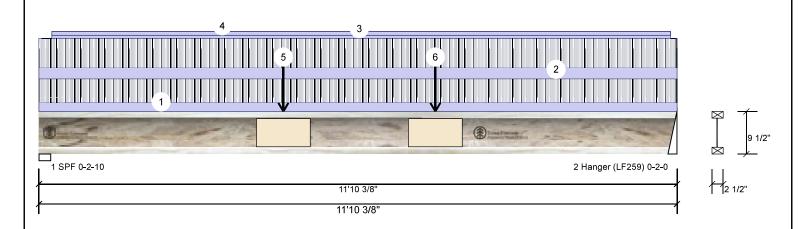
CORPORATION OF ING. INTO 623 OF SEWIT - GREENPARK-ZADORRA ESTATES-RIVER 3-3 TRREEMPARK Project: PERMIT PLANS Dec 04- 2023--- _{(TE}\$

Date: 6/28/2023 WC Input by:

Job Name: RIVER 3-3 STD

F₃-B **AJS 140**

9.500° - RA



| Member Inform | Member Information | | | | | | | | | |
|---------------------|--------------------|--|--|--|--|--|--|--|--|--|
| Туре: | Girder | | | | | | | | | |
| Plies: | 1 | | | | | | | | | |
| Moisture Condition: | Dry | | | | | | | | | |
| Deflection LL: | 360 | | | | | | | | | |
| Deflection TL: | 240 | | | | | | | | | |
| Importance: | Normal - II | | | | | | | | | |
| | | | | | | | | | | |

General Load Floor Live: 40 PSF 15 PSF Dead:

Application: 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 | 367 | 183 | 0 | 0 |
| 2 | Vertical | 365 | 182 | 0 | 0 |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. | React D/L Ib | Total | Ld. Case | Ld. Comb. |
|---------------|--------|------|------|--------------|-------|----------|------------|
| 1 - SPF | 2.625" | Vert | 46% | 228 / 551 | 779 | L | 1.25D+1.5L |
| 2 - Hanger | 2.000" | Vert | 49% | 227 / 547 | 774 | L | 1.25D+1.5L |

Analysis Results

| Analysis | Actua l | 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 l b | 11'9 1/8" | 1830 lb | 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.



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

| ID | 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 b | 38 lb | 0 l b | 0 l b | F1 |
| 6 | Point | 7-4-7 | | Near Face | 19 lb | 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 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

This design is valid until 4/17/2026

USED IN THE DESIGN OF THIS COMPONENT.

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

Kott Inc.





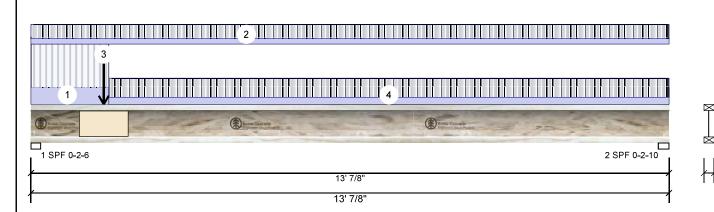
AJS 140

F4

CORPORATION OENIGE-IN1002301889-1KTF-GREENPARK-ZADORRA ESTATES-RIVER 3-3 TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE) Addres 9.500' - PAS

Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD



| Member Infori | mation | | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | | |
|--------------------|--|----------------|-----------------------|--|--------------|-------------|--------------|----------------|-------------|--|--|--|
| Type: | Girder | Application: | Floor (Residential) | Brg | Direction | Live | Dead | Snow | Wind | | | |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | 536 | 201 | 0 | 0 | | | |
| Moisture Condition | 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 | | | Bear | rings and F | actored Rea | ctions | | | | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. Cap. | React D/L lb | Total Ld. Case | e 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

| Ana l ysis | 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.

| ID | 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 lb | 0 l b | 0 l b | F2 |
| 4 | Tie-In | 1-7-2 to 13-0-14 | 0-7-7 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |

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

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the 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.





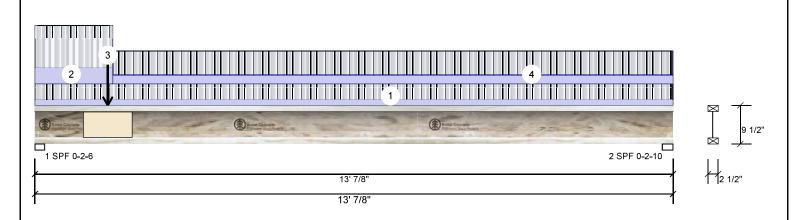
CORPORATION OF ING AND 623 OF SECTION OF THE STATES - RIVER 3-3 TRREEMPARK Project: PERMIT PLANS Dec 04-2023--- _{(TE}\$

Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

AJS 140

9.500" - RA



| Member Inform | nation | | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | | |
|-------------------------|-------------|--------------------------|-----------------------|--|--------------|-----------|------------------|---------|----------|------------|--|--|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | Live | Dead | t | Snow | Wind | | |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | 546 | 204 | 1 | 0 | 0 | | |
| Moisture Condition: Dry | | Building Code: NBCC 2015 | | 2 | Vertical | 370 | 139 | 9 | 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 R | eactions | | | | | |
| Dead: | 15 PSF | | | Bea | aring Length | Dir. C | ap. React D/L lt | o Total | Ld. Case | Ld. Comb. | | |
| | | | | 1 - | SPF 2.375" | Vert 6 | 5% 256 / 818 | 3 1074 | L | 1.25D+1.5L | | |
| | | | | 2 - | SPF 2.625" | Vert 4 | 3% 174 / 55 | 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.



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 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 lb | 179 l b | 0 lb | 0 l b | F2 |
| | 4 | Tie-In | 1-7-2 to 13-0-14 | 0-9-11 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| ı | | | | | | | | | | |

Notes

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

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

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

 3. Damaged Jioists must not be used

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

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

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

Kott Inc.

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



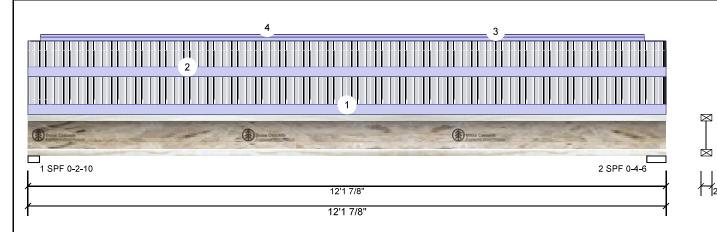
CORPORATION OENIGE-IN1002301889-1KTF-GREENPARK-ZADORRA ESTATES-RIVER 3-3 TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE) low

Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

AJS 140 F4-B

9.500° - FASSED



| Member Inform | nation | | | 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 | : Dry | Building Code: | NBCC 2015 | 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 | | | Bear | ings and Fa | actored Rea | ctions | | | | | |
| Dead: | 15 PSF | | | Bea | ring Length | Dir. Cap. | React D/L Ib | Total Ld. Case | Ld. Comb. | | | |
| | | | | 1 - 9 | SPF 2.625" | Vert 31% | 152 / 370 | 522 L | 1.25D+1.5L | | | |
| | | | | 2 - 9 | SPF 4.375" | Vert 29% | 154 / 380 | 534 L | 1.25D+1.5L | | | |

Analysis Results

| Ana l ysis | Actual | 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 | |

Notes

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

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be cut or drilled

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

 3. Damaged Juoists must not be used

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

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

Manufacturer Info

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

Kott Inc.

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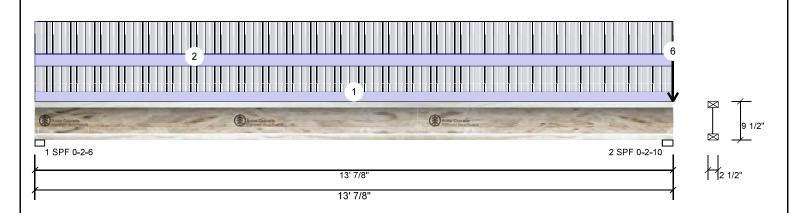
CORPORATION OENIGE-IN1002301889-1KTF-GREENPARK-ZADORRA ESTATES-RIVER 3-3 TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE) low

Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

AJS 140 F4-C

9.500 - FASSED



| Member Inform | nation | | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | | |
|-------------------------|-------------|--------------------------|-----------------------|--|-------------|-------------|--------------|----------------|------------|--|--|--|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | Live | Dead | Snow | Wind | | | |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | 312 | 117 | 0 | 0 | | | |
| Moisture Condition: Dry | | Building Code: NBCC 2015 | | 2 | Vertical | 477 | 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 | ings and Fa | actored Rea | ctions | | | | | |
| Dead: | 15 PSF | | | Bea | ring Length | Dir. Cap. | React D/L Ib | Total Ld. Case | Ld. Comb. | | | |
| | | | | 1 - 9 | SPF 2.375" | Vert 37% | 146 / 468 | 614 L | 1.25D+1.5L | | | |
| A l | | | | 2 - 3 | SPF 2.625" | Vert 59% | 279 / 716 | 995 L | 1.25D+1.5L | | | |

Analysis Results

| Analysis | 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 lb | 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.



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 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 | 32 lb | 85 l b | 0 lb | 0 l b | J3 |
| | Bearing Length | 0-1-8 | | | | | | | |
| 4 | Point | 13-0-14 | | Тор | 29 lb | 79 l b | 0 lb | 0 l b | J3 |
| | Bearing Length | 0-1-8 | | | | | | | |
| 5 | Point | 13-0-14 | | Тор | 35 lb | 0 lb | 0 l b | 0 l b | Wall Self Weight |
| Continued on page | e 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 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.





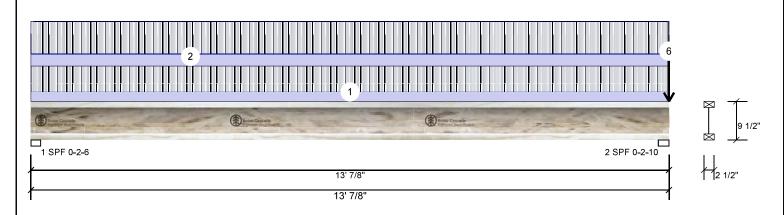
TREEMPREK Project: PERMIT PLANS Dec 04- 2023 -- TES Addres Morto

Input by: WC

Job Name: RIVER 3-3 STD

F4-C **AJS 140**

9.500" - PASSED



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

| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|----------------|----------|------------|------|---------------|--------------|------|--------------|------------------|
| | Bearing Length | 0-1-8 | | | | | | | |
| 6 | Point | 13-0-14 | | Тор | 10 l b | 0 l b | 0 lb | 0 l b | Wall Self Weight |
| | Bearing Length | 0-1-8 | | | | | | | |



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Notes

Notes

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Lumber

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

- Handling & Installation

 1. Lioist flanges must not be cut or drilled

 2. Refer to latest copy of the Lioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-pt fastering details and handling/erection detail

 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.

 This is a 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 is a support at bearing points to avoid lateral support at bearing points to avoid lateral displacement and rotation.

Manufacturer Info

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

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

Kott Inc.







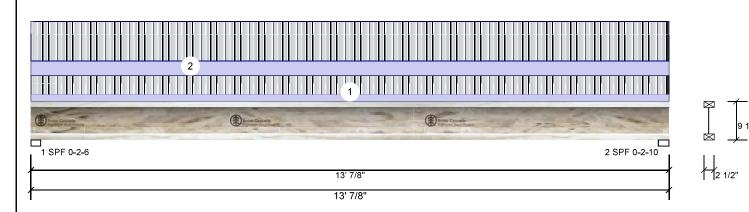
CORPORATION OF ING AND 623 OF SECTION OF THE STATES - RIVER 3-3 TRREEMPARK Project: PERMIT PLANS Dec 04-2023--- (TE)

Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

AJS 140 F4-D

9.500° - RA



| Member Inf | ormation | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | |
|----------------|-------------|----------------|--|-----|-----------|------|------|------|------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | Live | Dead | Snow | Wind |
| Plies: | 1 | Design Method: | LSD | 1 | Vertical | 296 | 111 | 0 | 0 |
| Moisture Cond | lition: 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 | | | | | | |

Bearings and Factored Reactions Bearing Length Dir. Cap. React D/L lb Total Ld. Case 35% 139 / 443 1 - SPF 2.375" Vert 582 L

2 - SPF 2.625"

Vert

34%

139 / 445

584 L

Analysis Results

General Load

Floor Live:

Dead:

| Ana l ysis | Actual | 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 l b | 12'11" | 1830 l b | 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 |

Vibration:

Desig

- 1 Pr 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.

40 PSF

15 PSF

| gn Notes rovide support to prevent lateral movement and rotation at the end bearings. Lateral support |
|---|
| an Notes |
| |
| Defl inch 0.229 (L/670) 6'6 5/16" 0.639 (L/240) 0.358 (36%) D+L L |
| Defl inch 0.167 (L/921) 6'6 5/16" 0.426 (L/360) 0.391 (39%) L L |
| m Defl in. 0.062 (L/2456) 6'6 5/16" 0.426 (L/360) 0.147 (15%) D Uniform |
| ar 570 lb 12'11" 1830 lb 0.311 (31%) 1.25D+1.5L L |

Not Checked

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 13-0-14 | 0-4-6 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | | |
| 2 | Tie-In | 0-0-0 to 13-0-14 | 0-9-4 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | | |

Notes

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the 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

Ld. Comb.

1.25D+1.5L

1.25D+1.5L







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

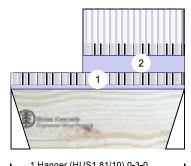
6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

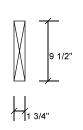
F5

Versa-Lam LVL 2.1E 3100 SP BULDN 3-450 X 9.500" - F





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



Member Information

| Type: | Girder | Application: | Floor (Residential) |
|---------------------|-------------|----------------|-----------------------|
| Plies: | 1 | Design Method: | LSD |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 |
| Deflection LL: | 360 | | OBC 2012(2020 Update) |
| Deflection TL: | 240 | Load Sharing: | No |
| Importance: | Normal - II | Deck: | Not Checked |
| General Load | | Vibration: | Not Checked |
| Floor Live: | 40 PSF | | |
| Dead: | 15 PSF | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

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

Analysis Results

| Ana l ysis | 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 |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. R | eact D/L I b | Total | Ld. Case | Ld. Comb. |
|---------|--------|------|--------|---------------------|-------|----------|------------|
| 1 - | 3.000" | Vert | 2% | 30 / 75 | 105 | L | 1.25D+1.5L |
| Hanger | | | | | | | |
| 2 - | 3.000" | Vert | 4% | 54 / 150 | 204 | L | 1.25D+1.5L |
| Hanger | | | | | | | |



- 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.



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| | made no laterally midden | | | | | | | | |
|------------|--------------------------|-----------------|------------|------|--------|--------|-------|-------|----------|
| I D | 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. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

Kott Inc.

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







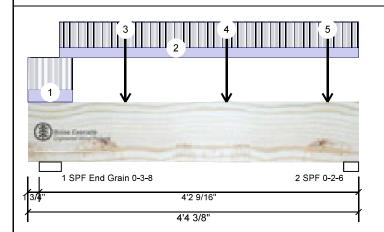
TRRECOPARK Project: PERMIT PLANS

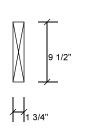
Date: 6/28/2023 Input by: W C

Job Name: RIVER 3-3 STD

F6

Versa-Lam LVL 2.1E 3100 SP BULDN 3-450 X 9.500" - F





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

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

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

Analysis Results

| 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 |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. F | React D/L I b | Total | Ld. Case | Ld. Comb. |
|-------------------------|--------|------|--------|----------------------|-------|----------|------------|
| 1 - SPF End Grain | 3.500" | Vert | 15% | 244 / 737 | 981 | LL | 1.25D+1.5L |
| 2 - SPF | 2.375" | Vert | 50% | 316 / 972 | 1288 | _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 Top must be continuously laterally braced.
- 4 Bottom must have sheathing attached or be continuously braced.

| I D | 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 l b | 0 lb | 0 l b | J3 |

Continued on page 2...

Notes

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

Kott Inc.

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

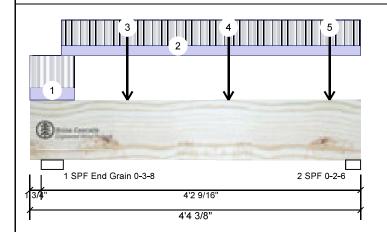


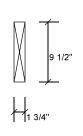


Job Name: RIVER 3-3 STD

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

Morto Versa-Lam LVL 2.1E 3100 SP 300 X 9.500" - P





..Continued from page 1

F6

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



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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. 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

For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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www.bc.com CCMC: 12472

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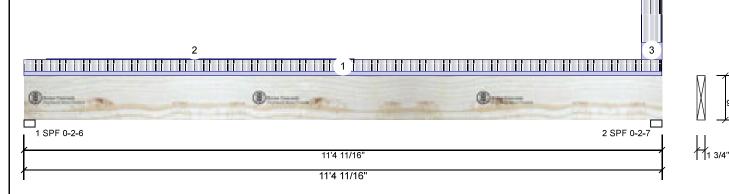
TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE)

6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

F7

Versa-Lam LVL 2.1E 3100 SPBULDN1-750" X 9.500" -



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 1 Design Method: LSD Vertical 85 63 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertica 107 69 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. 79 / 128 1 - SPF 2.375" Vert 8% 207 L 1.25D+1.5L 1.25D+1.5L 2 - SPF 2.438" 9% 86 / 161 246 L

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.



Vert

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.

| | | | | | | | 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 | | | | |
| | | | | | | | | | |

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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

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

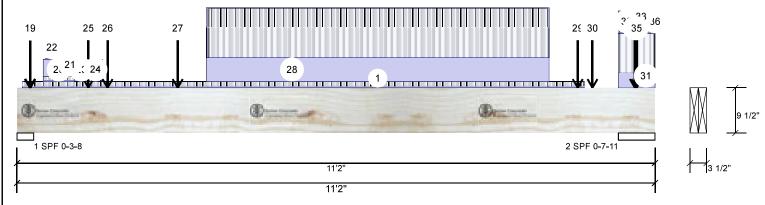
www.bc.com CCMC: 12472

Manufacturer Info

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







| Member Inforn | nation | | | Unfa | ctored Rea | actions | s UNP | ATTERNED II | b (Uplift) | |
|---------------------------------------|--------------------|------------------------|------------------------------------|-------|---------------------------|--------------|-------------|-------------------------------------|--------------------------|-------------------------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | | Live | Dead | Snow | Wind |
| Plies: | 2 | Design Method: | LSD | 1 | Vertical | | 2512 | 1362 | 30 | 0 |
| Moisture Condition: Deflection LL: | Dry 360 | Building Code: | NBCC 2015 OBC 2012(2020 Update) | 2 | Vertical | | 3531 | 1724 | 0 | 0 |
| Deflection TL: Importance: | 240 Normal - II | Load Sharing: Deck: | No Not Checked | | | | | | | |
| General Load Floor Live: | 40 PSF | Vibration: | Not Checked | Beari | ings and F | actore | d Read | ctions | | |
| Dead: | 15 PSF | | | | ring Length SPF 3.500" | Dir. Vert | Cap. 73% | React D/L l b 1703 / 3798 | Total Ld. Case 5501 L | Ld. Comb. 1.25D+1.5L +S |
| Analysis Result | s | ' | | 2 - 8 | 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 l b | 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

1. UVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-rily fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

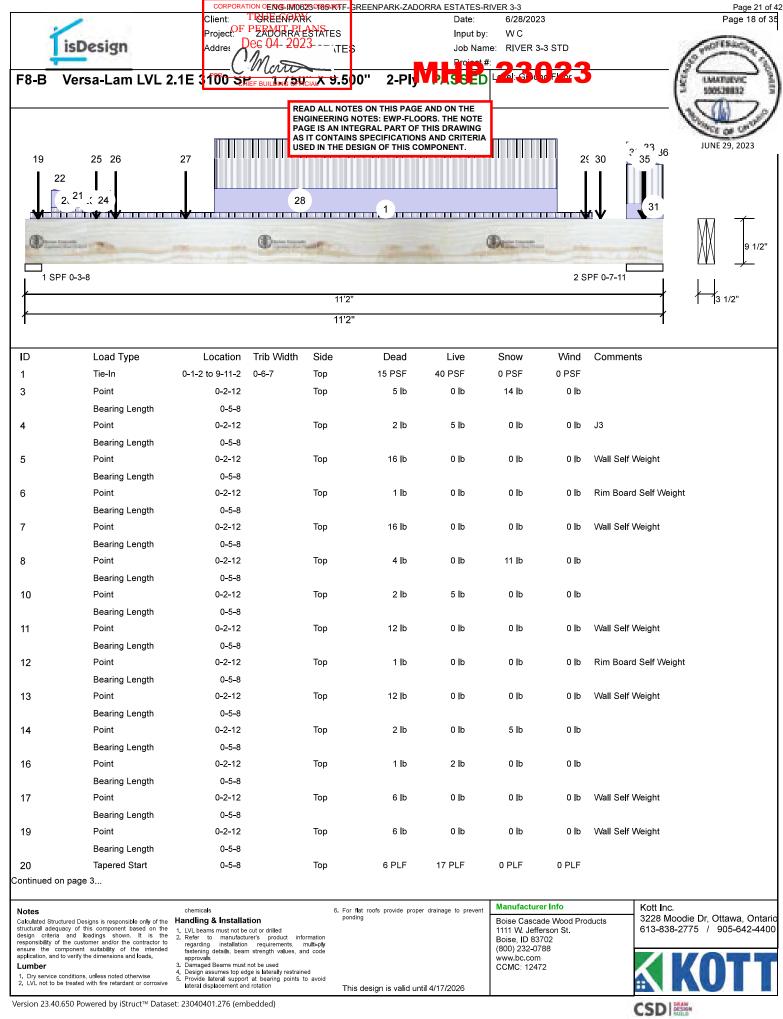
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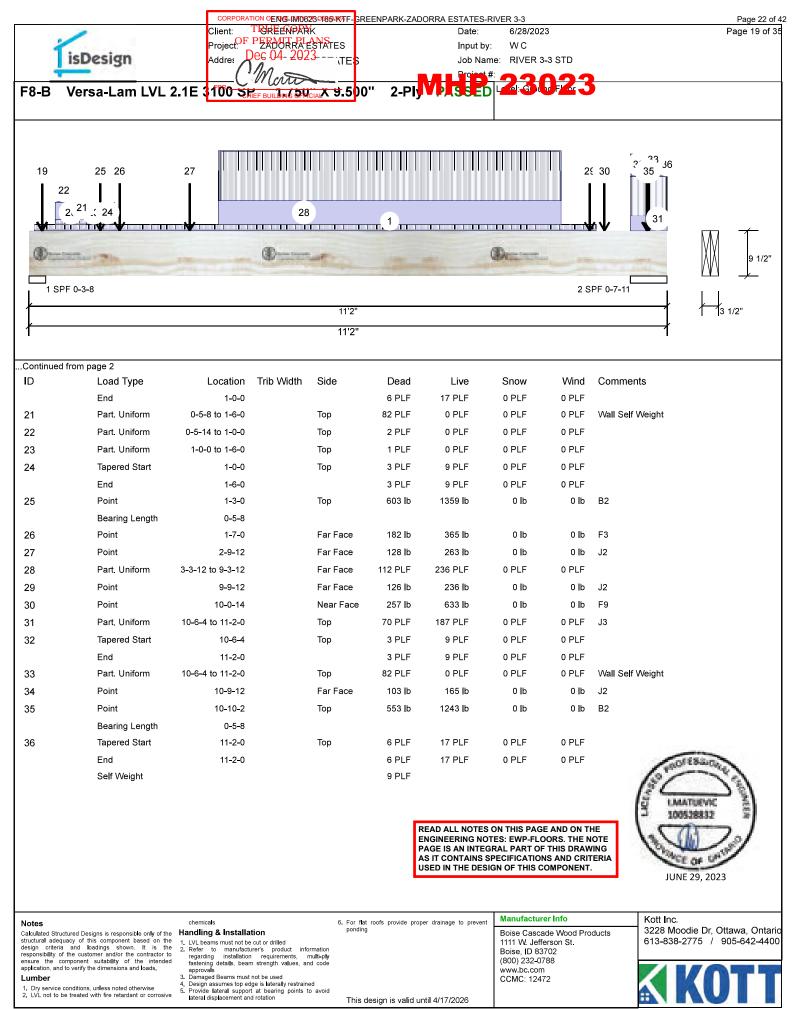
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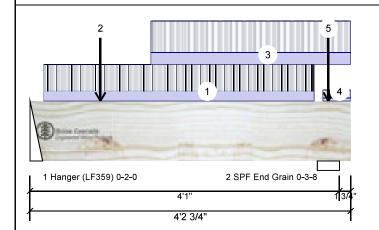
CSD DESIGN

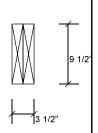
TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE)

6/28/2023 WC Input by:

Job Name: RIVER 3-3 STD

Versa-Lam LVL 2.1E 3100 SHEF BULLING SPUCIALX 9.500"





Member Information

| Girder | Application: | Floor (Residential) |
|-------------|---------------------------------------|--|
| 2 | Design Method: | LSD |
| Dry | Building Code: | NBCC 2015 |
| 360 | | OBC 2012(2020 Update) |
| 240 | Load Sharing: | No |
| Normal - II | Deck: | Not Checked |
| | Vibration: | Not Checked |
| 40 PSF | | |
| 15 PSF | | |
| | 2 Dry 360 240 Normal - II | 2 Design Method: Dry Building Code: 360 240 Load Sharing: Normal - II Deck: Vibration: |

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 (2L/6196) | Rt Cant | 0.300 (2L/240) | 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
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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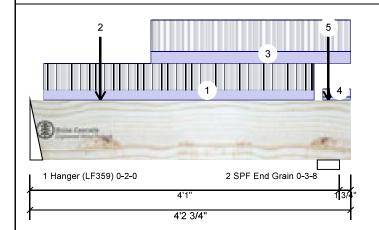


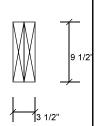
TRKEENPARK Project: PERMIT PLANS Dec 04-2023--- (TE) Addres Mario

Date: 6/28/2023 Input by: $W\, C$

Job Name: RIVER 3-3 STD

Versa-Lam LVL 2.1E 3100 SHEF BUILDING SPUCIALX 9.500"





| 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 l b | 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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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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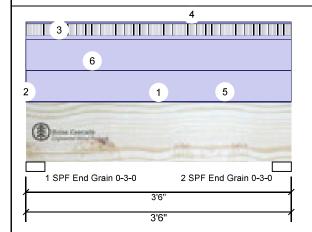


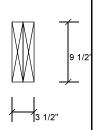


TRREEMPRAK Project: PERMIT PLANS

6/28/2023 W C Input by:

Job Name: RIVER 3-3 STD





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

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

| Brg | Direction | Live | Dead | Snow | vvind |
|-----|-----------|------|------|------|-------|
| 1 | Vertical | 33 | 214 | 0 | 0 |
| 2 | Vertical | 33 | 213 | 0 | 0 |
| | | | | | |

Analysis Results

Member Information

| Ana l ysis | Actual | 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 lb | 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 |

Design Notes

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

7 Lateral slenderness ratio based on full section width.



JUNE 29, 2023

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| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments | |
|---------------------|---------------|----------------|------------|-----------|---------|--------|-------|-------|------------------|--|
| 1 | 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 | | |
| 2 | Part. Uniform | 0-0-0 to 0-0-0 | | Near Face | 102 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight | |
| 3 | Tapered Start | 0-0-0 | | Near Face | 7 PLF | 19 PLF | 0 PLF | 0 PLF | | |
| Continued on page 2 | | | | | | | | | | |

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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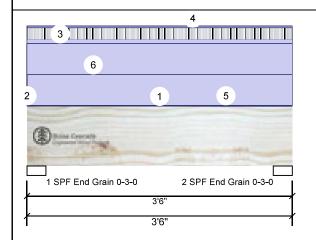


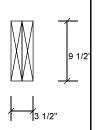
TRKEENPARK Project: PERMIT PLANS Dec 04- 2023 -- TES Mario

Date: 6/28/2023 Input by: $W\, C$

Job Name: RIVER 3-3 STD

FH5





| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|----------------|------------|-----------|--------|--------|-------|-------|-----------------------|
| | End | 3-6-0 | | | 7 PLF | 19 PLF | 0 PLF | 0 PLF | |
| 4 | Part. Uniform | 0-0-0 to 3-6-0 | | Near Face | 3 PLF | 0 PLF | 0 PLF | 0 PLF | Rim Board Self Weight |
| 5 | Part. Uniform | 0-0-0 to 3-6-0 | | Тор | 51 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 6 | Part. Uniform | 0-0-0 to 3-6-0 | | Near Face | 51 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| | Self Weight | | | | 9 PLF | | | | |



JUNE 29, 2023

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Handling & Installation

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3. Damaged Beams must not be used

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

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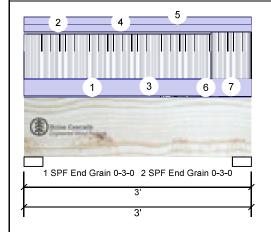


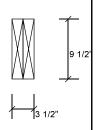




TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE) Morto

6/28/2023 Input by: WC Job Name: RIVER 3-3 DC





Member Information

| | 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 | | |
| ı | | | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Direction | Live | Dead | Snow | Wind |
|-----------|----------|--------------|------------------|--------------------|
| Vertical | 380 | 285 | 0 | 0 |
| Vertical | 386 | 287 | 0 | 0 |
| | Vertical | Vertical 380 | Vertical 380 285 | Vertical 380 285 0 |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|--------------------|-----------|---------------|------------|------------|---------|
| Moment | 533 ft-lb | 1'6 1/16" | 23220 ft-lb | 0.023 (2%) | 1.25D+1.5L | L |
| Unbraced | 533 ft-lb | 1'6 1/16" | 23220 ft-lb | 0.023 (2%) | 1.25D+1.5L | L |
| Shear | 742 l b | 1' 1/2" | 10574 lb | 0.070 (7%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.000 (L/71456) | 1'6" | 0.088 (L/360) | 0.005 (1%) | D | Uniform |
| LL Defl inch | 0.001 (L/53425) | 1'6" | 0.088 (L/360) | 0.007 (1%) | L | L |
| TL Defl inch | 0.001 (L/30569) | 1'6" | 0.131 (L/240) | 0.008 (1%) | D+L | L |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. F | React D/L I b | Total | Ld. Case | Ld. Comb. |
|-------------------------|--------|------|--------|----------------------|-------|----------|------------|
| 1 - SPF End Grain | 3.000" | Vert | 8% | 356 / 570 | 926 | L | 1.25D+1.5L |
| 2 - SPF End Grain | 3.000" | Vert | 9% | 359 / 580 | 939 | 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' 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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| ID | 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 2-5-10 | | Near Face | 95 PLF | 252 PLF | 0 PLF | 0 PLF | J3 | |
| Continued on page 2 | | | | | | | | | | |

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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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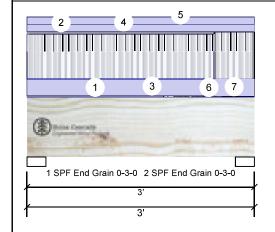


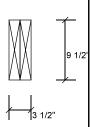
TRRECOPARK Project: PERMIT PLANS Dec 04- 2023 -- TES Martin

6/28/2023 Input by: WC

Job Name: RIVER 3-3 DC

FH5





| Continued | trom | page | 1 |
|-----------|------|------|----|
| ID | | Los | 20 |

| I D | 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 | |
| 7 | Part. Uniform | 2-5-10 to 3-0-0 | | Near Face | 98 PLF | 262 PLF | 0 PLF | 0 PLF | J3 |
| | Self Weight | | | | 9 PLF | | | | |



JUNE 29, 2023

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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

For flat roofs provide proper drainage to prevent ponding

Boise Cascade Wood Products 1111 W. Jefferson St.

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

Manufacturer Info

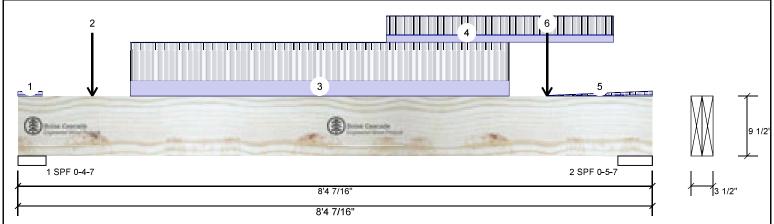
Kott Inc.

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









| Member Infor | mation | | | Unfactored Reactions UNPATTERNED Ib (Uplift) | | | | | | | |
|--------------------|-------------------|----------------|-----------------------|--|--------------|---------|------|--------------|-------|----------|------------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | L | ive | Dead | | Snow | Wind |
| Plies: | 2 | Design Method: | LSD | 1 | Vertical | 9 | 927 | 411 | | 0 | 0 |
| Moisture Condition | n: Dry | Building Code: | NBCC 2015 | 2 | Vertical | 1. | 121 | 484 | | 0 | 0 |
| Deflection LL: | eflection 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. | Сар. | React D/L Ib | Total | Ld. Case | Ld. Comb. |
| | | | | 1 - | SPF 4.438" | Vert | 20% | 513 / 1391 | 1904 | L | 1.25D+1.5L |
| | | | | 2 - | 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 l b | 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

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| ID | 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 | Point | 0-11-12 | | Near Face | 81 l b | 200 lb | 0 l b | 0 lb | J3 |
| 3 | Part. Uniform | 1-5-12 to 6-5-12 | | Near Face | 97 PLF | 241 PLF | 0 PLF | 0 PLF | |
| 4 | Part. Uniform | 4-10-5 to 7-10-5 | | Тор | 45 PLF | 120 PLF | 0 PLF | 0 PLF | |
| 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 : |

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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

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

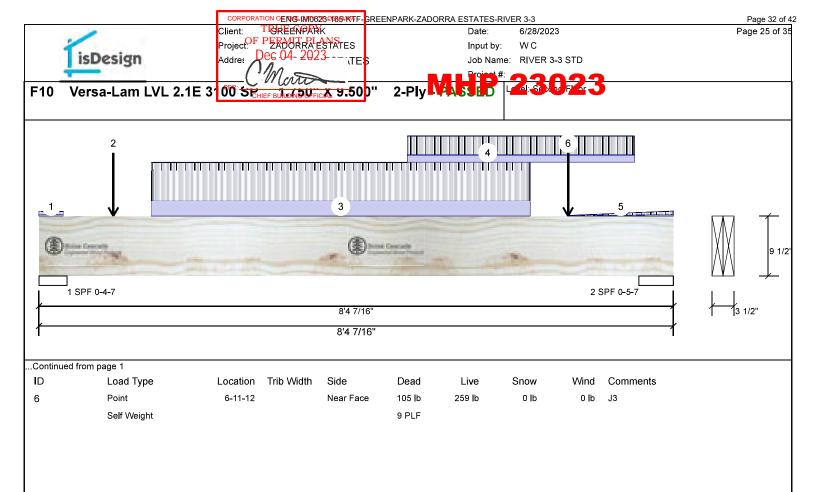
Manufacturer Info

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

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









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Kott Inc.



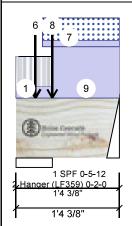


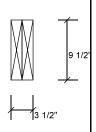
TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE) Mario

6/28/2023 WC Input by:

Job Name: RIVER 3-3 STD

Versa-Lam LVL 2.1E 3 00 รัโดเร ยป้อง 9.500"





| Mem | ber | Inform | ation |
|-----|-----|--------|-------|
| | | | |

| Type: | Girder | Application: | Floor (Residential) |
|------------------------------------|-------------|----------------|------------------------------------|
| Plies: | 2 | Design Method: | LSD |
| Moisture Condition: Deflection LL: | Dry 360 | Building Code: | NBCC 2015 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 | 258 | 363 | 326 | 0 |
| 2 | Vertical | 0 | 52 | 18 | 0 |
| | | | | | |
| | | | | | |

Analysis Results

| Analysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------------|----------|---------------|------------|----------|---------|
| Moment | 12 ft-lb | 10 1/16" | 15093 ft-lb | 0.001 (0%) | 1.4D | Uniform |
| Unbraced | 12 ft-lb | 10 1/16" | 15093 ft-lb | 0.001 (0%) | 1.4D | Uniform |
| Shear | 48 lb | 1'3 1/4" | 6873 lb | 0.007 (1%) | 1.4D | Uniform |
| Perm Defl in. | 0.000 (L/2014580) | 10 1/16" | 0.028 (L/360) | 0.000 (0%) | D | Uniform |
| LL Defl inch | 0.000 (L/5625422) | 10" | 0.028 (L/360) | 0.000 (0%) | S+0.5L | L |
| TL Defl inch | 0.000 (L/1483385) | 10 1/16" | 0.042 (L/240) | 0.000 (0%) | D+S+0.5L | L |

Bearings and Factored Reactions

| Bearing | Length | Dir. | Cap. | React D/L I b | Total | Ld. Case | Ld. Comb. |
|---------------|--------|------|------|----------------------|-------|----------|------------------|
| 1 - SPF | 5.750" | Vert | 10% | 453 / 747 | 1200 | L | 1.25D+1.5S +L |
| 2 - Hanger | 2.000" | Vert | 1% | 73 / 0 | 73 | Uniform | 1.4D |

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Fill all hanger nailing holes.
- 4 Right Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Multiple plies must be fastened together as per manufacturer's details.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be continuously laterally braced.
- 9 Bottom must have sheathing attached or be continuously braced.
- 10 Lateral slenderness ratio based on full section width.



JUNE 29, 2023

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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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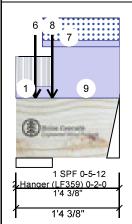
TRRECOPARK Project: PERMIT PLANS Dec 04- 2023 -- TES Mort

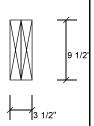
Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

Versa-Lam LVL 2.1E 3 00 5 CHIEF BULL NO 91.500"

2-Ply MASSES





| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|----------------|-----------------|------------|-----------|----------------|----------------|----------------|--------------|------------------|
| 1 | Tie-In | 0-0-0 to 0-5-12 | 1-2-4 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Point | 0-3-1 | | Тор | 135 l b | 24 lb | 243 l b | 0 lb | F18 |
| | Bearing Length | 0-5-8 | | | | | | | |
| 3 | Point | 0-3-1 | | Тор | 25 l b | 0 lb | 66 lb | 0 l b | |
| | Bearing Length | 0-5-8 | | | | | | | |
| 4 | Point | 0-3-1 | | Тор | 43 b | 0 l b | 0 b | 0 l b | Wall Self Weight |
| | Bearing Length | 0-5-8 | | | | | | | |
| 5 | Point | 0-3-1 | | Тор | 9 l b | 0 lb | 0 l b | 0 l b | Wall Self Weight |
| | Bearing Length | 0-5-8 | | | | | | | |
| 3 | Point | 0-3-1 | | Тор | 8 l b | 0 lb | 0 l b | 0 l b | Wall Self Weight |
| | Bearing Length | 0-5-8 | | | | | | | |
| 7 | Part. Uniform | 0-4-3 to 1-4-6 | | Тор | 10 PLF | 0 PLF | 35 PLF | 0 PLF | |
| 8 | Point | 0-5-12 | | Near Face | 93 l b | 211 l b | 0 l b | 0 l b | J1 |
| 9 | Part. Uniform | 0-5-13 to 1-4-6 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| | Self Weight | | | | 9 PLF | | | | |



JUNE 29, 2023

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

Handling & Installation

- Handling & Installation

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 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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Kott Inc.

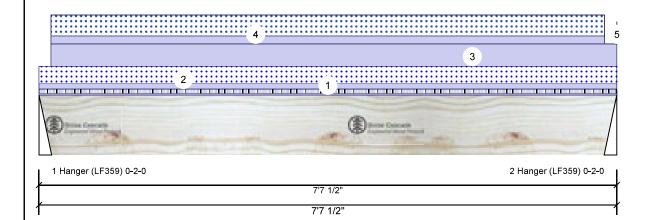


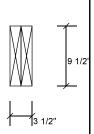


Input by: WC

Job Name: RIVER 3-3 STD

Versa-Lam LVL 2.1E 3 00 รัโดเร ยป้อง 9.500"





Member Information

| | 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 | | |
| | | | | |
| ı | | | | |

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 59 | 529 | 514 | 0 |
| 2 | Vertical | 59 | 541 | 514 | 0 |
| | | | | | |

Analysis Results

| Analysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|----------|---------------|-------------|------------------|---------|
| Moment | 2760 ft-lb | 3'9 3/4" | 23220 ft-lb | 0.119 (12%) | 1.25D+1.5S +L | L |
| Unbraced | 2760 ft-lb | 3'9 3/4" | 23220 ft-lb | 0.119 (12%) | 1.25D+1.5S +L | L |
| Shear | 1155 lb | 11 1/2" | 10574 lb | 0.109 (11%) | 1.25D+1.5S +L | L |
| Perm Defl in. | 0.019 (L/4711) | 3'9 3/4" | 0.247 (L/360) | 0.076 (8%) | D | Uniform |
| LL Defl inch | 0.019 (L/4632) | 3'9 3/4" | 0.247 (L/360) | 0.078 (8%) | S+0.5L | L |
| TL Defl inch | 0.038 (L/2336) | 3'9 3/4" | 0.371 (L/240) | 0.103 (10%) | D+S+0.5L | L |

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|----------|---------------|-------------|------------------|---------|
| Moment | 2760 ft-lb | 3'9 3/4" | 23220 ft-lb | 0.119 (12%) | 1.25D+1.5S +L | L |
| Unbraced | 2760 ft-lb | 3'9 3/4" | 23220 ft-lb | 0.119 (12%) | 1.25D+1.5S +L | L |
| Shear | 1155 lb | 11 1/2" | 10574 lb | 0.109 (11%) | 1.25D+1.5S +L | L |
| Perm Defl in. | 0.019 (L/4711) | 3'9 3/4" | 0.247 (L/360) | 0.076 (8%) | D | Uniform |
| LL Defl inch | 0.019 (L/4632) | 3'9 3/4" | 0.247 (L/360) | 0.078 (8%) | S+0.5L | L |
| TL Defl inch | 0.038 (L/2336) | 3'9 3/4" | 0.371 (L/240) | 0.103 (10%) | D+S+0.5L | L |

Bearings and Factored Reactions

| Bearing Len | gth Dir. | Cap. | React D/L I b | Total | Ld. Case | Ld. Comb. |
|--------------------|----------|------|----------------------|-------|----------|------------------|
| 1 - 2.00 Hanger | 00" Vert | 20% | 661 / 830 | 1492 | L | 1.25D+1.5S +L |
| 2 - 2.00 Hanger | 00" Vert | 20% | 677 / 830 | 1507 | L | 1.25D+1.5S +L |

Design Notes

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



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Handling & Installation

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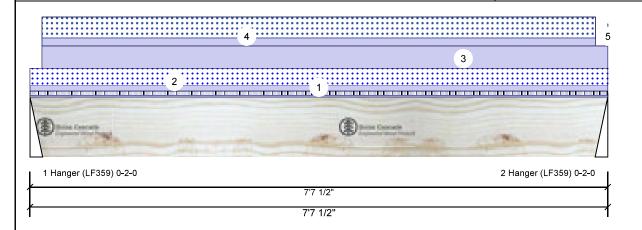
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Job Name: RIVER 3-3 STD

Versa-Lam LVL 2.1E 3 00 รัโดเร ยป้อง 9.500"



| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|---------------|-----------------|------------|------|--------|--------|--------|-------|------------------|
| 1 | Tie-In | 0-0-0 to 7-7-8 | 0-4-10 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Part. Uniform | 0-0-0 to 7-7-8 | | Тор | 19 PLF | 0 PLF | 63 PLF | 0 PLF | |
| 3 | Part. Uniform | 0-1-14 to 7-7-8 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 4 | Part. Uniform | 0-1-14 to 7-5-9 | | Тор | 29 PLF | 0 PLF | 75 PLF | 0 PLF | |
| 5 | Part. Uniform | 7-7-8 to 7-7-8 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| | Self Weight | | | | 9 PLF | | | | |



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Handling & Installation

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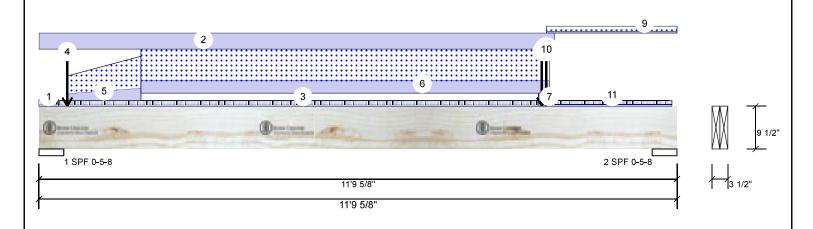


TRREEMPARK Project: PERMIT PLANS isDesign

6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

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



| Member Info | rmation | | | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | |
|------------------|-------------|----------------|-----------------------|--|--------------|-------|--------|----------------------|-------|----------|
| Туре: | Girder | Application: | Floor (Residential) | Brg | Direction | | Live | Dead | | Snow |
| Plies: | 2 | Design Method: | LSD | 1 | Vertical | | 124 | 956 | | 938 |
| Moisture Conditi | ion: Dry | Building Code: | NBCC 2015 | 2 | Vertical | | 127 | 702 | | 659 |
| 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 I b | Total | Ld. Case |
| | | | | 1 1- | SPF 5.500" | Vert | 23% | 1195 / 1531 | 2726 | L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|------------|------------------|-------------|------------------|---------|
| Moment | 6669 ft-lb | 5'9 3/4" | 23220 ft-lb | 0.287 (29%) | 1.25D+1.5S +L | L |
| Unbraced | 6669 ft-lb | 5'9 3/4" | 23220 ft-lb | 0.287 (29%) | 1.25D+1.5S +L | L |
| Shear | 2095 lb | 1'3" | 10574 l b | 0.198 (20%) | 1.25D+1.5S +L | L |
| Perm Defl in. | 0.098 (L/1355) | 5'10 1/2" | 0.367 (L/360) | 0.266 (27%) | D | Uniform |
| LL Defl inch | 0.101 (L/1303) | 5'10 3/8" | 0.367 (L/360) | 0.276 (28%) | S+0.5L | L |
| TL Defl inch | 0.199 (L/664) | 5'10 7/16" | 0.550 (L/240) | 0.361 (36%) | D+S+0.5L | 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 continuously laterally braced.
- 7 Bottom must be laterally braced at a maximum of 9'4 5/8" o.c.
- 8 Lateral slenderness ratio based on full section width.

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 124 | 956 | 938 | 0 |
| 2 | Vertical | 127 | 702 | 659 | 0 |

| Bearing | Length | Dir. | Cap. | React D/L I b | Total | Ld. Case | Ld. Comb. |
|---------|--------|------|------|----------------------|-------|----------|------------------|
| 1 - SPF | 5.500" | Vert | 23% | 1195 / 1531 | 2726 | L | 1.25D+1.5S +L |
| 2 - SPF | 5.500" | Vert | 17% | 877 / 1115 | 1992 | L | 1.25D+1.5S |



JUNE 29, 2023

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

www.bc.com CCMC: 12472

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



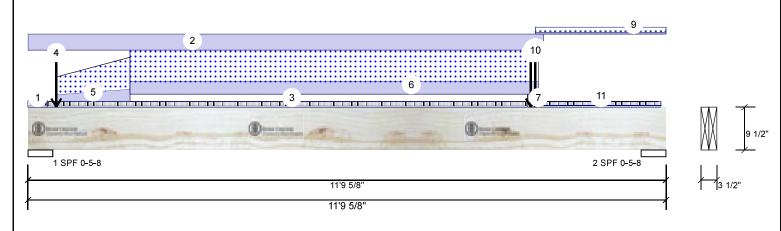


TRKEENPARK Project: PERMIT PLANS Dec 04-2023--- (TE) isDesign

Date: Input by: WC

Job Name: RIVER 3-3 STD

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



| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|----------------|-------------------|------------|----------|---------------|--------------|---------|-------|------------------|
| 1 | Tie-In | 0-0-0 to 0-4-6 | 0-6-15 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Part. Uniform | 0-0-0 to 9-6-6 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 3 | Tie-In | 0-4-6 to 9-2-14 | 0-6-3 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 4 | Point | 0-6-4 | | Тор | 83 l b | 0 lb | 154 lb | 0 lb | F11 |
| | Bearing Length | 0-5-8 | | | | | | | |
| 5 | Tapered Start | 0-6-4 | | Тор | 34 PLF | 0 PLF | 88 PLF | 0 PLF | |
| | End | 1-10-10 | | | 61 PLF | 0 PLF | 159 PLF | 0 PLF | |
| 6 | Part. Uniform | 1-10-10 to 9-5-4 | | Тор | 61 PLF | 0 PLF | 158 PLF | 0 PLF | |
| 7 | Tie-In | 9-2-14 to 9-5-15 | 1-2-3 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 8 | Point | 9-3-10 | | Тор | 10 lb | 0 l b | 0 lb | 0 lb | Wall Self Weight |
| | Bearing Length | 0-5-8 | | | | | | | |
| 9 | Part. Uniform | 9-4-10 to 11-9-10 | | Тор | 8 PLF | 0 PLF | 26 PLF | 0 PLF | |
| 10 | Point | 9-4-10 | | Far Face | 52 lb | 0 lb | 18 lb | 0 lb | F16 |
| 11 | Tie-In | 9-5-15 to 11-8-8 | 0-6-7 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | Self Weight | | | | 9 PLF | | | | |
| | | | | | | | | | |



JUNE 29, 2023

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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

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Kott Inc.

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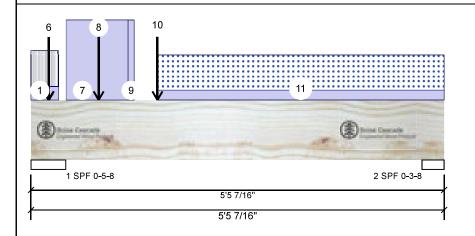


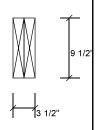
TRREEMPRAK Project: PERMIT PLANS

W C Input by:

Job Name: RIVER 3-3 STD

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





Member Information Type:

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

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

Design Method: LSD **Building Code:**

NBCC 2015 OBC 2012(2020 Update)

Load Sharing:

Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 322 | 788 | 634 | 0 |
| 2 | Vertical | 32 | 206 | 222 | 0 |

Bearings and Factored Reactions

| ſ | Bearing | Length | Dir. | Cap. | React D/L Ib | Total | Ld. Case | Ld. Comb. |
|---|---------|--------|------|------|--------------|-------|----------|------------------|
| | 1 - SPF | 5.500" | Vert | 19% | 985 / 1273 | 2258 | L | 1.25D+1.5S +L |
| | 2 - SPF | 3.500" | Vert | 8% | 258 / 365 | 623 | L | 1.25D+1.5S +I |

Analysis Results

| Analysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|---------------|--------------------|-----------|---------------|-------------|------------------|---------|
| Moment | 1667 ft-lb | 1'8" | 23220 ft-lb | 0.072 (7%) | 1.25D+1.5S +L | L |
| Unbraced | 1667 ft-lb | 1'8" | 23220 ft-lb | 0.072 (7%) | 1.25D+1.5S +L | L |
| Shear | 1435 lb | 1'3" | 10574 lb | 0.136 (14%) | 1.25D+1.5S +L | L |
| Perm Defl in. | 0.004 (L/14767) | 2'6 3/8" | 0.161 (L/360) | 0.024 (2%) | D | Uniform |
| LL Defl inch | 0.004 (L/14206) | 2'6 3/4" | 0.161 (L/360) | 0.025 (3%) | S+0.5L | L |
| TL Defl inch | 0.008 (L/7241) | 2'6 9/16" | 0.241 (L/240) | 0.033 (3%) | D+S+0.5L | 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 3'9 3/8" o.c.
- 7 Bottom must be laterally braced at a maximum of 3'9 3/8" o.c.
- 8 Lateral slenderness ratio based on full section width.



JUNE 29, 2023

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Notes

Notes

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info

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

Kott Inc.

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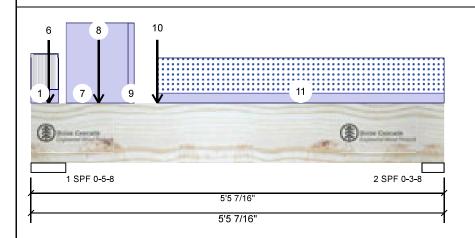


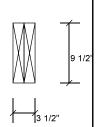
TRKEENPARK Project: PERMIT PLANS Dec 04-2023--- (TE) Morto

Date: Input by: $W\, C$

Job Name: RIVER 3-3 STD

Versa-Lam LVL 2.1E 31 0 SP CHIEF ไม่ได้มีบาก Xay .500





| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|----------------|----------------|------------|-----------|----------------|----------------|----------------|--------------|------------------|
| 1 | Tie-In | 0-0-0 to 0-4-6 | 0-10-12 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Point | 0-2-13 | | Тор | 6 l b | 0 lb | 16 l b | 0 lb | |
| | Bearing Length | 0-5-8 | | | | | | | |
| 3 | Point | 0-2-13 | | Тор | 30 lb | 0 lb | 0 l b | 0 lb | Wall Self Weight |
| | Bearing Length | 0-5-8 | | | | | | | |
| 4 | Point | 0-2-13 | | Тор | 12 b | 0 lb | 0 l b | 0 l b | Wall Self Weight |
| | Bearing Length | 0-5-8 | | | | | | | |
| 5 | Point | 0-2-13 | | Тор | 154 l b | 121 l b | 194 l b | 0 lb | F15 |
| | Bearing Length | 0-5-8 | | | | | | | |
| 6 | Point | 0-2-13 | | Тор | 25 l b | 0 lb | 0 l b | 0 l b | Wall Self Weight |
| | Bearing Length | 0-5-8 | | | | | | | |
| 7 | Part. Uniform | 0-5-9 to 1-3-6 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 8 | Point | 0-10-11 | | Near Face | 60 lb | 161 l b | 0 l b | 0 l b | J4 |
| 9 | Part. Uniform | 1-3-6 to 1-4-5 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 10 | Point | 1-8-0 | | Near Face | 541 lb | 59 lb | 514 lb | 0 l b | F17 |
| 11 | Part. Uniform | 1-8-0 to 5-5-7 | | Тор | 10 PLF | 0 PLF | 35 PLF | 0 PLF | |
| | Self Weight | | | | 9 PLF | | | | |



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Handling & Installation

Handling & Installation

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6. For flat roofs provide proper drainage to prevent ponding

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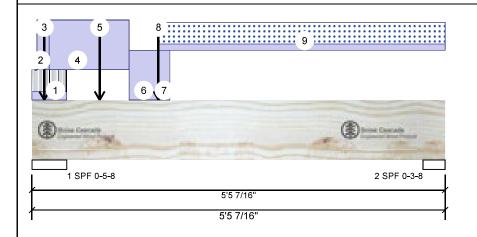


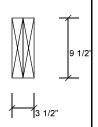
TRRECOPARK Project: PERMIT PLANS Dec 04-2023--- (TE) Mario

6/28/2023 W C Input by:

Job Name: RIVER 3-3 STD

Versa-Lam LVL 2.1E 3 100 SHIEF BUILDING SPUCIALX 9.500"





Member Information

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

Floor Live: 40 PSF Dead: 15 PSF

Application: Floor (Residential)

| Design Method: | LSD |
|----------------|-----|
| Building Code: | NBC |

CC 2015 OBC 2012(2020 Update)

Load Sharing:

Deck: Vibration: Not Checked

Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind |
|-----|-----------|------|------|------|------|
| 1 | Vertical | 235 | 651 | 469 | 0 |
| 2 | Vertical | 32 | 212 | 222 | 0 |

Bearings and Factored Reactions

| t | | | | | | | | |
|---|---------|--------|------|------|----------------------|-------|----------|------------------|
| l | Bearing | Length | Dir. | Cap. | React D/L I b | Total | Ld. Case | Ld. Comb. |
| l | 1 - SPF | 5.500" | Vert | 15% | 813 / 939 | 1752 | L | 1.25D+1.5S +L |
| | 2 - SPF | 3.500" | Vert | 8% | 265 / 365 | 631 | L | 1.25D+1.5S +I |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|--------------------|-----------|---------------|-------------|------------------|---------|
| Moment | 1692 ft-lb | 1'8" | 22987 ft-lb | 0.074 (7%) | 1.25D+1.5S +L | L |
| Unbraced | 1692 ft-lb | 1'8" | 22987 ft-lb | 0.074 (7%) | 1.25D+1.5S +L | L |
| Shear | 1458 lb | 1'3" | 10468 lb | 0.139 (14%) | 1.25D+1.5S +L | L |
| Perm Defl in. | 0.004 (L/14279) | 2'6 5/16" | 0.161 (L/360) | 0.025 (3%) | D | Uniform |
| LL Defl inch | 0.004 (L/14206) | 2'6 3/4" | 0.161 (L/360) | 0.025 (3%) | S+0.5L | L |
| TL Defl inch | 0.008 (L/7121) | 2'6 9/16" | 0.241 (L/240) | 0.034 (3%) | D+S+0.5L | L |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 3'9 3/8" o.c.
- 6 Bottom must be laterally braced at a maximum of 3'9 3/8" o.c.
- 7 Lateral slenderness ratio based on full section width.



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Handling & Installation

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3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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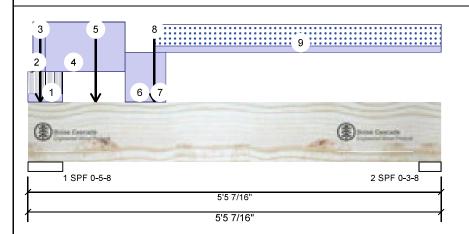


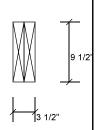
TREEMPREK Project: PERMIT PLANS Dec 04-2023--- (TE) Addres Mario

Date: 6/28/2023 Input by: WC

Job Name: RIVER 3-3 STD

Versa-Lam LVL 2.1E 3100 SHIEF BUILD NO 9.500"





| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments | |
|----|----------------|------------------|------------|----------|--------|---------------|----------------|--------------|------------------|--|
| 1 | Tie-In | 0-0-0 to 0-5-8 | 0-10-10 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | | |
| 2 | Part. Uniform | 0-0-13 to 0-2-11 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight | |
| 3 | Point | 0-1-15 | | Тор | 38 lb | 31 l b | 45 l b | 0 l b | F15 | |
| | Bearing Length | 0-5-8 | | | | | | | | |
| 4 | Part. Uniform | 0-2-11 to 1-3-6 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight | |
| 5 | Point | 0-10-11 | | Far Face | 60 lb | 161 lb | 0 l b | 0 lb | J4 | |
| 6 | Part. Uniform | 1-3-6 to 1-8-0 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight | |
| 7 | Part. Uniform | 1-8-0 to 1-9-13 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight | |
| 8 | Point | 1-8-0 | | Far Face | 529 lb | 59 lb | 514 l b | 0 l b | F17 | |
| 9 | Part. Uniform | 1-8-0 to 5-5-7 | | Тор | 10 PLF | 0 PLF | 35 PLF | 0 PLF | | |
| | Self Weight | | | | 9 PLF | | | | | |



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