

| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|----------------|-----------------|------------|-----------|----------------|----------------|--------------|--------------|------------------|
| 1 | Part. Uniform | 0-0-0 to 0-11-5 | | Тор | 92 PLF | 223 PLF | 0 PLF | 0 PLF | J6 |
| 2 | Part. Uniform | 0-0-0 to 0-6-5 | | Тор | 56 PLF | 148 PLF | 0 PLF | 0 PLF | J6 |
| 3 | Part. Uniform | 0-0-0 to 7-5-6 | | Тор | 80 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 4 | Part. Uniform | 0-0-0 to 0-1-12 | | Тор | 36 PLF | 87 PLF | 0 PLF | 0 PLF | J6 |
| 5 | Part. Uniform | 0-0-0 to 0-1-12 | | Тор | 22 PLF | 58 PLF | 0 PLF | 0 PLF | J6 |
| 6 | Part. Uniform | 0-0-0 to 0-1-12 | | Тор | 31 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 7 | Point | 0-1-12 | | Тор | 332 lb | 806 lb | 0 lb | 0 l b | F11 |
| | Bearing Length | 0-5-8 | | | | | | | |
| 8 | Point | 0-3-1 | | Near Face | 155 lb | 413 l b | 0 l b | 0 l b | J6 |
| 9 | Part. Uniform | 0-7-5 to 5-11-5 | | Тор | 117 PLF | 312 PLF | 0 PLF | 0 PLF | J6 |
| 10 | Part. Uniform | 0-7-5 to 1-11-5 | | Тор | 107 PLF | 263 PLF | 0 PLF | 0 PLF | J6 |
| 11 | Point | 1-5-1 | | Near Face | 145 l b | 387 lb | 0 l b | 0 l b | J6 |
| 12 | Part. Uniform | 1-11-5 to 7-4-5 | | Тор | 113 PLF | 301 PLF | 0 PLF | 0 PLF | J6 |
| 13 | Part. Uniform | 2-1-1 to 6-1-1 | | Near Face | 116 PLF | 310 PLF | 0 PLF | 0 PLF | |
| 14 | Part. Uniform | 5-11-5 to 7-3-5 | | Тор | 127 PLF | 340 PLF | 0 PLF | 0 PLF | J6 |
| 15 | Point | 6-9-1 | | Near Face | 148 l b | 394 lb | 0 l b | 0 l b | J6 |
| 16 | Part. Uniform | 7-5-6 to 8-1-2 | | Тор | 40 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 17 | Tie-In | 7-7-14 to 8-1-2 | 0-9-13 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | Self Weight | | | | 12 PLF | | | | |

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

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

Handling & Installation

Handling & Installation

1. 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

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

Manufacturer Info

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

Kott Inc.

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



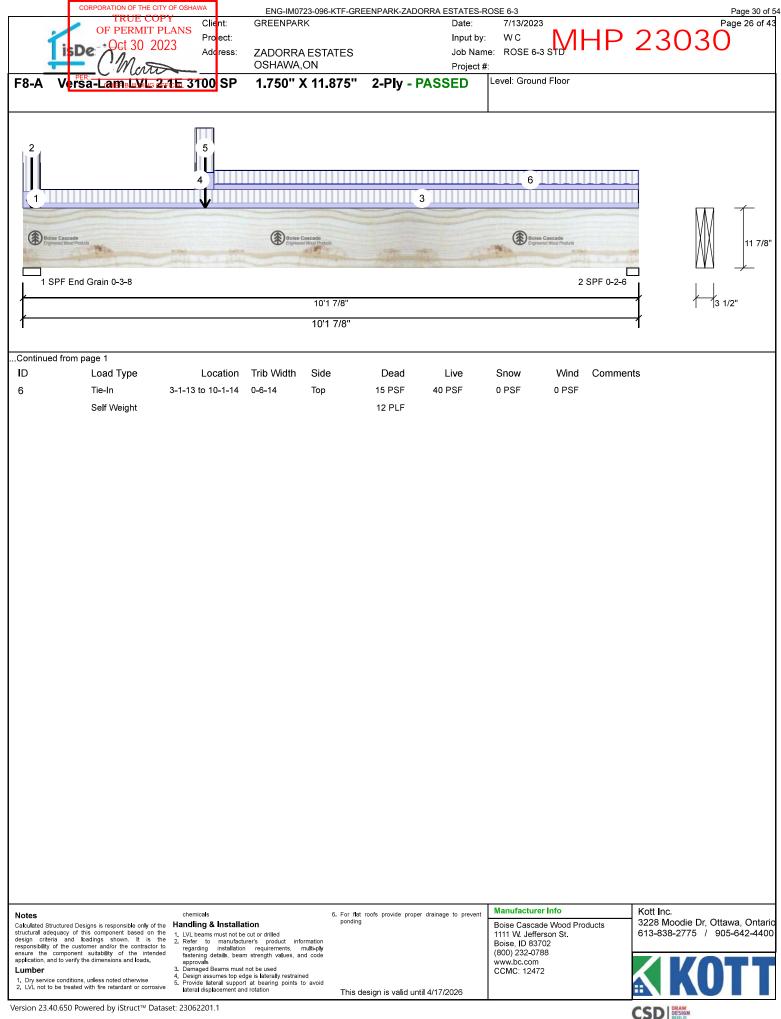


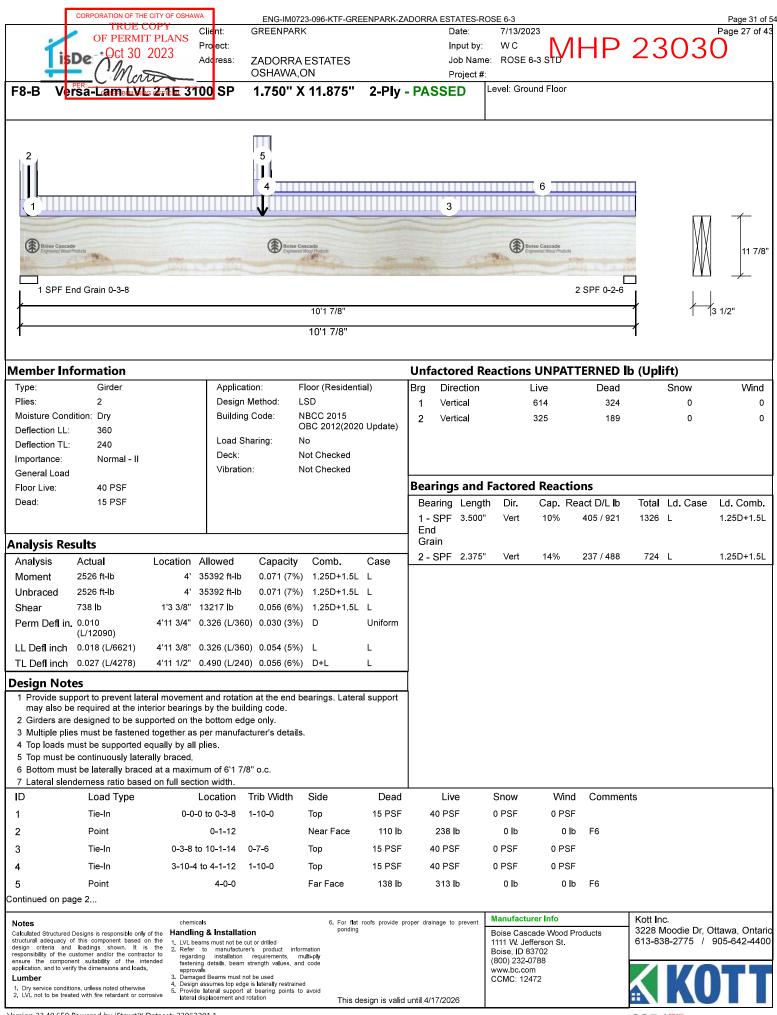
This design is valid until 4/17/2026

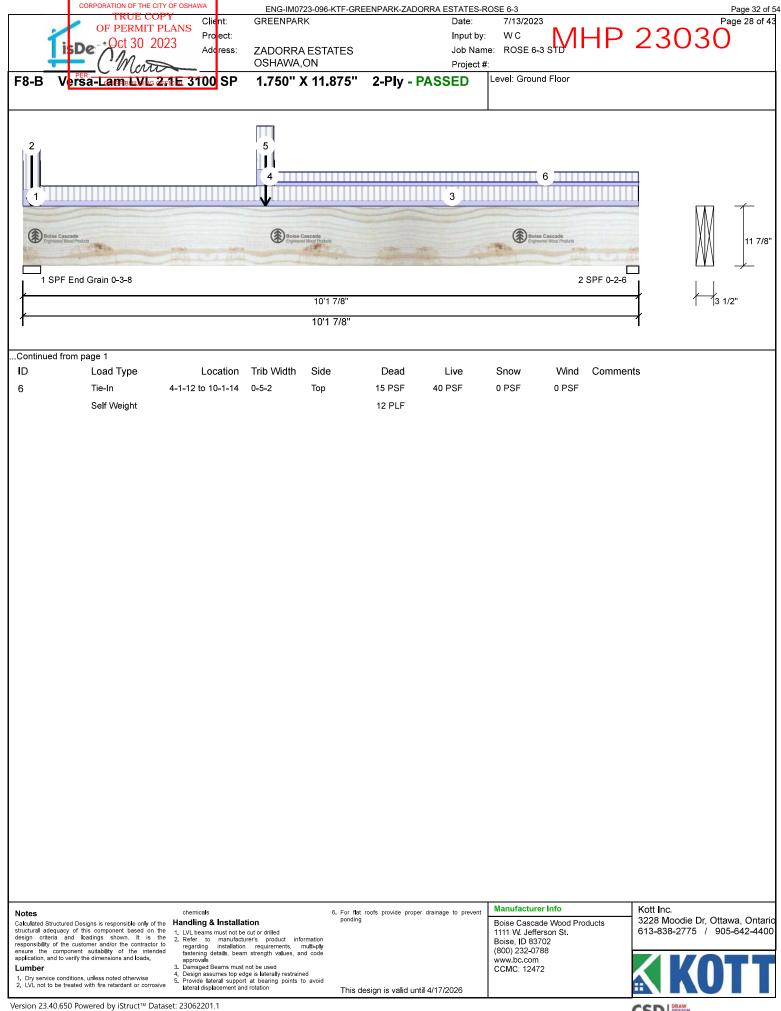
Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Damaged Beams must not be used

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







| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|------------|------------------|-------------|------------|---------|
| Moment | 4142 ft-lb | 6'9 7/8" | 35392 ft-lb | 0.117 (12%) | 1.25D+1.5L | L |
| Unbraced | 4142 ft-lb | 6'9 7/8" | 35392 ft-lb | 0.117 (12%) | 1.25D+1.5L | L |
| Shear | 852 lb | 12'9 7/16" | 13217 l b | 0.064 (6%) | 1.25D+1.5L | L |
| Perm Defl in | 0.032 (L/5083) | 7' 1/8" | 0.457 (L/360) | 0.071 (7%) | D | Uniform |
| LL Defl inch | 0.055 (L/3002) | 7' 3/8" | 0.457 (L/360) | 0.120 (12%) | L | L |
| TL Defl inch | 0.087 (L/1887) | 7' 1/4" | 0.685 (L/240) | 0.127 (13%) | D+L | L |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 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 be laterally braced at a maximum of 7'1 13/16" o.c.
- 7 Lateral slenderness ratio based on full section width.

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|-------------------|------------|----------|----------------|--------|--------------|--------------|----------|
| 1 | Tie-In | 0-0-0 to 13-11-11 | 0-5-12 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Part. Uniform | 0-4-14 to 7-0-14 | | Тор | 1 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 3 | Tie-In | 6-8-2 to 6-11-10 | 1-10-0 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 4 | Point | 6-9-14 | | Far Face | 138 b | 314 lb | 0 l b | 0 l b | F6 |
| 5 | Tie-In | 6-11-10 to | 0-7-2 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |

Continued on page 2...

Notes

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

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

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

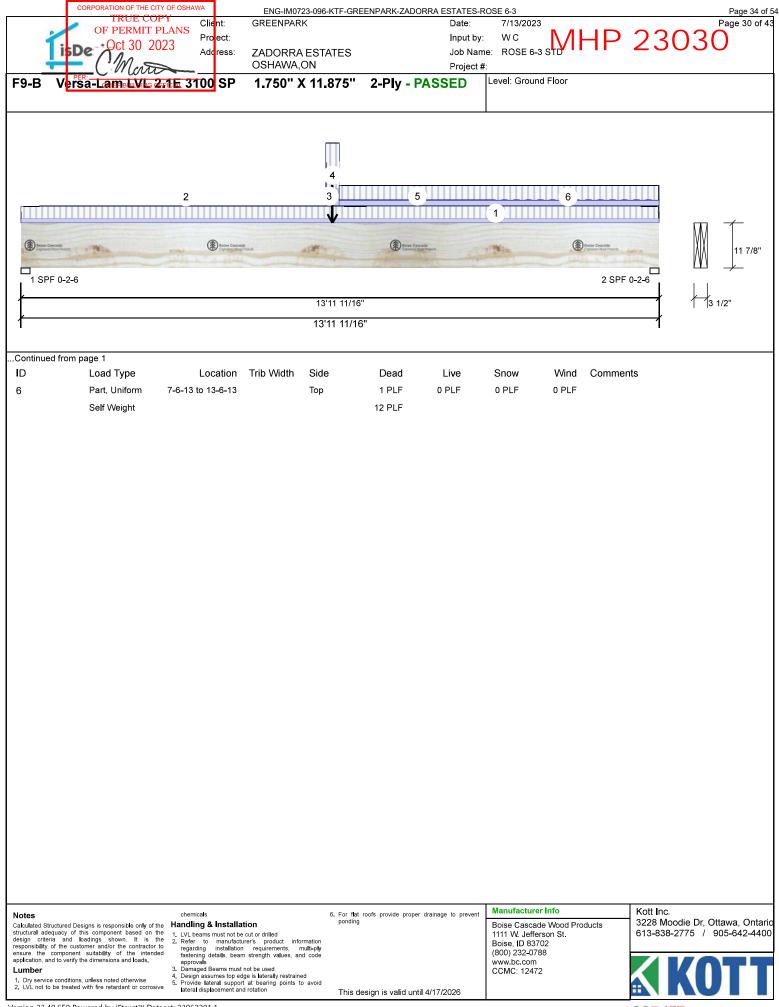
This design is valid until 4/17/2026

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

Manufacturer Info

www.bc.com CCMC: 12472





| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|------------|------------------|-------------|------------|---------|
| Moment | 3839 ft-lb | 7'9 13/16" | 35392 ft-lb | 0.108 (11%) | 1.25D+1.5L | L |
| Unbraced | 3839 ft-lb | 7'9 13/16" | 35392 ft-lb | 0.108 (11%) | 1.25D+1.5L | L |
| Shear | 902 lb | 12'6" | 13217 l b | 0.068 (7%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.029 (L/5627) | 7' 9/16" | 0.447 (L/360) | 0.064 (6%) | D | Uniform |
| LL Defl inch | 0.049 (L/3284) | 7'1 7/16" | 0.447 (L/360) | 0.110 (11%) | L | L |
| TL Defl inch | 0.078 (L/2074) | 7'1 1/8" | 0.671 (L/240) | 0.116 (12%) | 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 be laterally braced at a maximum of 7'9 13/16" o.c.
- 7 Lateral slenderness ratio based on full section width

| | acinicos ratio basca | On fair ocolion width. | | | | | | | |
|------------|----------------------|------------------------|------------|-----------|----------------|--------|-------|--------------|----------|
| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| 1 | Tie-In | 0-0-0 to 13-11-11 | 0-7-2 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 2 | Tie-In | 7-8-1 to 7-11-9 | 1-10-0 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| 3 | Point | 7-9-13 | | Near Face | 122 l b | 269 lb | 0 lb | 0 l b | F6 |
| 4 | Tie-In | 7-11-9 to 13-11-1 | 0-8-14 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | |
| | Self Weight | | | | 12 PLF | | | | |

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

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

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

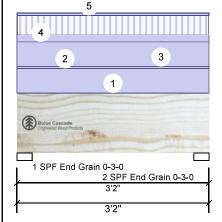
Manufacturer Info Boise Cascade Wood Products

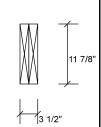
1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

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









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

| | Unfactored Reactions UNPATTERNED lb (Uplift) | | | | | | | | | | |
|---|--|-----------|------|------|------|------|--|--|--|--|--|
| | Brg | Direction | Live | Dead | Snow | Wind | | | | | |
| | 1 | Vertical | 49 | 175 | 0 | 0 | | | | | |
|) | 2 | Vertical | 49 | 175 | 0 | 0 | | | | | |

Bearings and Factored Reactions

Analysis Results Location Allowed Analysis Actual Capacity Comb. Case Moment 180 ft-lb 1'7" 25482 ft-lb 0.007 (1%) 1.25D+1.5L L Unbraced 180 ft-lb 25482 ft-lb 0.007 (1%) 1.25D+1.5L L 0.021 (2%) 1.25D+1.5L L 197 lb 1'2 7/8" 9516 lb Shear Perm Defl in 0.000 1'7" 0.093 (L/360) 0.002 (0%) D Uniform (L/190152) 0.000 1'7" 0.093 (L/360) 0.001 (0%) L LL Defl inch (L/679849) TL Defl inch 0.000 1'7" 0.140 (L/240) 0.002 (0%) D+L (L/148592)

| I | Bearing | Length | Dir. | Cap. | React D/L Ib | Total | Ld. Case | Ld. Comb. |
|-----|-------------------------|--------|------|------|--------------|-------|----------|------------|
| - 1 | 1 - SPF End Grain | 3.000" | Vert | 4% | 219 / 74 | 293 | L | 1.25D+1.5L |
| - 1 | 2 - SPF End Grain | 3.000" | Vert | 4% | 219 / 74 | 293 | 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 continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.
- 7 Lateral slenderness ratio based on full section width.

| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments | |
|------------|---------------|----------------|------------|-----------|--------|--------|-------|-------|------------------|--|
| 1 | Part. Uniform | 0-0-0 to 3-2-0 | | Тор | 40 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight | |
| 2 | Part. Uniform | 0-0-0 to 3-2-0 | | Near Face | 3 PLF | 0 PLF | 0 PLF | 0 PLF | | |
| 3 | Part. Uniform | 0-0-0 to 3-2-0 | | Near Face | 40 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight | |
| 4 | Tapered Start | 0-0-0 | | Near Face | 12 PLF | 31 PLF | 0 PLF | 0 PLF | | |
| | | | | | | | | | | |

Continued on page 2...

Notes

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

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

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

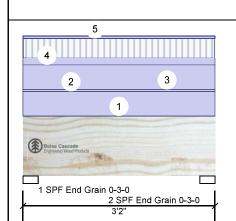
(800) 232-0788 www.bc.com CCMC: 12472

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



1.750" X 11.875"

2-Ply - PASSED Level: Ground Floor



3'2"

Versa-Lam LVL 2.1E 3100 SP

.Continued from page 1

ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 3-2-0 12 PLF 31 PLF 0 PLF 0 PLF 0 PLF 5 Part. Uniform 0-0-0 to 3-2-0 Near Face 4 PLF 0 PLF 0 PLF Rim Board Self Weight Self Weight 12 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

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

www.bc.com CCMC: 12472

Kott Inc.

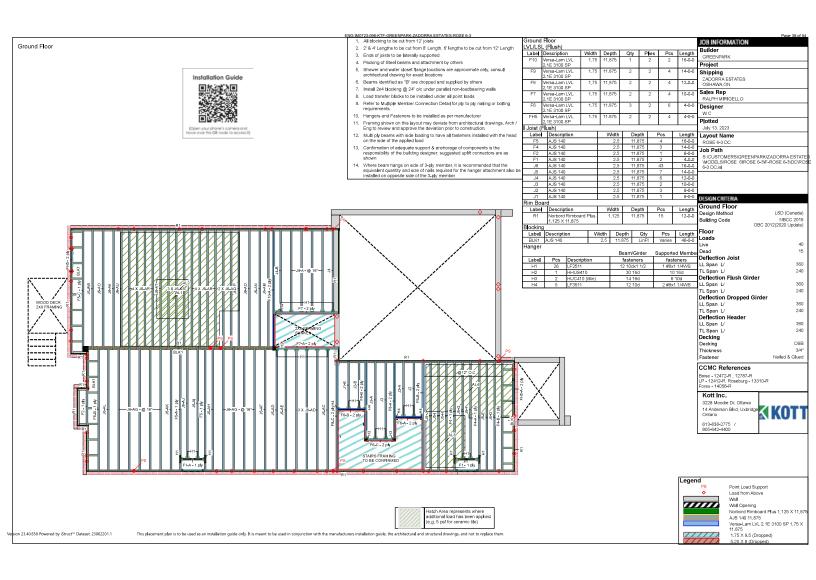
3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400











| Ana l ysis | Actua l | Location | Allowed | Capacity | Comb. | Case |
|-------------------|---------------------|----------|---------------|------------|------------|---------|
| Moment | 156 ft-lb | 1'6" | 23005 ft-lb | 0.007 (1%) | 1.25D+1.5L | L |
| Unbraced | 156 ft-lb | 1'6" | 23005 ft-lb | 0.007 (1%) | 1.25D+1.5L | L |
| Shear | 177 l b | 1'9 1/8" | 8591 lb | 0.021 (2%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.000 (L/230204) | 1'6" | 0.088 (L/360) | 0.002 (0%) | D | Uniform |
| LL Defl inch | 0.000 (L/800767) | 1'6" | 0.088 (L/360) | 0.000 (0%) | L+0.5S | L |
| TL Defl inch | 0.000 (L/178802) | 1'6" | 0.131 (L/240) | 0.001 (0%) | D+L+0.5S | 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 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.
- 7 Lateral slenderness ratio based on full section width.

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|----------------|------------|-----------|--------|--------|-------|-------|------------------|
| 1 | Part. Uniform | 0-0-0 to 3-0-0 | | Тор | 40 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 2 | Part. Uniform | 0-0-0 to 3-0-0 | | Near Face | 40 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 3 | Tapered Start | 0-0-0 | | Near Face | 12 PLF | 31 PLF | 0 PLF | 0 PLF | |
| | End | 3-0-0 | | | 12 PLF | 31 PLF | 0 PLF | 0 PLF | |

Continued on page 2...

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

Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

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

www.bc.com CCMC: 12472



ZADORRA ESTATES

Project #:

OSHAWA,ON Versa<mark>-LamouV-Lu2√1-E-3100 \$</mark>P

Client:

Pro ect:

Address:

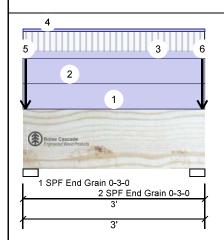
CORPORATION OF THE CITY OF OSHAWA

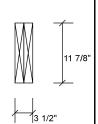
OF PERMIT PLANS

Oct 30 2023

1.750" X 11.875" 2-Ply - PASSED

Level: Ground Floor





| Continued from | page 1 | | | | | | | | |
|----------------|----------------|----------------|------------|-----------|--------|-------|--------|--------------|--------------------------------|
| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| 4 | Part. Uniform | 0-0-0 to 3-0-0 | | Near Face | 4 PLF | 0 PLF | 0 PLF | 0 PLF | Rim Board Self Weight |
| 5 | Point | 0-0-8 | | Тор | 306 lb | 41 lb | 309 lb | 0 l b | Header Column Header Column |
| | Bearing Length | 0-3-8 | | | | | | | |
| 6 | Point | 2-11-8 | | Тор | 251 lb | 41 lb | 169 lb | 0 l b | Header Column Header Column |
| | Bearing Length | 0-3-8 | | | | | | | |
| | Self Weight | | | | 12 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

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Manufacturer Info



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



| Intemper Intorn | ation | | | · |
|---------------------|-------------|----------------|-----------------------|---|
| Туре: | Girder | Application: | Floor (Residential) | E |
| Plies: | 2 | Design Method: | LSD | l |
| Moisture Condition: | Dry | Building Code: | NBCC 2015 | l |
| Deflection LL: | 360 | | OBC 2012(2020 Update) | l |
| Deflection TL: | 240 | Load Sharing: | No | l |
| Importance: | Normal - II | Deck: | Not Checked | l |
| General Load | | Vibration: | Not Checked | L |
| Floor Live: | 40 PSF | | | E |
| Dead: | 15 PSF | | | Γ |
| | | | | l |
| | | | | 1 |
| | | | | |

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.000" Vert 4% 219 / 74 293 L 1.25D+1.5L End Grain **Analysis Results** 2 - SPF 3.000" 219 / 74 293 L 1.25D+1.5L Vert 4% Analysis Location Allowed Capacity Actual Comb. Case End Moment 180 ft-lb 1'7" 25482 ft-lb 0.007 (1%) 1.25D+1.5L L Grain Unbraced 180 ft-lb 1'7" 25482 ft-lb 0.007 (1%) 1.25D+1.5L L 197 lb 1'11 1/8" 9516 lb 0.021 (2%) 1.25D+1.5L L Shear

Uniform

Design Notes

LL Defl inch

Perm Defl in 0.000

TL Defl inch 0.000

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.

1'7" 0.093 (L/360) 0.002 (0%) D

1'7" 0.093 (L/360) 0.001 (0%) L

1'7" 0.140 (L/240) 0.002 (0%) D+L

- 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.

(L/190152) 0.000

(L/679849)

(L/148592)

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

| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|----------------|------------|-----------|--------|--------|-------|-------|------------------|
| 1 | Part. Uniform | 0-0-0 to 3-2-0 | | Тор | 40 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 2 | Part. Uniform | 0-0-0 to 3-2-0 | | Near Face | 3 PLF | 0 PLF | 0 PLF | 0 PLF | |
| 3 | Part. Uniform | 0-0-0 to 3-2-0 | | Near Face | 40 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Self Weight |
| 4 | Tapered Start | 0-0-0 | | Near Face | 12 PLF | 31 PLF | 0 PLF | 0 PLF | |

Continued on page 2...

| Notes | |
|--|--|
| Calculated Structured Designs is responsible only of the | |
| structural adequacy of this component based on the | |
| docian critoria and loadings shown It is 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.

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Handling & Installation

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Manufacturer Info

www.bc.com CCMC: 12472

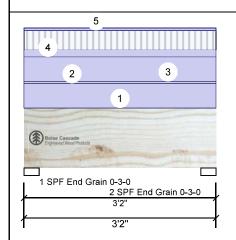


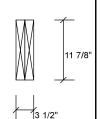


OSHAWA,ON

Project #:

2-Ply - PASSED Level: Ground Floor 1.750" X 11.875" Versa-Lam LVL 2.4E 310) SP





| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|----|---------------|----------------|------------|-----------|--------|--------|-------|-------|-----------------------|
| | End | 3-2-0 | | | 12 PLF | 31 PLF | 0 PLF | 0 PLF | |
| 5 | Part. Uniform | 0-0-0 to 3-2-0 | | Near Face | 4 PLF | 0 PLF | 0 PLF | 0 PLF | Rim Board Self Weight |
| | Self Weight | | | | 12 PLF | | | | |

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

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

Handling & Installation

Handling & Installation

1. 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

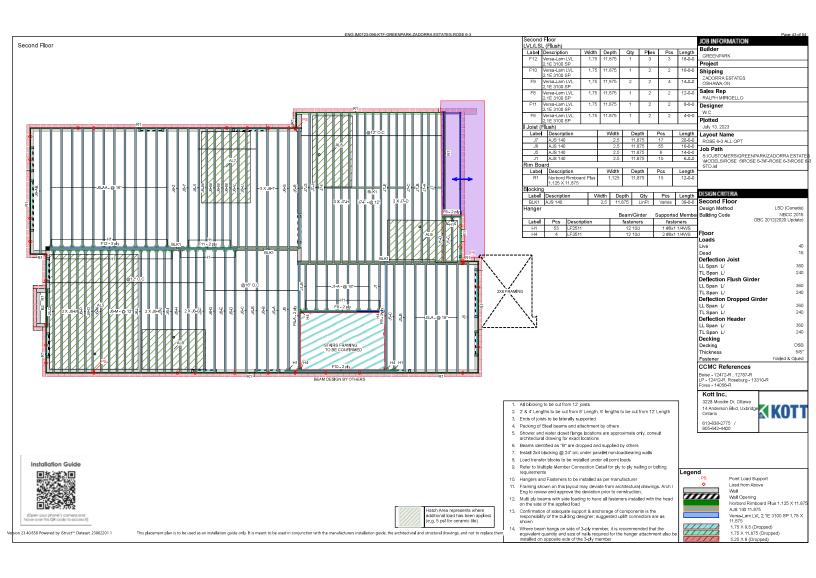
3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





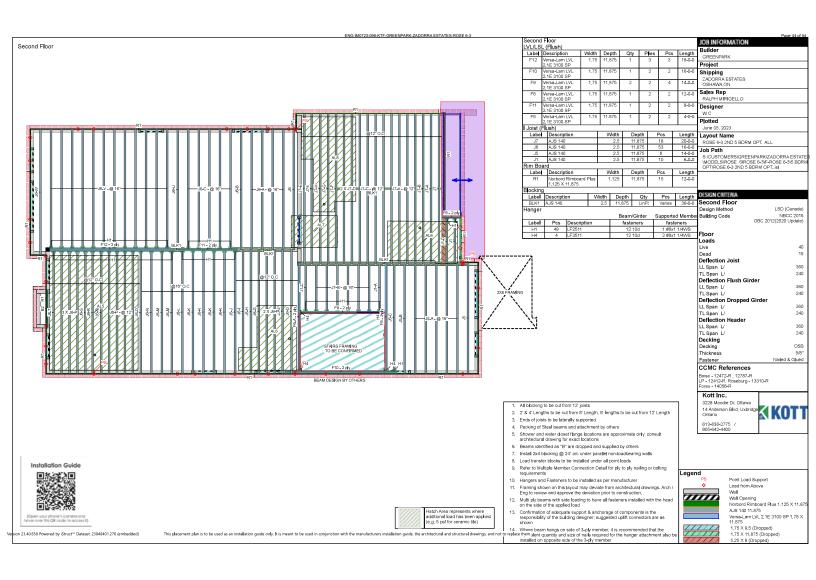


MHP 23030





MHP 23030



Address: **ZADORRA ESTATES** OSHAWA,ON

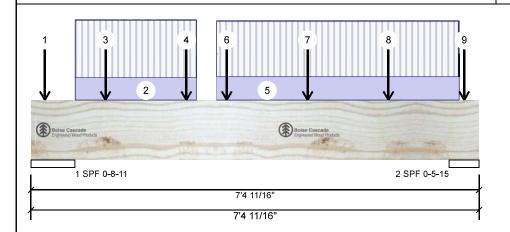
Project #

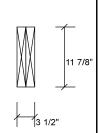
Versa-Lam LVL 2-1E 3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Second Floor





| 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 | 2 | 111 | 862 | | 0 | 0 | | |
| Moisture Condition | n: Dry | Building Code: | NBCC 2015 | 2 | Vertical | 20 | 073 | 855 | | 0 | 0 | | |
| Deflection LL: | 360 | | OBC 2012(2020 Update) | | | | | | | | | | |
| Deflection TL: | 240 | Load Sharing: | No | | | | | | | | | | |
| Importance: | Normal - II | Deck: | Not Checked | | | | | | | | | | |
| General Load | | Vibration: | Not Checked | | | | | | | | | | |
| Floor Live: | 40 PSF | | | Bear | ings and F | actored | Rea | ctions | | | | | |
| Dead: | 15 PSF | | | Bea | ring Length | Dir. | Сар. | React D/L Ib | Total | Ld. Case | Ld. Comb. | | |
| | | | | 1 - 3 | SPF 8.688" | Vert | 23% | 1078 / 3167 | 4245 | L | 1.25D+1.5L | | |
| | | | | - l 2 - : | SPF 5.938" | Vert | 33% | 1069 / 3109 | 4178 | L | 1.25D+1.5L | | |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|----------------|------------|------------------|-------------|------------|---------|
| Moment | 5983 ft-lb | 3'8 9/16" | 35392 ft-lb | 0.169 (17%) | 1.25D+1.5L | L |
| Unbraced | 5983 ft-lb | 3'8 9/16" | 35392 ft-lb | 0.169 (17%) | 1.25D+1.5L | L |
| Shear | 3811 lb | 1'8 9/16" | 13217 l b | 0.288 (29%) | 1.25D+1.5L | L |
| Perm Defl in. | 0.009 (L/8503) | 3'9 11/16" | 0.210 (L/360) | 0.042 (4%) | D | Uniform |
| LL Defl inch | 0.022 (L/3494) | 3'9 5/8" | 0.210 (L/360) | 0.103 (10%) | L | L |
| TL Defl inch | 0.031 (L/2477) | 3'9 5/8" | 0.315 (L/240) | 0.097 (10%) | 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 must be continuously laterally braced.
- 5 Bottom must have sheathing attached or be continuously braced.
- 6 Lateral slenderness ratio based on full section width.

| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|---------------|------------------|------------|-----------|----------------|----------------|-------|-------|----------|
| 1 | Point | 0-2-12 | | Near Face | 82 lb | 211 l b | 0 lb | 0 lb | J6 |
| 2 | Part. Uniform | 0-8-12 to 2-8-12 | | Near Face | 118 PLF | 306 PLF | 0 PLF | 0 PLF | |
| 3 | Point | 1-2-12 | | Far Face | 148 l b | 395 lb | 0 lb | 0 lb | J6 |
| 4 | Point | 2-6-12 | | Far Face | 133 lb | 346 lb | 0 lb | 0 lb | J6 |
| 5 | Part. Uniform | 3-0-12 to 7-0-12 | | Far Face | 123 PLF | 297 PLF | 0 PLF | 0 PLF | |
| 6 | Point | 3-2-12 | | Near Face | 136 lb | 357 lb | 0 lb | 0 lb | J6 |

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

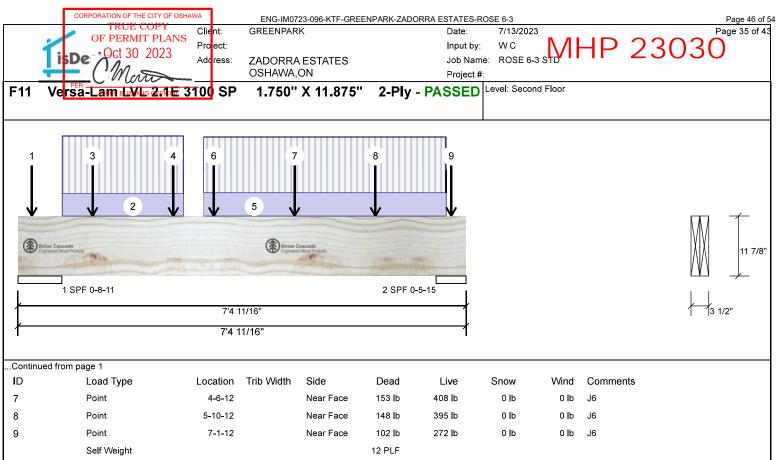
This design is valid until 4/17/2026

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

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

Manufacturer Info





| Continued f | rom page 1 | | | | | | | | |
|-------------|-------------|----------|------------|-----------|----------------|--------|--------------|------|----------|
| ID | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
| 7 | Point | 4-6-12 | | Near Face | 153 lb | 408 lb | 0 l b | 0 lb | J6 |
| 8 | Point | 5-10-12 | | Near Face | 148 l b | 395 lb | 0 lb | 0 lb | J6 |
| 9 | Point | 7-1-12 | | Near Face | 102 l b | 272 lb | 0 lb | 0 lb | J6 |
| | Self Weight | | | | 12 PLF | | | | |
| | | | | | | | | | |

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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





Notes

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regarding installation requirements, multi-ply
fastening details, beam strength values, and code
approvals

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lateral displacement and rotation

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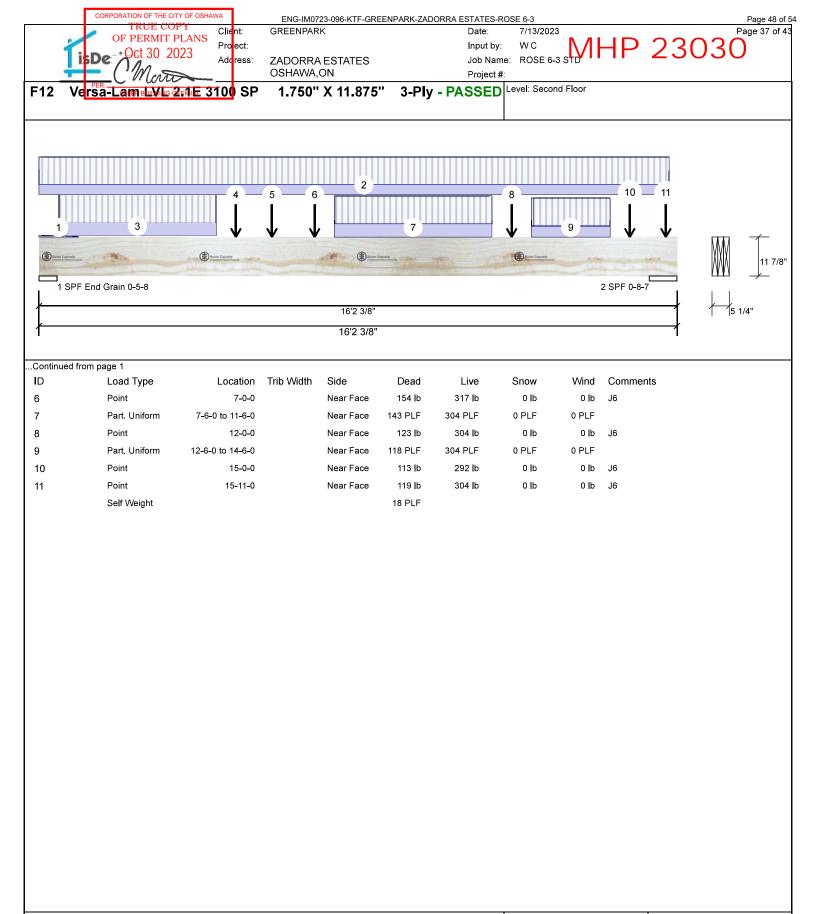
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Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

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

Kott Inc.

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





CORPORATION OF THE CITY OF OSHAWA Client: OF PERMIT PLANS Pro ect: Oct 30 2023 Address:

GREENPARK

Date:

ZADORRA ESTATES OSHAWA,ON

Project #

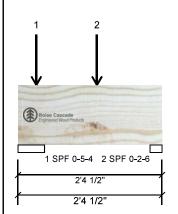
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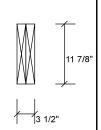
Versa-LameLVLv2-4E-3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Second Floor





| Member Info | ormation | | | | Unfa | actored Re | actions U | NP | ATTERNED I | (Upli | ft) | |
|-------------------------------|--------------------|----------|--------------------------------|------------------------------------|-------|-------------|-----------|-----|--------------|-------|----------|------------------|
| Туре: | Girder | | Application: | Floor (Residential) | Brg | Direction | Liv | е | Dead | | Snow | Wind |
| Plies: | 2 | | Design Method: | LSD | 1 | Vertical | 16 | 8 | 224 | | 60 | 0 |
| Moisture Condit | ion: Dry 360 | | Building Code: | NBCC 2015 OBC 2012(2020 Update) | 2 | Vertical | 5 | 5 | 101 | | 38 | 0 |
| Deflection TL: Importance: | 240 Normal - II | | Load Sharing: Deck: Vibration: | No Not Checked Not Checked | | | | | | | | |
| General Load Floor Live: | 40 PSF | | VIDIALIOII. | Not Checked | Bear | ings and F | actored I | Rea | ctions | | | |
| Dead: | 15 PSF | | | | Bea | ring Length | Dir. (| Сар | React D/L Ib | Total | Ld. Case | Ld. Comb. |
| | | | | | 1 - : | SPF 5.250" | Vert | 5% | 281 / 312 | 593 | L | 1.25D+1.5L +S |
| Analysis Res | | | | | 2 - : | SPF 2.375" | Vert | 5% | 126 / 112 | 238 | L | 1.25D+1.5S +L |
| , | Actual | Location | | • | | | | | | | | |
| Moment | 215 ft-lh | 1'3 5/8" | 31853 ft-lh 0 007 | (1%) 1 25D+1 5S | ı | | | | | | | |

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|---------------|---------------------|----------|---------------|------------|------------------|---------|
| Moment | 215 ft-lb | 1'3 5/8" | 31853 ft-lb | 0.007 (1%) | 1.25D+1.5S +L | L |
| Unbraced | 215 ft-lb | 1'3 5/8" | 31853 ft-lb | 0.007 (1%) | 1.25D+1.5S +L | L |
| Shear | 237 lb | 1'5 1/8" | 11895 lb | 0.020 (2%) | 1.25D+1.5S +L | L |
| Perm Defl in. | 0.000 (L/336504) | 1'3 5/8" | 0.062 (L/360) | 0.001 (0%) | D | Uniform |
| LL Defl inch | 0.000 (L/430168) | 1'3 5/8" | 0.062 (L/360) | 0.001 (0%) | L+0.5S | L |
| TL Defl inch | 0.000 (L/188807) | 1'3 5/8" | 0.093 (L/240) | 0.001 (0%) | D+L+0.5S | L |

Design 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

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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





ZADORRA ESTATES OSHAWA,ON

Address:

Project #:

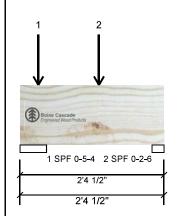
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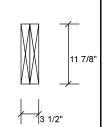
is De Oct 30 2023

1.750" X 11.875"

2-Ply - PASSED

Level: Second Floor





| I D | Load Type | Location | Trib Width | Side | Dead | Live | Snow | Wind | Comments |
|------------|-------------|----------|------------|-----------|----------------|----------------|---------------|------|----------|
| 1 | Point | 0-3-10 | | Near Face | 120 lb | 113 l b | 21 l b | 0 lb | J1 |
| 2 | Point | 1-3-10 | | Near Face | 177 l b | 110 l b | 77 l b | 0 lb | J1 |
| | Self Weight | | | | 12 PLF | | | | |

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Handling & Installation

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6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

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

Manufacturer Info

www.bc.com CCMC: 12472

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



CSD DESIGN

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.

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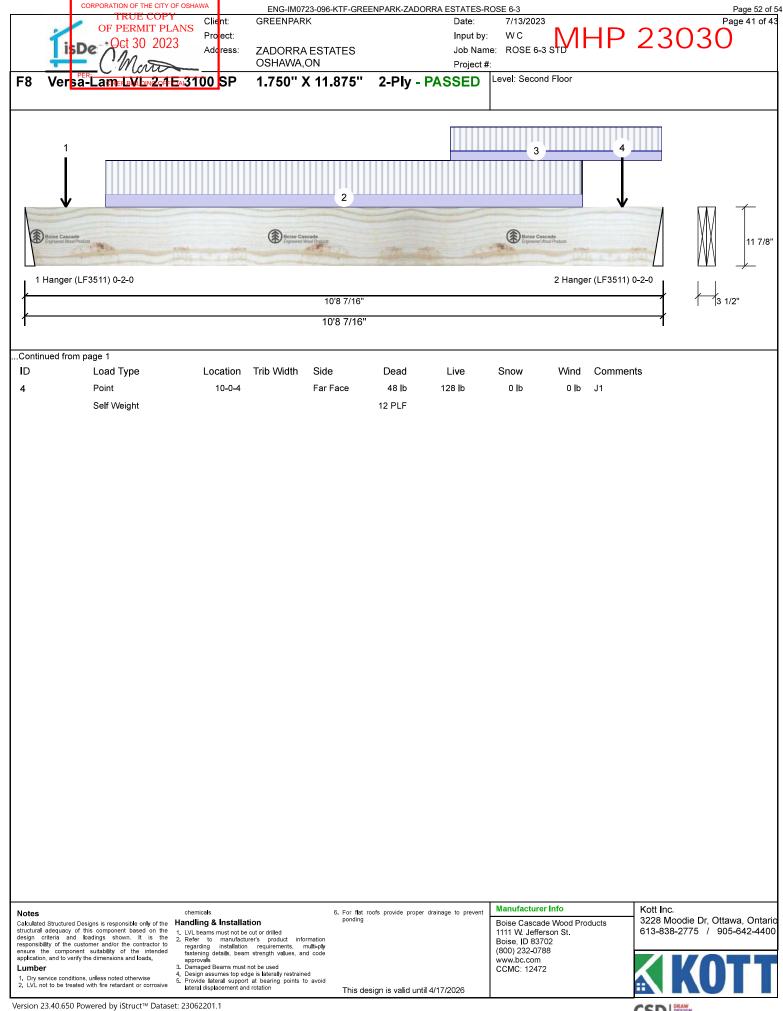
CIVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

Damaged Beams must not be used Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

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CSD DESIGN



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Kott Inc.

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



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