Page 1 of 44



PLEASE READ ALL NOTES PRIOR TO INSTALLATION OF THE COMPONENT

RESPONSIBILTIES

THE RESPONSIBILITY OF THE UNDERSIGNED ENGINEER IS ONLY LIMITED TO THE CALCULATION OF THIS BUILDING COMPONENT FOR THE LOADS AND CONDITIONS SHOWN ON THIS DRAWING.

THE RESPONSIBILITY OF THE UNDERSIGNED IS LIMITED TO THE VERIFICATION OF THE STRUCTURAL CAPACITY OF THE FLOOR JOISTS AND LVL BEAMS BASED ON PLACEMENT AS SHOWN ON THE LAYOUT. THE LOADS APPLIED ARE LIMITED TO THE GRAVITY EFFECTS OF THE SPECIFIED LOADS. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE EFFECT OF WIND, UPLIFT, SEISMIC, LATERAL OR OTHER FORCES, CALCULATION OF ADEQUATE SUPPORT AND ANCHORAGE OF COMPONENTS, AS WELL AS THE DIMENSIONS AND DESIGN LOADS USED TO CALCULATE COMPONENTS ARE THE RESPONSIBILITY OF THE OVERALL BUILDING DESIGNER. FLOOR JOISTS AND OSB RIM BOARD ARE DESIGNED TO CARRY UNIFORMLY DISTRIBUTED LOADS ONLY. POINT LOADS SHOULD BE TRANSFERRED THROUGH THE FLOOR CAVITY WITH TRANSFER BLOCKS. STRUCTURAL ELEMENTS SUCH AS WALLS, POSTS, CONNECTORS, AND TRANSFER BLOCKS ARE THE RESPONSIBILITY OF THE OVERALL BUILDING DESIGNER.

THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF BEING FURNISHED FAULTY OR INCORRECT INFORMATION, SPECIFICATIONS AND/OR DESIGNS.

COMPONENT DESIGN INFORMATION

- 1. THIS BUILDING COMPONENT IS CERTIFIED AS AN INDIVIDUAL COMPONENT FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE BASED ON INFORMATION PROVIDED BY KOTT DESIGN.
- 2. THE BUILDING COMPONENT USED IN CONSTRUCTION MUST BE THE SAME AS INDICATED ON THE DRAWINGS.
- 3. UNLESS NOTED OTHERWISE ON THE LAYOUT OR BEAM CALCULATION SHEET, MEMBERS CONSISTING OF MULTIPLE PLIES MUST BE CONNECTED AS PER THE DOCUMENT "MULTIPLE MEMBER CONNECTION DETAILS" SHOWN ON PAGE 2 OF THIS DOCUMENT.
- 4. PASS-THRU TRANSFER BLOCK FRAMING IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.
- 5. IT IS ASSUMED THAT EACH LVL BEAM WHERE NOT SEATED IN A HANGER IS ATTACHED USING (4) FOUR 3-1/4" COMMON SPIRAL NAILS FOR UP TO 5.5" LONG BEARINGS AND USING (6) SIX 3-1/4" COMMON SPIRAL NAILS FOR BEARINGS EQUAL TO OR LONGER THAN 5.5", UNLESS INDICATED OTHERWISE.

CODE

THIS BUILDING COMPONENT IS DESIGNED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA, THE ONTARIO BUILDING CODE, CCMC AND CANADIAN STANDARDS ASSOCIATION GUIDELINES.

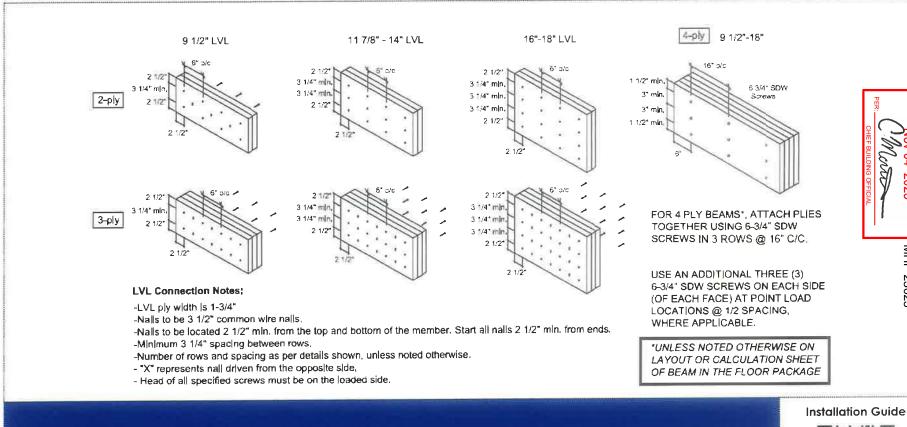
HANDLING AND INSTALLATION

- 1. DO NOT DRILL ANY HOLE, CUT OR NOTCH A CERTIFIED BUILDING COMPONENT WITHOUT A WRITTEN PRE-AUTHORIZATION.
- 2. INSTALLATION AND ASSEMBLY OF FLOOR JOISTS AND LVL BEAMS IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUFACTURER'S LITERATURE.

MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS



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

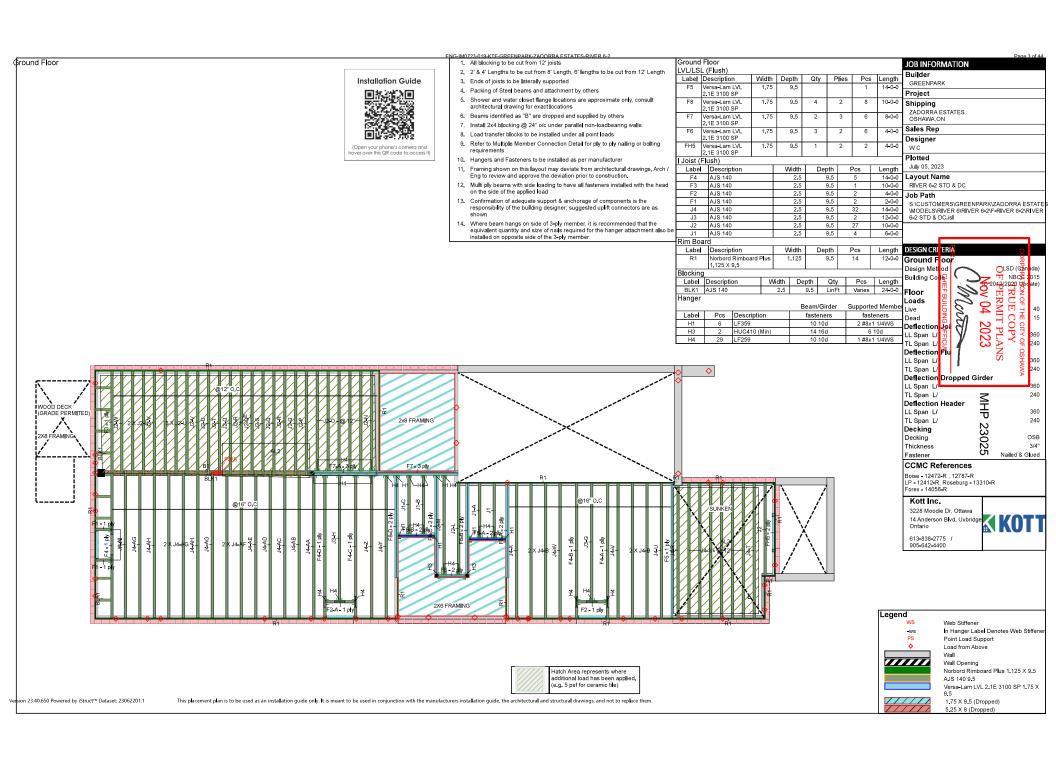


FOR MULTIPLE MEMBER CONNECTION OF BOISE ALLJOISTS REFER TO THE BOISE CASCADE INSTALLATION GUIDE

MHP 23025



(Open your phone's camera and hover over this QR code to access it!





GREENPARKE THE CITY OF OSHAWA ZADORRARESTATES ZADORRAPSTATESNS OSHANOV-04 2023

Date: 7/3/2023 Input by: W C

Job Name: RIVER 6-2 STD & DC

Level: Ground Floor

MHP 23025pject #:

F1 AJS 140 9.500" - PA



1
Boise Cascade Enginetical Wood Products
1 SPF 0-2-6 2 Hanger (LF259) 0-2-0 1'4 5/8"
1 1'4 5/8"
1 1'4 5/8" 1

Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	40	15	0	0
2	Vertical	38	14	0	0

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	18 ft-lb	8 1/2"	4095 ft-lb	0.004 (0%)	1.25D+1.5L	L
Unbraced	18 ft-lb	8 1/2"	4095 ft-lb	0.004 (0%)	1.25D+1.5L	L
Shear	64 lb	1'3 3/8"	1830 l b	0.035 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/199583)	8 1/2"	0.038 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/74844)	8 1/2"	0.038 (L/360)	0.005 (0%)	L	L
TL Defl inch	0.000 (L/54432)	8 1/2"	0.057 (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	2.375"	Vert	5%	19 / 60	79	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	5%	18 / 57	75	L	1.25D+1.5L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Right Header: SPF, Thickness: 2 1/2"

15 PSF

- 4 Girders are designed to be supported on the bottom edge only.
- 5 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 6 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.



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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie_In	0 0 0 to 1 4 10	150	Ton	15 DSE	40 DSE	n DSE	0 DSE	

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

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

F2

Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRARESTATES ZADORRAPSTATESNS OSHANOV 04 2023 9.500" - PA

Date: 7/3/2023 W C Input by:

Job Name: RIVER 6-2 STD & DC

MHP 23025pject #

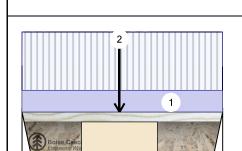
Brg

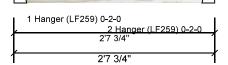
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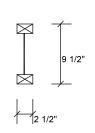
Direction

Vertical

Level: Ground Floor







Snow

0

Wind

0

Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift) Live

199

2	Vertical	190	71	0	0			
_				-	-			
Bearings and Factored Reactions								
D	and a second to	D:- O D-	+ D/I II- T	-4-1 1-1 0	1 -1 0 1-			

Dead

75

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	414 ft-lb	1'3 7/16"	4095 ft-lb	0.101 (10%)	1.25D+1.5L	L
Unbraced	414 ft-lb	1'3 7/16"	4095 ft-lb	0.101 (10%)	1.25D+1.5L	L
Shear	386 lb	1 1/4"	1830 lb	0.211 (21%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/15990)	1'3 7/16"	0.081 (L/360)	0.023 (2%)	D	Uniform
LL Defl inch	0.005 (L/5973)	1'3 7/16"	0.081 (L/360)	0.060 (6%)	L	L
TL Defl inch	0.007 (L/4349)	1'3 7/16"	0.122 (L/240)	0.055 (6%)	D+L	L

, and you	, totaai	Location	,o., ca	Capacity	0011101	Ouco
Moment	414 ft-lb	1'3 7/16"	4095 ft-lb	0.101 (10%)	1.25D+1.5L	L
Unbraced	414 ft-lb	1'3 7/16"	4095 ft-lb	0.101 (10%)	1.25D+1.5L	L
Shear	386 lb	1 1/4"	1830 l b	0.211 (21%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/15990)	1'3 7/16"	0.081 (L/360)	0.023 (2%)	D	Uniform
LL Defl inch	0.005 (L/5973)	1'3 7/16"	0.081 (L/360)	0.060 (6%)	L	L
TL Defl inch	0.007 (L/4349)	1'3 7/16"	0.122 (L/240)	0.055 (6%)	D+L	L

Bearing	Length	Dir.	Cap. R	eact D/L I b	Total	Ld. Case	Ld. Comb.
1 -	2.000"	Vert	25%	93 / 299	392	L	1.25D+1.5L
Hanger							
2 -	2.000"	Vert	24%	89 / 285	374	L	1.25D+1.5L
Hanger							



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.

Design Notes

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

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_3_7		Far Face	115 lb	308 lb	0 lb	Ωlh	13

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. Joist flanges must not be cut or drilled

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

 3. Damaged Juoists must not be used

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

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

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

Kott Inc.







GREENPARKE THE CITY OF OSHAWA ZADORRARESTATES ZADORRAPSTATESNS OSHANOV 04 2023

Date: 7/3/2023 Input by: W C

Job Name: RIVER 6-2 STD & DC

Level: Ground Floor

MHP 23025pject #

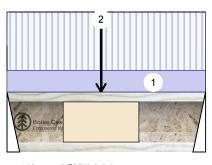
Direction

Vertical

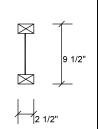
AJS 140 F2-A

9.500" - PAS









Snow

0

Wind

0

Member	Information

ı	Туре:	Girder	Application:	Floor (Residential)
	Plies:	1	Design Method:	LSD
	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
	General Load		Vibration:	Not Checked
	Floor Live:	40 PSF		
ı	Dead:	15 PSF		
ı				

Unfactored Reactions UNPATTERNED lb (Uplift) Live

213

Bea	Bearings and Factored Reactions								
2	Vertical	194	73	0	0				

Dead

80

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	429 ft-lb	1'2 7/8"	4095 ft-lb	0.105 (10%)	1.25D+1.5L	L
Unbraced	429 ft-lb	1'2 7/8"	4095 ft-lb	0.105 (10%)	1.25D+1.5L	L
Shear	412 l b	1 1/4"	1830 l b	0.225 (23%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/15298)	1'2 7/8"	0.080 (L/360)	0.024 (2%)	D	Uniform
LL Defl inch	0.005 (L/5726)	1'2 7/8"	0.080 (L/360)	0.063 (6%)	L	L
TL Defl inch	0.007 (L/4167)	1'2 7/8"	0.121 (L/240)	0.058 (6%)	D+L	L

	, and you	/ lotaul	Location	/ movica	Capacity	COIIID.	Cucc
	Moment	429 ft-lb	1'2 7/8"	4095 ft-lb	0.105 (10%)	1.25D+1.5L	L
	Unbraced	429 ft-lb	1'2 7/8"	4095 ft-lb	0.105 (10%)	1.25D+1.5L	L
	Shear	412 l b	1 1/4"	1830 lb	0.225 (23%)	1.25D+1.5L	L
	Perm Defl in.	0.002 (L/15298)	1'2 7/8"	0.080 (L/360)	0.024 (2%)	D	Uniform
	LL Defl inch	0.005 (L/5726)	1'2 7/8"	0.080 (L/360)	0.063 (6%)	L	L
	TL Defl inch	0.007 (L/4167)	1'2 7/8"	0.121 (L/240)	0.058 (6%)	D+L	L
-							

Bearing	Length	Dir.	Cap. I	React D/L I b	Total	Ld. Case	Ld. Comb.
1 -	2.000"	Vert	26%	100 / 319	419	L	1.25D+1.5L
Hanger							
2 -	2.000"	Vert	24%	91 / 291	382	L	1.25D+1.5L
Hanger							



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.

Design Notes

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: SPF, Thickness: 2 1/2"
- 4 Right Header: SPF, Thickness: 2 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum
- 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	Point	1_2_1/		Far Face	122 lb	326 lh	0 lb	0 lb	13

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. Joist flanges must not be cut or drilled

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

 3. Damaged Juoists must not be used

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

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

This design is valid until 4/17/2026

Manufacturer Info

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

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

Kott Inc.







AJS 140

F3

Client: Project: Address:

9.500" - PA

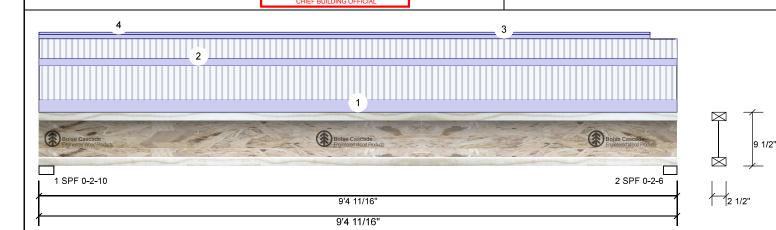
GREENPARKE THE CITY OF OSHAWA ZADORRARESTATES ZADORRAPSTATESNS OSHANOVO 04 202

Date: 7/3/2023 W C Input by:

Job Name: RIVER 6-2 STD & DC

MHP 23025pject #

Level: Ground Floor



Member Information Unfactored Reactions UNPATTERNED Ib (Uplift) Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 1 Design Method: LSD Vertical 229 114 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 228 111 0 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.625" Vert 29% 143 / 343 486 L 1.25D+1.5L 2 - SPF 2.375" Vert 29% 139 / 342 481 I 1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1068 ft-lb	4'8 7/16"	4095 ft-lb	0.261 (26%)	1.25D+1.5L	L
Unbraced	1068 ft-lb	4'8 7/16"	4095 ft-lb	0.261 (26%)	1.25D+1.5L	L
Shear	470 lb	1 7/8"	1830 l b	0.257 (26%)	1.25D+1.5L	L
Perm Defl in.	0.025 (L/4340)	4'8 1/2"	0.303 (L/360)	0.083 (8%)	D	Uniform
LL Defl inch	0.051 (L/2162)	4'8 1/2"	0.303 (L/360)	0.167 (17%)	L	L
TL Defl inch	0.076 (L/1443)	4'8 1/2"	0.455 (L/240)	0.166 (17%)	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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 9-4-11	0-9-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 9-4-11	0-5-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-0-0 to 8-11-15		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 8-11-15		Тор	2 PLF	0 PLF	0 PLF	0 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
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

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

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

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

This design is valid until 4/17/2026

Manufacturer Info

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

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

Kott Inc.





AJS 140

Client: Project: Address:

9.500" - PA

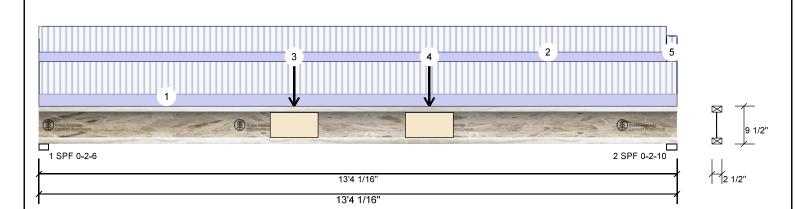
GREENPARKE THE CITY OF OSHAWA ZADORRANESTATES ZADORRAPSTATESNS OSHANOV-04 2023

7/3/2023 Date: W C Input by:

Job Name: RIVER 6-2 STD & DC

MHP 23025pject #

Level: Ground Floor



Member Information Unfactored Reactions UNPATTERNED Ib (Uplift) Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: Design Method: LSD Vertical 406 152 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 407 152 0 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.375" Vert 48% 190 / 609 799 L 1.25D+1.5L 2 - SPF 2.625" Vert 47% 190 / 610 800 I 1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2699 ft-lb	6'7 13/16"	4095 ft-lb	0.659 (66%)	1.25D+1.5L	L
Unbraced	2699 ft-lb	6'7 13/16"	4095 ft-lb	0.659 (66%)	1.25D+1.5L	L
Shear	785 l b	13'2 3/16"	1830 lb	0.429 (43%)	1.25D+1.5L	L
Perm Defl in	0.095 (L/1643)	6'7 15/16"	0.435 (L/360)	0.219 (22%)	D	Uniform
LL Defl inch	0.255 (L/614)	6'7 15/16"	0.435 (L/360)	0.586 (59%)	L	L
TL Defl inch	0.350 (L/447)	6'7 15/16"	0.652 (L/240)	0.537 (54%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o c
- 4 Bottom flange must be laterally braced at a maximum of 5'4" 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 13-4-1	0-9-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 13-1-7	0-7-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	5-4-0		Far Face	14 l b	38 lb	0 lb	0 lb	F1
4	Point	8-1-15		Far Face	14 l b	38 lb	0 lb	0 lb	F1
5	Tie-In	13-1-7 to 13-4-1	0-5-6	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 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

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

www.bc.com CCMC: 12787

Manufacturer Info

Kott Inc.

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





Wind

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

0

0

Page 6 of 40



AJS 140

Client: Project: Address:

9.500" -

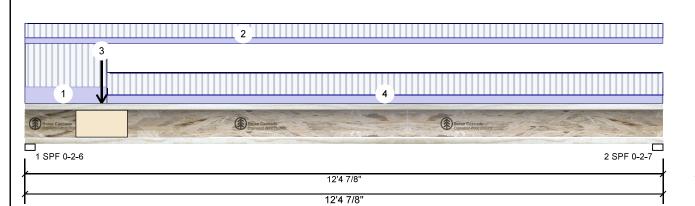
GREENPARKE THE CITY OF OSHAWA ZADORRARESTATES ZADORRAPSTATES OSHANOV 04 2023

Date: 7/3/2023 Input by: W C

Job Name: RIVER 6-2 STD & DC

MHP 23025pject #

Level: Ground Floor



Unfactored Reactions UNPATTERNED Ib (Uplift)

Member Info	rmation		Unfactored Reactions UNPATTERNED lb (Uplift)								
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead		Snow	
Plies:	1	Design Method:	LSD	1	Vertical		511	191		0	
Moisture Conditi	ion: Dry	Building Code:	NBCC 2015	2	Vertical		324	122		0	
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bea	rings and F	actore	d React	ions			
Dead:	15 PSF			Ве	aring Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	
				1 -	SPF 2.375"	Vert	61%	239 / 767	1006	L	
				_ ر ا	SPF 2 438"	Vert	38%	152 / 486	638	1	

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2048 ft-lb	5'8 9/16"	4095 ft-lb	0.500 (50%)	1.25D+1.5L	L
Unbraced	2048 ft-lb	5'8 9/16"	4095 ft-lb	0.500 (50%)	1.25D+1.5L	L
Shear	985 l b	1 5/8"	1830 lb	0.538 (54%)	1.25D+1.5L	L
Perm Defl in	0.065 (L/2238)	6' 7/16"	0.404 (L/360)	0.161 (16%)	D	Uniform
LL Defl inch	0.174 (L/839)	6' 7/16"	0.404 (L/360)	0.429 (43%)	L	L
TL Defl inch	0.239 (L/610)	6' 7/16"	0.606 (L/240)	0.393 (39%)	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 10'11" 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 12-4-14	0-5-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-14		Far Face	71 l b	190 l b	0 lb	0 lb	F2
4	Tie-In	1-7-2 to 12-4-14	0-8-13	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 IJoist product information
 details for framing details, stiffener tables, web hole
 chart, bridging details, multi-rily fastening details and
 handling/erection details

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

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

This design is valid until 4/17/2026

Manufacturer Info

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

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

Kott Inc.







GREENPARKE THE CITY OF OSHAWA ZADORRARESTATES ZADORRAPSTATESNS OSHANOV 04 2023

Date: 7/3/2023 W C Input by:

Job Name: RIVER 6-2 STD & DC

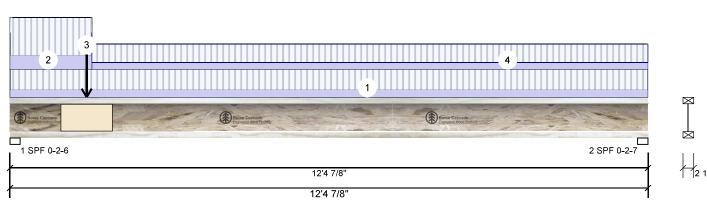
MHP 23025pject #

Level: Ground Floor

AJS 140

9.500" -





Brg

1

2

Direction

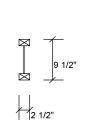
Vertical

Vertical

Bearing Length

1 - SPF 2.375"

2 - SPF 2.438"



Snow

Total Ld. Case

1146 L

760 L

0

0

Wind

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

0

0

Member Information

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

Unfactored Reactions UNPATTERNED Ib (Uplift) Live

582

386

69%

46%

Dir.

Vert

Vert

Bearings and Factored Reactions	

273 / 873

181 / 579

Cap. React D/L lb

Dead

219

145

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	2415 ft-lb	5'9 5/16"	4095 ft-lb	0.590 (59%)	1.25D+1.5L	L
Unbraced	2415 ft-lb	5'9 5/16"	4095 ft-lb	0.590 (59%)	1.25D+1.5L	L
Shear	1123 lb	1 5/8"	1830 l b	0.614 (61%)	1.25D+1.5L	L
Perm Defl in.	0.077 (L/1898)	6' 11/16"	0.404 (L/360)	0.190 (19%)	D	Uniform
LL Defl inch	0.204 (L/712)	6' 11/16"	0.404 (L/360)	0.505 (51%)	L	L
TL Defl inch	0.281 (L/518)	6' 11/16"	0.606 (L/240)	0.463 (46%)	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 10'11" o.c.



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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 12-4-14	0-9-2	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	75 l b	199 l b	0 lb	0 lb	F2	
4	Tie-In	1-7-2 to 12-4-14	0-8-6	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 IJoist product information
 details for framing details, stiffener tables, web hole
 chart, bridging details, multi-rily fastening details and
 handling/erection details

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

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

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

www.bc.com CCMC: 12787

Manufacturer Info

Kott Inc.

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





0

0

Page 8 of 40



Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRANESTATES ZADORRAPSTATESNS OSHANOVOM 202

7/3/2023 Date: W C Input by:

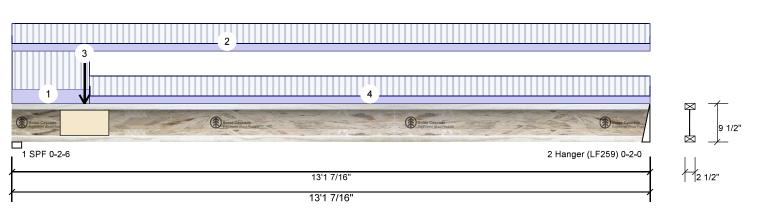
Job Name: RIVER 6-2 STD & DC

MHP 23025pject #

Level: Ground Floor

9.500" -**AJS 140**





Member Information Unfactored Reactions UNPATTERNED Ib (Uplift) Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 1 Design Method: LSD 227 Vertical 604 0 1 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 411 154 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.375" Vert 72% 283 / 907 1190 L 1.25D+1.5L 2 -2.000" Vert 51% 192 / 616 808 L 1.25D+1.5L Analysis Results Hanger

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2716 ft-lb	6'2 5/16"	4095 ft-lb	0.663 (66%)	1.25D+1.5L	L
Unbraced	2716 ft-lb	6'2 5/16"	4095 ft-lb	0.663 (66%)	1.25D+1.5L	L
Shear	1167 lb	1 5/8"	1830 lb	0.637 (64%)	1.25D+1.5L	L
Perm Defl in.	0.096 (L/1612)	6'5 3/8"	0.429 (L/360)	0.223 (22%)	D	Uniform
LL Defl inch	0.256 (L/605)	6'5 3/8"	0.429 (L/360)	0.595 (60%)	L	L
TL Defl inch	0.351 (L/440)	6'5 3/8"	0.644 (L/240)	0.546 (55%)	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: 5 1/4"
- 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 11'7 9/16" o.c.



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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-7-2	1-5-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 13-1-7	0-8-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-14		Far Face	73 lb	194 l b	0 lb	0 lb	F2

Top

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

Tie-In

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

Handling & Installation

1-7-2 to 13-1-7 0-8-14

- 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.

40 PSF

15 PSF

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

This design is valid until 4/17/2026

Manufacturer Info

0 PSF

Boise Cascade Wood Products 1111 W. Jefferson St.

0 PSF

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

Kott Inc.







GREENPARKE THE CITY OF OSHAWA ZADORRANESTATES ZADORRAPSTATESNS OSHANOV 04 2023

7/3/2023 Date: W C Input by:

Job Name: RIVER 6-2 STD & DC

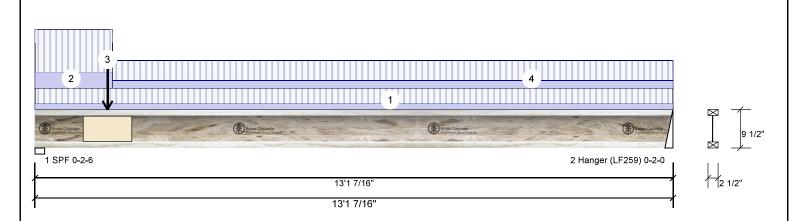
MHP 23025pject #

Level: Ground Floor

AJS 140

9.500" -





Floor (Residential)

OBC 2012(2020 Update)

NBCC 2015

Not Checked

Not Checked

LSD

Member Information

Application: Type: Plies: 1 Design Method: Moisture Condition: Dry **Building Code:** Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Importance: Normal - II Vibration: General Load

Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	547	205	0	0
2	Vertical	335	126	0	0

Bearings and Factored Reactions

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.375" Vert 65% 257 / 820 1077 L 1.25D+1.5L 2 -2.000" Vert 42% 157 / 503 660 L 1.25D+1.5L Hanger

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2263 ft-lb	6' 5/8"	4095 ft-lb	0.553 (55%)	1.25D+1.5L	L
Unbraced	2263 ft-lb	6' 5/8"	4095 ft-lb	0.553 (55%)	1.25D+1.5L	L
Shear	1057 l b	1 5/8"	1830 lb	0.577 (58%)	1.25D+1.5L	L
Perm Defl in	0.080 (L/1929)	6'4 13/16"	0.429 (L/360)	0.187 (19%)	D	Uniform
LL Defl inch	0.214 (L/723)	6'4 13/16"	0.429 (L/360)	0.498 (50%)	L	L
TL Defl inch	0.294 (L/526)	6'4 13/16"	0.644 (L/240)	0.456 (46%)	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: 5 1/4"
- 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 11'7 9/16" o.c.



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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 13-1-7	0-6-2	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	Point	1-5-14		Near Face	80 lb	213 lb	0 lb	0 lb	F2
4	Tie-In	1_7_2 to 13_1_7	0-8-1	Ton	15 DSE	40 DSE	0 DSE	0 DSE	

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 Lioist product information details for framing details. stifferer tables, web hole chart, bridging details. multi-qly fastening details and handling/erection details

 3. Damaged Lioists must not be used

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

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

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

Kott Inc.





Page 10 of 40



F5

Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATES OSHANOV 04 2023

Date: 7/3/2023 Input by: WС

Job Name: RIVER 6-2 STD & DC

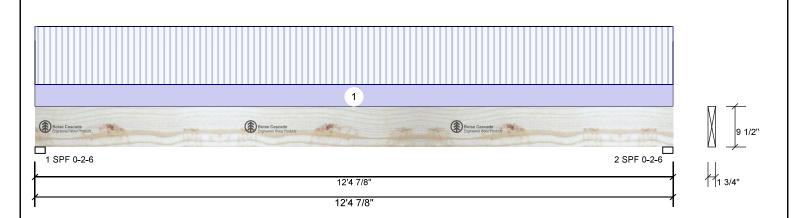
MHP 23025pject #

Versa-Lam LVL 2.1E 3100 SP



- PASSED

Level: Ground Floor



Member Inform	mation			Unfa	actored Rea	actions l	JNP	ATTERNED II	b (Upl	ift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Li	ve	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	1	20	74		0	0
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical	1	20	74		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bear	rings and Fa	actored	Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	11%	93 / 180	273	L	1.25D+1.5L
				2 -	SPF 2.398"	Vert	11%	93 / 180	273	L	1.25D+1.5L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	809 ft-lb	6'2 7/16"	11610 ft-lb	0.070 (7%)	1.25D+1.5L	L
Unbraced	809 ft-lb	6'2 7/16"	11610 ft-lb	0.070 (7%)	1.25D+1.5L	L
Shear	234 lb	11 7/8"	5287 lb	0.044 (4%)	1.25D+1.5L	L
Perm Defl in.	0.022 (L/6502)	6'2 7/16"	0.404 (L/360)	0.055 (6%)	D	Uniform
LL Defl inch	0.036 (L/4030)	6'2 7/16"	0.404 (L/360)	0.089 (9%)	L	L
TL Defl inch	0.059 (L/2488)	6'2 7/16"	0.607 (L/240)	0.096 (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.

Location

0-0-0 to 12-4-14 0-5-13

- 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 Load Type

Tie-In

I.MATIJEVIC 100528832 NCE OF OF JULY 04, 2023

PROFESSION

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.

Wind Comments Snow

0 PSF

0 PSF

Self Weight

5 PLF

Trib Width

Side

Тор

ID

1

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

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Dead

15 PSF

Live

40 PSF

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





Page 11 of 40



Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRARESTATESY ZADORRAPSTATESNS OSHANOV-04 2023

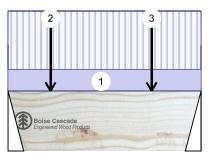
7/3/2023 Date: WС Input by:

Job Name: RIVER 6-2 STD & DC

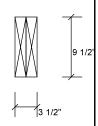
MHP 23025pject #:

Level: Ground Floor -P v - PASSED

Versa-Lam LVL 2.1E 3100 SP



1 Hanger (HUC410 (Min)) 0-2-8 2 Hanger (HUC410 (Min)) 0-2'6 9/16" 2'6 9/16"



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			

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	288	120	0	0
2	Vertical	268	113	0	0

Analysis Results

ı	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
l	Moment	267 ft-lb	1'4 1/8"	23220 ft-lb	0.011 (1%)	1.25D+1.5L	L
l	Unbraced	267 ft-lb	1'4 1/8"	23220 ft-lb	0.011 (1%)	1.25D+1.5L	L
l	Shear	432 lb	1'	10574 lb	0.041 (4%)	1.25D+1.5L	L
l	Perm Defl in.	0.000 (L/221628)	1'3 3/8"	0.075 (L/360)	0.002 (0%)	D	Uniform
l	LL Defl inch	0.000 (L/92648)	1'3 3/8"	0.075 (L/360)	0.004 (0%)	L	L
l	TL Defl inch	0.000 (L/65335)	1'3 3/8"	0.113 (L/240)	0.004 (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	2.500"	Vert	6%	150 / 432	582	L	1.25D+1.5L
2 - Hanger	2.500"	Vert	6%	141 / 402	543	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 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 have sheathing attached or be continuously braced.
- 10 Lateral slenderness ratio based on full section width.

Notes

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

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

Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

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





Page 12 of 40



Client: Project: Address:

GREENPARKE THE CITY OF OSHAWA ZADORRARESTATES ZADORRAPESTAPLANS 0SHANOV 04 2023 1.7 Mortio

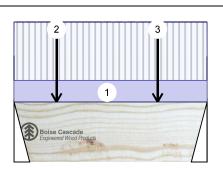
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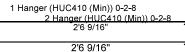
Job Name: RIVER 6-2 STD & DC

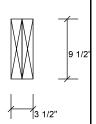
MHP 23025pject #:

-Py - PASSED Level: Ground Floor

Versa-Lam LVL 2.1E 3100 SP







ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-6-9	1-10-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-6-12		Far Face	70 lb	187 l b	0 lb	0 l b	J2
3	Point	1-10-12		Far Face	67 l b	178 l b	0 lb	0 l b	J2
	Self Weight				9 PLF				



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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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

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

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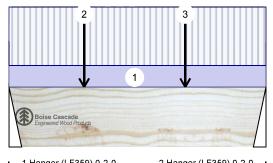
7/3/2023 Date: W C Input by:

Job Name: RIVER 6-2 STD & DC

MHP 23025pject #

2 Ply - PASSED

Level: Ground Floor



	1 Hanger (LF359) 0-2-0 2	Hanger (LF359) 0-2-0	
	3'4 11/16"	1	
,		L	
	3'4 11/16"	1	

Member Information Type: Plies: 2

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

General Load

40 PSF Floor Live: 15 PSF Dead:

Application: Floor (Residential)

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

OBC 2012(2020 Update) Load Sharing:

Not Checked Deck:

Vibration: Not Checked

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	409 ft-lb	1'8 15/16"	23220 ft-lb	0.018 (2%)	1.25D+1.5L	L
Unbraced	409 ft-lb	1'8 15/16"	23220 ft-lb	0.018 (2%)	1.25D+1.5L	L
Shear	365 lb	11 1/2"	10574 lb	0.034 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/112651)	1'8 3/8"	0.106 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/48588)	1'8 3/8"	0.106 (L/360)	0.007 (1%)	L	L
TL Defl inch	0.001 (L/33946)	1'8 3/8"	0.159 (L/240)	0.007 (1%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Right Header: DF, Thickness: 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.

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	240	106	0	0
2	Vertical	236	104	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. R	eact D/L I b	Total	Ld. Case	Ld. Comb.
1 -	2.000"	Vert	6%	132 / 361	493	L	1.25D+1.5L
Hanger							
2 -	2.000"	Vert	6%	130 / 354	484	L	1.25D+1.5L
Hanger							



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Notes

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

Handling & Installation

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

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

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

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Kott Inc.





Page 14 of 40



Client: Project: Address:

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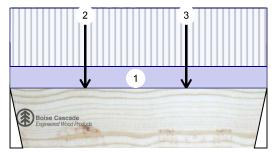
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MHP 23025pject #:

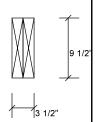
2 Ply - PASSED

Level: Ground Floor



Versa-Lam LVL 2.1E 3100 SP





I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-4-11		Тор	25 PLF	67 PLF	0 PLF	0 PLF	
2	Point	0-11-14		Far Face	46 l b	123 lb	0 lb	0 lb	J1
3	Point	2-3-14		Far Face	47 l b	126 l b	0 lb	0 lb	J1
	Self Weight				9 PLF				



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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

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





Page 15 of 40



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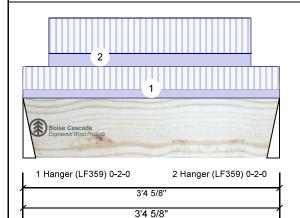
GREENPARKE THE CITY OF OSHAWA ZADORRAPESTATES Y ZADORRAPSTATESNS OSHANOV-04 2023

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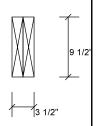
Job Name: RIVER 6-2 STD & DC

MHP 23025pject #:

2-Ply - PASSED Level: Ground Floor



Versa-Lam LVL 2.1E 3100 SP



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	252	111	0	0
2	Vertical	249	110	0	0

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	431 ft-lb	1'8 5/16"	23220 ft-lb	0.019 (2%)	1.25D+1.5L	L
Unbraced	431 ft-lb	1'8 5/16"	23220 ft-lb	0.019 (2%)	1.25D+1.5L	L
Shear	377 l b	2'5 1/8"	10574 lb	0.036 (4%)	1.25D+1.5L	L
Perm Defl in	0.000 (L/110348)	1'8 1/4"	0.106 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/47799)	1'8 1/4"	0.106 (L/360)	0.008 (1%)	L	L
TL Defl inch	0.001 (L/33352)	1'8 1/4"	0.159 (L/240)	0.007 (1%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	7%	139 / 378	517	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	7%	137 / 374	511	L	1.25D+1.5L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 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.



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Notes

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

Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

Kott Inc.

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Page 16 of 40



F6-B

Client: Project: Address:

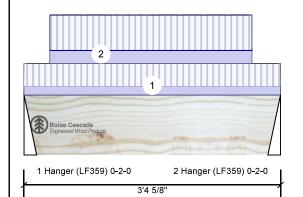
GREENPARKE THE CITY OF OSHAWA ZADORRARESTATES ZADORRAPESTAPESNS OSHANOVO4 2023

Date: 7/3/2023 Input by: WС

Job Name: RIVER 6-2 STD & DC

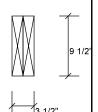
MHP 23025pject #:

2-Ply - PASSED Level: Ground Floor



3'4 5/8'

Versa-Lam LVL 2.1E 3100 SP



1 Part. Uniform 0-0-0 to 3-4-10 Top 25 PLF 67 PLF 0 PLF 0 PLF 2 Part. Uniform 0-4-1 to 3-0-1 Far Face 39 PLF 103 PLF 0 PLF 0 PLF	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
2 Part. Uniform 0-4-1 to 3-0-1 Far Face 39 PLF 103 PLF 0 PLF 0 PLF	1	Part. Uniform	0-0-0 to 3-4-10		Тор	25 PLF	67 PLF	0 PLF	0 PLF	
	2	Part. Uniform	0-4-1 to 3-0-1		Far Face	39 PLF	103 PLF	0 PLF	0 PLF	
Self Weight 9 PLF		Self Weight				9 PLF				



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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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

Boise, ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

Kott Inc.

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







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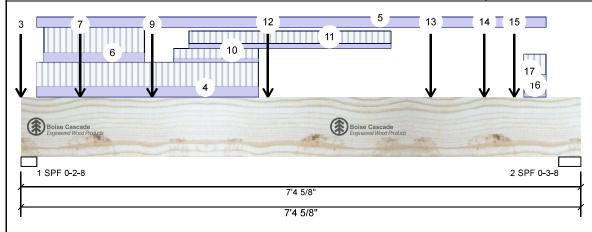
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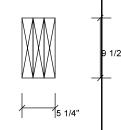
MHP 23025pject #

Versa-Lam LVL 2.1E 3100 SP

-Plv - PASSED

Level: Ground Floor





Member Information

Type:	Girder
Plies:	3
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

40 PSF 15 PSF

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

Load Sharing: Deck:

Vibration:

Not Checked Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	2257	1400	0	0
2	Vertical	1620	1074	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.500"	Vert	64%	1750 / 3385	5136	L	1.25D+1.5L
2 - SPF	3.500"	Vert	33%	1343 / 2431	3774	L	1.25D+1.5L

Analysis Results

Floor Live:

Dead:

-						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7551 ft-lb	3'3 1/8"	36222 ft-lb	0.208 (21%)	1.25D+1.5L	L
Unbraced	7551 ft-lb	3'3 1/8"	36222 ft-lb	0.208 (21%)	1.25D+1.5L	L
Shear	4418 l b	1'	15860 lb	0.279 (28%)	1.25D+1.5L	L
Perm Defl in.	0.024 (L/3526)	3'6 5/16"	0.234 (L/360)	0.102 (10%)	D	Uniform
LL Defl inch	0.037 (L/2301)	3'5 3/4"	0.234 (L/360)	0.156 (16%)	L	L
TL Defl inch	0.060 (L/1392)	3'6"	0.351 (L/240)	0.172 (17%)	D+L	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 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 have sheathing attached or be continuously braced.
- 8 Lateral slenderness ratio based on full section width.



JULY 05, 2023

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Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
Point	0-0-0		Тор	9 lb	0 lb	0 lb	0 l b	Wall Self Weight
Bearing Length	0-5-8							
Point	0-0-0		Тор	9 lb	0 lb	0 lb	0 l b	Wall Self Weight
Bearing Length	0-5-8							
	Point Bearing Length Point	Point 0-0-0 Bearing Length 0-5-8 Point 0-0-0	Point 0-0-0 Bearing Length 0-5-8 Point 0-0-0	Point 0-0-0 Top Bearing Length 0-5-8 Point 0-0-0 Top	Point 0-0-0 Top 9 lb Bearing Length 0-5-8 Point 0-0-0 Top 9 lb	Point 0-0-0 Top 9 lb 0 lb Bearing Length 0-5-8 Point 0-0-0 Top 9 lb 0 lb	Point 0-0-0 Top 9 lb 0 lb 0 lb Bearing Length 0-5-8 Point 0-0-0 Top 9 lb 0 lb 0 lb	Point 0-0-0 Top 9 lb 0 lb 0 lb 0 lb Bearing Length 0-5-8 Point 0-0-0 Top 9 lb 0 lb 0 lb 0 lb 0 lb

Continued on page 2...

Notes

Notes

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

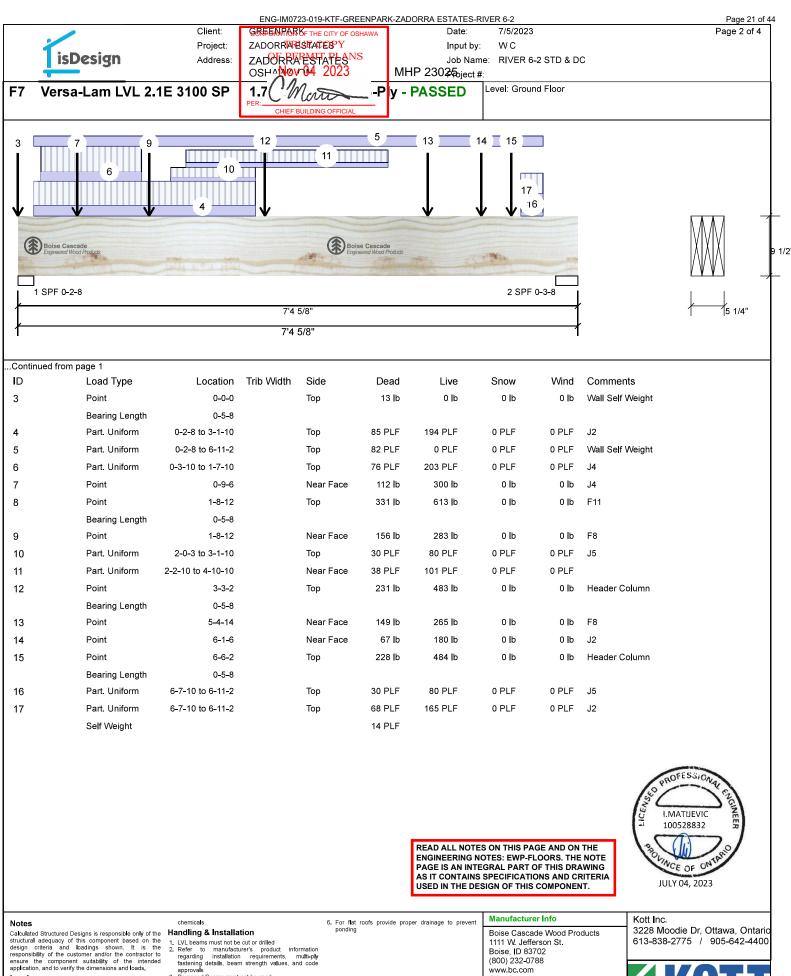
Manufacturer Info Boise Cascade Wood Products

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







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

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

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