

Engineering Notes: EWP-Floors



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.



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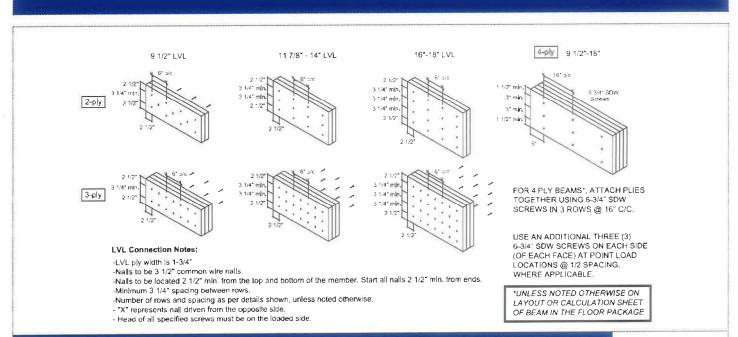
ENG-IM0723-104-KTF-GREENPARK-ZADORRA ESTATES-ROSE 12-3

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

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MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS



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



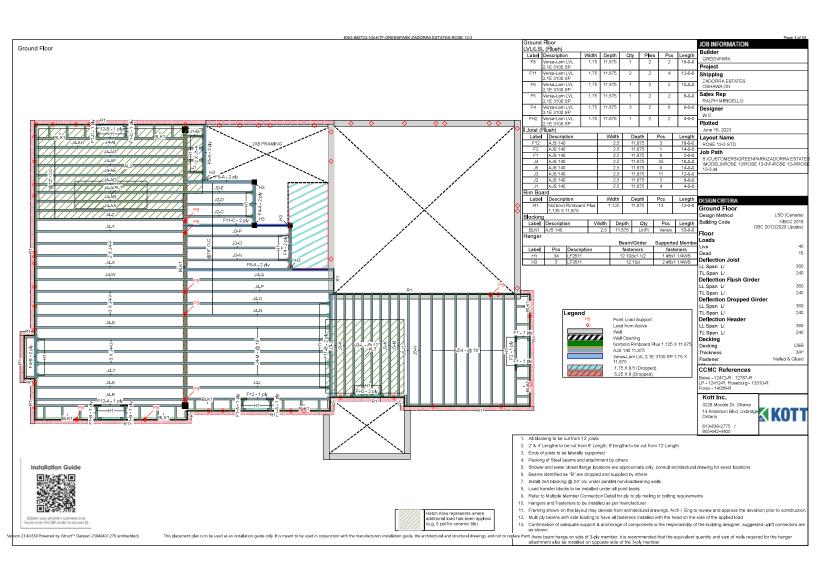


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Last Revised January 13, 2023



MHP 23032



TRUE COPY IIT PLANS

Client: **GREENPARK**

Project: ZADOR**RYISFA EP** OSHAWA,ON Address:

Project #:

Date: 7/14/2023 WC Input by:

Name: ROSE 12-3 STD

87<mark>5" - PASSED</mark>

Level: Ground Floor



1 Hanger (LF2511) 0-2-0 2 ŠPF 0-2-6 1'4 15/16'

11 7/8"

Member	Inform	atior
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1'4 15/16"

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

General Load 40 PSF Floor Live: 15 PSF Dead:

Application: Floor (Residential)

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

Load Sharing: Not Checked Deck:

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	44	16	0	0
2	Vertical	46	17	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. Read	t D/L I b	Total	Ld. Case	Ld. Comb.
1 -	2.000"	Vert	5%	20 / 66	86	L	1.25D+1.5L
Hanger							
2 - SPF	2.375"	Vert	5%	21 / 69	90	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	21 ft-lb	8 1/4"	5305 ft-lb	0.004 (0%)	1.25D+1.5L	L
Unbraced	21 ft-lb	8 1/4"	5305 ft-lb	0.004 (0%)	1.25D+1.5L	L
Shear	73 lb	1 1/4"	2350 lb	0.031 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/224856)	8 5/16"	0.039 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/84321)	8 5/16"	0.039 (L/360)	0.004 (0%)	L	L
TL Defl inch	0.000 (L/61324)	8 5/16"	0.059 (L/240)	0.004 (0%)	D+L	L

Design Notes

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

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	JULY 14, 2023	

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

ID Load Type Location Trib Width Live Snow Wind Comments Tie-In 0-0-0 to 1-4-15 1-7-0 Top 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

This design is valid until 4/17/2026

Manufacturer Info

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

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

Kott Inc.

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





Page 2 of 41

TRUE COPY isDesign 2023

Client: **GREENPARK**

Project: ZADORINA STATES OSHAWA, ON Address:

Input by: Project #:

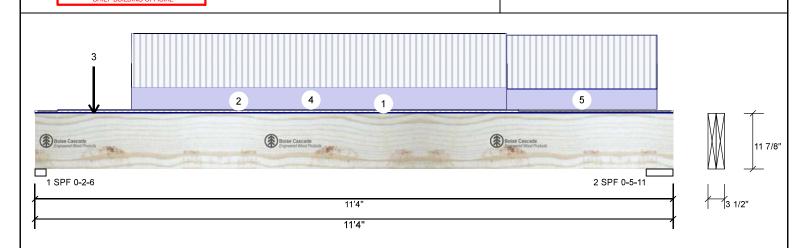
7/14/2023 WC

Name: ROSE 12-3 STD

1.750" X 11.875" 1E 3100 SP

2-Ply - PASSED

Level: Ground Floor



Member Inforn	ember Information					Unfactored Reactions UNPATTERNED lb (Uplift)					
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	I	_ive	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	1	703	802		0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	1	829	821		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bear	rings and F	actored	l Read	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	70%	1002 / 2555	3557	L	1.25D+1.5L
				2 -	SPF 5.699"	Vert	31%	1026 / 2743	3769	L	1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	10000 ft-lb	5'6 1/4"	35392 ft-lb	0.283 (28%)	1.25D+1.5L	L
Unbraced	10000 ft-lb	5'6 1/4"	35392 ft-lb	0.283 (28%)	1.25D+1.5L	L
Shear	4146 lb	1'2 1/4"	13217 l b	0.314 (31%)	1.25D+1.5L	L
Perm Defl in	0.046 (L/2806)	5'6 3/16"	0.359 (L/360)	0.128 (13%)	D	Uniform
LL Defl inch	0.099 (L/1303)	5'6 3/8"	0.359 (L/360)	0.276 (28%)	L	L
TL Defl inch	0.145 (L/890)	5'6 5/16"	0.539 (L/240)	0.270 (27%)	D+L	L

Design Notes

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



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

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 11-4-0	0-3-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-4-14 to 8-7-2		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
3	Point	1-0-9		Far Face	174 l b	421 l b	0 lb	0 l b	J4
4	Part. Uniform	1-8-9 to 8-4-9		Far Face	132 PLF	320 PLF	0 PLF	0 PLF	
5	Part. Uniform	8-4-9 to 11-0-9		Far Face	121 PLF	320 PLF	0 PLF	0 PLF	
	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 information regarding installation requirements, multi-pty fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info 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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Client:

Project: ZADORRAZES Address: OSHAWA, ON

7/14/2023 Input by: WC

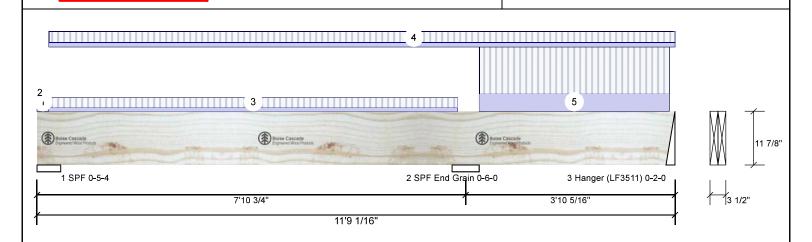
Name: ROSE 12-3 STD

1.750" X 11.875" 3100 SP

GREENPARK

2-Plv - PASSED

Level: Ground Floor



Member Inforn	nation		
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		
I			

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	140	93	0	0
2	Vertical	466	267	0	0
3	Vertical	152	65	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-616 ft-lb	7'10 3/4"	35392 ft-lb	0.017 (2%)	1.25D+1.5L	LL
Unbraced	-616 ft-lb	7'10 3/4"	32757 ft-lb	0.019 (2%)	1.25D+1.5L	LL
Pos Moment	475 ft-lb	3'5 7/16"	33622 ft-lb	0.014 (1%)	1.25D+1.5L	L_
Unbraced	475 ft-lb	3'5 7/16"	33622 ft-lb	0.014 (1%)	1.25D+1.5L	L_
Shear	349 lb	6'7 7/8"	13217 l b	0.026 (3%)	1.25D+1.5L	LL
Perm Defl in.	0.001 (L/84101)	3'8 3/4"	0.251 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch	0.002 (L/46508)	3'10 1/8"	0.251 (L/360)	0.008 (1%)	L	L_
TL Defl inch	0.003 (L/29956)	3'9 5/8"	0.376 (L/240)	0.008 (1%)	D+L	L_

Bearings and Factored Reactions

ı	Bearing	Length	Dir.	Cap. I	React D/L I b	Total	Ld. Case	Ld. Comb.
l	1 - SPF	5.250"	Vert	3%	116 / 223	339	L_	1.25D+1.5L
	2 - SPF End Grain	6.000"	Vert	5%	335 / 702	1037	LL	1.25D+1.5L
	3 - Hanger	2.000"	Vert	5%	80 / 308 388	3 (-20)	_L	1.25D+1.5L (0.9D+1.5L)
ı				10				

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NCE OF JULY 14, 2023

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support

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

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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-rily 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

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





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TRUE COPY isDesign 2023 F11-¢

Client: **GREENPARK**

Project: ZADORINA STATES OSHAWA, ON Address:

Input by: Project #:

7/14/2023

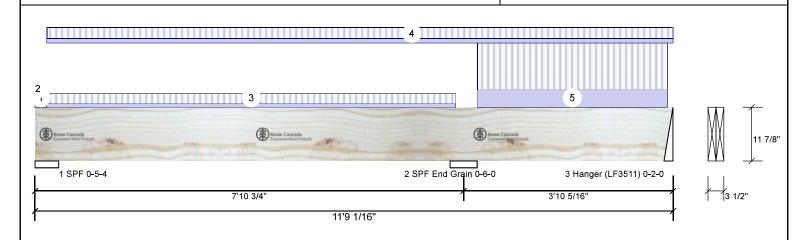
WC Name: ROSE 12-3 STD

1.750" X 11.875" 3100 SP

2-Ply - PASSED

Date:

Level: Ground Floor



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-2-10	0-4-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-2-10	0-3-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-2-10 to 7-9-0	0-6-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	0-2-10 to 11-9-1	0-6-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Part. Uniform	8-1-12 to 11-7-13		Тор	36 PLF	95 PLF	0 PLF	0 PLF	
	Self Weight				12 PLF				



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Handling & Installation

Handling & Installation

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For **fl**at roofs provide proper drainage to prevent ponding

www.bc.com CCMC: 12472

Manufacturer Info

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Kott Inc.

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Client: **GREENPARK** Project:

Address:

ZADORINA STATES OSHAWA, ON

Project #:

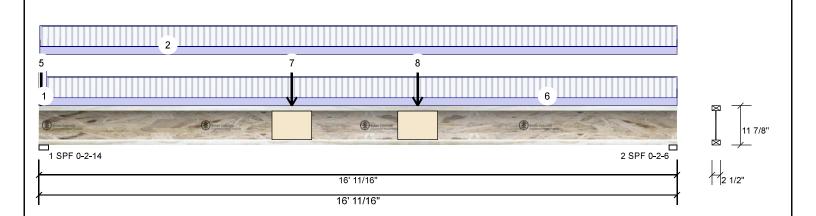
7/14/2023 Input by: WC

Date:

Name: ROSE 12-3 STD

875" - PASSED

Level: Ground Floor



Member Inform	nation			Unfactored Reactions UNPATTERNED lb (Uplift)							
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind		
Plies:	1	Design Method:	LSD	1	Vertical	516	209	0	0		
Moisture Condition:	: Dry	Building Code:	NBCC 2015	2	Vertical	451	169	0	0		
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bear	ings and Fa	actored Read	ctions				
Dead:	15 PSF			Bea	ring Length	Dir. Cap.	React D/L lb	Total Ld. Case	Ld. Comb.		
				1 - 8	SPF 2.875"	Vert 58%	262 / 774	1036 L	1.25D+1.5L		
				2 - 5	SPF 2.388"	Vert 53%	211 / 676	887 L	1.25D+1.5L		
Analysis Result	'C										

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3603 ft-lb	8' 11/16"	5305 ft-lb	0.679 (68%)	1.25D+1.5L	L
Unbraced	3603 ft-lb	8' 11/16"	5305 ft-lb	0.679 (68%)	1.25D+1.5L	L
Shear	876 l b	2 1/8"	2350 lb	0.373 (37%)	1.25D+1.5L	L
Perm Defl in	0.108 (L/1754)	8' 9/16"	0.525 (L/360)	0.205 (21%)	D	Uniform
LL Defl inch	0.288 (L/657)	8' 9/16"	0.525 (L/360)	0.548 (55%)	L	L
TL Defl inch	0.395 (L/478)	8' 9/16"	0.787 (L/240)	0.502 (50%)	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 6'6 5/16" o.c.



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4 Bollom nang	e musi be laterally br	aceu al a maximum	01003/10 0.0	•			-				
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments		
1	Tie-In	0-0-0 to 0-2-6	1-1-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF			
2	Tie-In	0-0-4 to 16-0-11	0-7-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF			
3	Point	0-0-12		Тор	12 l b	29 lb	0 l b	0 l b	J4		
	Bearing Length	0-1-8									
4	Point	0-0-12		Тор	12 l b	30 lb	0 l b	0 l b	J6		
	Bearing Length	0-1-8									
5	Point	0-0-12		Тор	14 l b	0 lb	0 l b	0 l b	Wall Self Weight		
Continued on pag	Continued on page 2										

Notes

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

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

 3. Damaged Jioists must not be used

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

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3,5 inches
 For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

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Client: **GREENPARK** Project:

ZADORINA STATES OSHAWA, ON

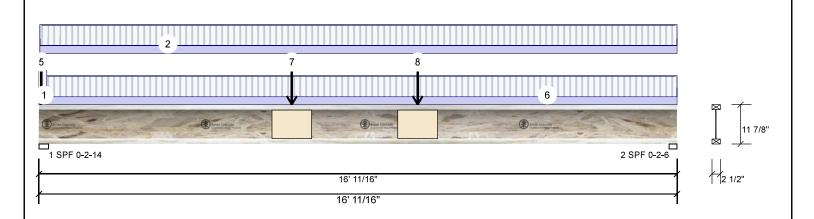
Date: 7/14/2023 Input by: WC

Project #:

Name: ROSE 12-3 STD

875" - PASSED

Level: Ground Floor



ı	Continued from p	page 1								
	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
		Bearing Length	0-1-8							
	6	Tie-In	0-2-6 to 16-0-11	0-7-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	7	Point	6-4-6		Near Face	13 b	35 lb	0 l b	0 l b	F1
ı	8	Point	9-6-6		Near Face	13 lb	35 lb	0 l b	0 l b	F1



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Notes

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Handling & Installation

- Handling & Installation

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 3. Damaged Juoists must not be used

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

This design is valid until 4/17/2026

Manufacturer Info

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

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

Kott Inc.

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



CSD DESIGN

TRUE COPY isDesign 2023

Client: **GREENPARK**

Project:

Address:

ZADORINA STATES OSHAWA,ON

7/14/2023 Input by: WC

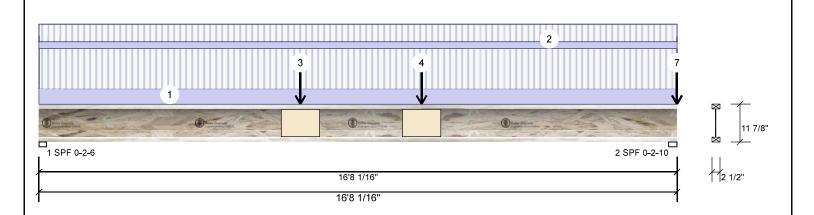
Project #

Date:

Name: ROSE 12-3 STD

875" - PASSED

Level: Ground Floor



Member Inform	nation			Unfactored Reactions UNPATTERNED Ib (Uplift)						
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind	
Plies:	1	Design Method:	LSD	1	Vertical	420	158	0	0	
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	481	197	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. Cap.	. React D/L l b	Total Ld. Case	Ld. Comb.	
				1 -	SPF 2.375"	Vert 49%	198 / 630	828 L	1.25D+1.5L	
Analysis Posults				2 -	SPF 2.625"	Vert 56%	246 / 722	968 L	1.25D+1.5L	

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3564 ft-lb	8'3 3/4"	5305 ft-lb	0.672 (67%)	1.25D+1.5L	L
Unbraced	3564 ft-lb	8'3 3/4"	5305 ft-lb	0.672 (67%)	1.25D+1.5L	L
Shear	818 l b	16'6 3/16"	2350 lb	0.348 (35%)	1.25D+1.5L	L
Perm Defl in	0.115 (L/1714)	8'3 15/16"	0.546 (L/360)	0.210 (21%)	D	Uniform
LL Defl inch	0.304 (L/646)	8'3 15/16"	0.546 (L/360)	0.557 (56%)	L	L
TL Defl inch	0.419 (L/469)	8'3 15/16"	0.819 (L/240)	0.512 (51%)	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 6'9 15/16" o.c.



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i Bottom na	igo illabi bo fatorally bit	0.00.00.0							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 16-8-1	0-9-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 16-8-1	0-4-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	6-9-15		Near Face	17 l b	44 lb	0 lb	0 lb	F1
4	Point	9-11-15		Near Face	17 l b	44 lb	0 lb	0 lb	F1
5	Point	16-8-1		Тор	12 l b	29 lb	0 lb	0 lb	J4
	Bearing Length	0-1-8							
6	Point	16-8-1		Тор	12 l b	30 lb	0 lb	0 lb	J6

Continued on page 2...

Notes

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Handling & Installation

- Handling & Installation

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Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

Kott Inc.

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





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.Continued from page 1

Load Type

Point

Bearing Length

ID

7

Client: **GREENPARK** Project:

Address:

ZADORINA STATES OSHAWA, ON

Date: 7/14/2023 Input by: WC

Project #

Name: ROSE 12-3 STD

.875" - PASSED

Location Trib Width

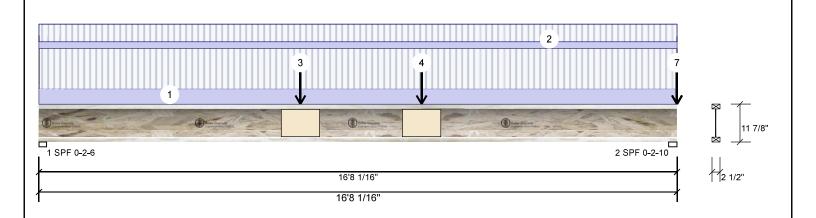
0-1-8

16-8-1

Side

Тор

Level: Ground Floor



Dead

14 lb

Live

0 lb

Snow

0 lb

Wind

0 **b**

Comments

Wall Self Weight

Bearing Length 0-1-8



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

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario



613-838-2775 / 905-642-4400

CSD DESIGN

TRUE COPY isDesign 2023

Client: **GREENPARK**

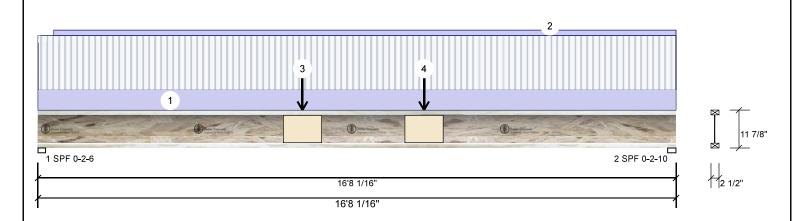
Project: ZADORRA SFATES Address: OSHAWA, ON

Date: 7/14/2023 W C Input by:

Project #

Name: ROSE 12-3 STD

.875" - PASSED Level: Ground Floor



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Type:

Plies: 1 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF

Wind Brg Direction Live Dead Snow Vertical 208 99 0 1 0 2 Vertical 211 101 0 0

Bearings and Factored Reactions

Bearing	Lenath	Dir.	Cap. Re	act D/L l b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	26%	123 / 313	436	L	1.25D+1.5L
2 - SPF	2.625"	Vert	25%	126 / 316	442	L	1.25D+1.5L

Analysis Results

15 PSF

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2001 ft-lb	8'3 5/16"	5305 ft-lb	0.377 (38%)	1.25D+1.5L	L
Unbraced	2001 ft-lb	8'3 5/16"	5305 ft-lb	0.377 (38%)	1.25D+1.5L	L
Shear	435 lb	16'6 3/16"	2350 lb	0.185 (19%)	1.25D+1.5L	L
Perm Defl in.	0.076 (L/2578)	8'4"	0.546 (L/360)	0.140 (14%)	D	Uniform
LL Defl inch	0.159 (L/1235)	8'4"	0.546 (L/360)	0.292 (29%)	L	L
TL Defl inch	0.235 (L/835)	8'4"	0.819 (L/240)	0.287 (29%)	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 6'10 15/16" 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 16-8-1	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-4-15 to 16-8-1		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
3	Point	6-10-15		Far Face	21 lb	43 lb	0 lb	0 l b	F1
4	Point	10-1-0		Far Face	21 l b	43 lb	0 lb	0 lb	F1

Notes

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Dry service conditions, unless noted otherwise
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Handling & Installation

- Handling & Installation

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 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

(800) 232-0788

Manufacturer Info

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

www.bc.com CCMC: 12787

Kott Inc.

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





TRUE COPY isD PERMIT PLANS

Client: **GREENPARK** Project:

Address:

ZADOR**RY SFATE** OSHAWA,ON

Date: 7/14/2023 W C Input by:

Project #:

Name: ROSE 12-3 STD

B75" - PASSED

Level: Ground Floor



11 7/8"

1'1 7/8'

1'1 7/8'

2 Har

		•	
Mem	ner I	ntor	mation
1416111	5 C		

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

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

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

Load Sharing:

Not Checked Deck:

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	38	14	0	0
2	Vertical	35	13	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.442"	Vert	4%	18 / 56	74	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	4%	17 / 53	70	L	1.25D+1.5L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	13 ft-lb	7 1/8"	5305 ft-lb	0.002 (0%)	1.25D+1.5L	L
Unbraced	13 ft-lb	7 1/8"	5305 ft-lb	0.002 (0%)	1.25D+1.5L	L
Shear	57 lb	1 11/16"	2350 lb	0.024 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/295574)	7 3/16"	0.030 (L/360)	0.001 (0%)	D	Uniform
LL Defl inch	0.000 (L/110840)	7 3/16"	0.030 (L/360)	0.003 (0%)	L	L
TL Defl inch	0.000 (L/80611)	7 3/16"	0.046 (L/240)	0.003 (0%)	D+L	L

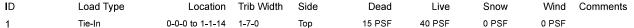
Design Notes

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

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AS IT CONTAINS SPECIFICATIONS AND CRITERIA
USED IN THE DESIGN OF THIS COMPONENT.

I.MATIJEVIC 100528832

CE OF JULY 14, 2023



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Handling & Installation

- Handling & Installation

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This design is valid until 4/17/2026

Manufacturer Info

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

Kott Inc.

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





TRUE COPY is permit plans 100 83 2023

Client: **GREENPARK**

Project: ZADORINA STATES OSHAWA, ON Address:

Project #:

7/14/2023 WC Input by:

Date:

Name: ROSE 12-3 STD

875" - PASSED

Level: Ground Floor



11 7/8"

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

٨	1	em	ber	Info	rmation

1'5 1/16'

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

Floor Live: 40 PSF 15 PSF Dead:

Application: Floor (Residential) Design Method: LSD

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

Load Sharing: Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	46	17	0	0
2	Vertical	44	17	0	0

Cap. React D/L lb

22 / 69

21 / 66

5%

5%

Total Ld. Case

91 L

87 L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	22 ft-lb	8 11/16"	5305 ft-lb	0.004 (0%)	1.25D+1.5L	L
Unbraced	22 ft-lb	8 11/16"	5305 ft-lb	0.004 (0%)	1.25D+1.5L	L
Shear	74 lb	1 5/8"	2350 lb	0.031 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/222704)	8 3/4"	0.039 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/83514)	8 3/4"	0.039 (L/360)	0.004 (0%)	L	L
TL Defl inch	0.000 (L/60737)	8 3/4"	0.059 (L/240)	0.004 (0%)	D+L	L

I.MATIJEVIC 100528832

Bearings and Factored Reactions

Dir.

Vert

Vert

Bearing Length

2.000"

1 - SPF 2.375"

2 -

Hanger

NCE OF JULY 14, 2023

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Design Notes

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- 2 Fill all hanger nailing holes.
- 3 Right Header: SPF, Thickness: 2 1/2"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Tio In	0 0 0 to 1 5 1	170	Ton	15 DCE	40 DSE	0 DSE	U DSE	

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

Kott Inc.

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





TRUE COPY isD PERMIT PLANS

Client: **GREENPARK** Project:

Address:

ZADORINA STATES OSHAWA, ON

Project #:

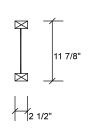
Date: 7/14/2023 WC Input by:

Name: ROSE 12-3 STD

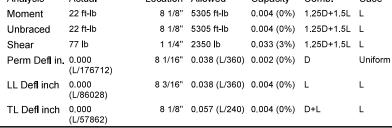
875" - PASSED

Level: Ground Floor





Member Info	ormation						Unfactored Reactions UNPATTERNED lb (Uplift)								
Туре:	Girder		Application:	F	loor (Resident	tial)	Brg	Directio	n	Liv	е	Dead		Snow	Wind
Plies:	1		Design Metho	od: L	SD		1	Vertical		4	3	21		0	0
Moisture Condi	tion: Dry 360		Building Code		BCC 2015 BC 2012(202	0 Update)	2	Vertical		4	5	20		0	0
Deflection TL:	240		Load Sharing	•											
Importance: General Load	Normal - II		Deck: Vibration:		ot Checked ot Checked										
Floor Live:	40 PSF						Bear	ings an	d Fac	ctored I	Rea	ctions			
Dead:	15 PSF						Bea	ring Ler	ngth	Dir. (Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
							1 - Har	2.00 nger	00"	Vert	6%	27 / 64	91	L	1.25D+1.5L
Analysis Res	u l ts						1	SPF 2.37	75"	Vert	5%	24 / 68	92	L	1.25D+1.5L
Analysis	Actual	Location	Allowed Ca	apacity	Comb.	Case									
Moment	22 ft-lb	8 1/8"	5305 ft-lb 0.0	004 (0%)	1.25D+1.5L	L									





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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-4-10	1-7-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 0-11-12		Тор	8 PLF	0 PLF	0 PLF	0 PLF	

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- Handling & Installation

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Kott Inc.

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



TRUE COPY isD PERMIT PLANS NOV 93 2023

Client: **GREENPARK**

Project: ZADORINAL STATES OSHAWA,ON Address:

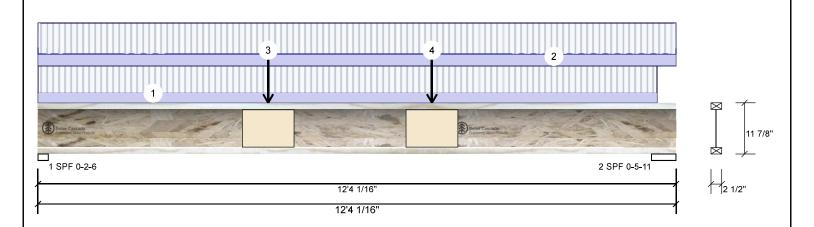
Project #

Date: 7/14/2023 W C Input by:

Name: ROSE 12-3 STD

- PASSED

Level: Ground Floor



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: Design Method: LSD Vertical 393 147 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 400 149 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 46% 184 / 590 774 L 1.25D+1.5L 2 - SPF 5.699" Vert 41% 187 / 599 786 I 1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2352 ft-lb	6' 3/8"	5305 ft-lb	0.443 (44%)	1.25D+1.5L	L
Unbraced	2352 ft-lb	6' 3/8"	5305 ft-lb	0.443 (44%)	1.25D+1.5L	L
Shear	758 l b	11'11 1/8"	2350 lb	0.323 (32%)	1.25D+1.5L	L
Perm Defl in	0.042 (L/3343)	6' 3/8"	0.393 (L/360)	0.108 (11%)	D	Uniform
LL Defl inch	0.113 (L/1248)	6' 3/8"	0.393 (L/360)	0.289 (29%)	L	L
TL Defl inch	0.156 (L/909)	6' 3/8"	0.590 (L/240)	0.264 (26%)	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 4'8 5/8" 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 11-11-11	0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-4-1	0-9-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	4-5-7		Near Face	16 l b	44 lb	0 lb	0 lb	F1
4	Point	7-7-7		Near Face	16 l b	44 lb	0 lb	0 l b	F1

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

Manufacturer Info

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

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

Kott Inc.

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





TRUE COPY IT PLANS Address:

Client: **GREENPARK** Project:

ZADORRA/ESFATES OSHAWA, ON

Input by: Project #:

7/14/2023 WС

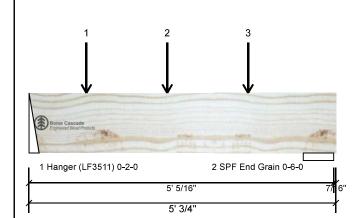
Name: ROSE 12-3 STD

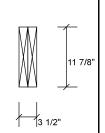
00 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	463	202	0	0
2	Vertical	408	184	0	0

Analysis Results

Dead:

15 PSF

Member Information

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	1292 ft-lb	2'3 3/8"	35392 ft-lb	0.036 (4%)	1.25D+1.5L	L_
Unbraced	1292 ft-lb	2'3 3/8"	35392 ft-lb	0.036 (4%)	1.25D+1.5L	L_
Shear	945 lb	1'1 7/8"	13217 lb	0.071 (7%)	1.25D+1.5L	L_
Perm Defl in.	0.001 (L/53080)	2'4 13/16"	0.156 (L/360)	0.007 (1%)	D	Uniform
LL Defl inch	0.002 (L/22725)	2'4 3/4"	0.156 (L/360)	0.016 (2%)	L	LL
TL Defl inch	0.004 (L/15912)	2'4 3/4"	0.233 (L/240)	0.015 (2%)	D+L	LL
LL Cant	-0.000 (2L/15438)	Rt Cant	0.200 (2L/360)	0.000 (0%)	L	LL
TL Cant	-0.000 (2L/10803)	Rt Cant	0.300 (2L/240)	0.000 (0%)	D+L	LL

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	12%	253 / 695	947	L_	1.25D+1.5L
2 - SPF End Grain	6.000"	Vert	4%	230 / 612	841	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 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top must be continuously laterally braced.
- 7 Bottom must have sheathing attached or be continuously braced.
- 8 Lateral slenderness ratio based on full section width.

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

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

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

Manufacturer Info

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





TRUE COPY is permit plans 100 83 2023 Address:

Client: **GREENPARK** Project:

ZADORI<mark>RA ES FATES</mark> OSHAWA,ON

7/14/2023 Input by: $W\, C$

Name: ROSE 12-3 STD

00 SP

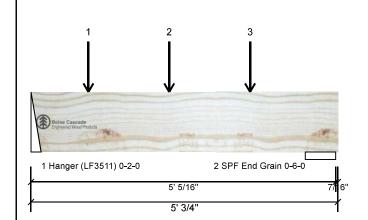
1.750" X 11.875"

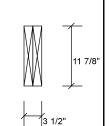
2-Ply - PASSED

Date:

Project #:

Level: Ground Floor





I D	Load Type	Location Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-11-6	Far Face	104 lb	279 lb	0 l b	0 lb	J3
2	Point	2-3-6	Far Face	115 l b	306 lb	0 l b	0 lb	J3
3	Point	3-7-6	Far Face	107 l b	286 lb	0 l b	0 l b	J3
	Self Weight			12 PLF				



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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

www.bc.com CCMC: 12472

Manufacturer Info

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

Kott Inc.

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





TRUE COPY IT PLANS Address:

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Client: **GREENPARK** Project:

ZADORRA/ESFATES OSHAWA, ON

Input by: Project #: 7/14/2023 WС

Name: ROSE 12-3 STD

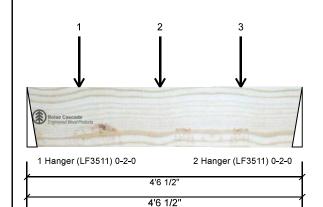
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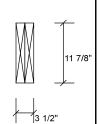
1.750" X 11.875"

2-Ply - PASSED

Date:

Level: Ground Floor





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	286	135	0	0
2	Vertical	274	131	0	0

Analysis Results

Member Information

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	755 ft-lb	2'2 5/16"	35392 ft-lb	0.021 (2%)	1.25D+1.5L	L
Unbraced	755 ft-lb	2'2 5/16"	35392 ft-lb	0.021 (2%)	1.25D+1.5L	L
Shear	596 lb	1'1 7/8"	13217 l b	0.045 (5%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/92395)	2'2 7/8"	0.144 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch	0.001 (L/42380)	2'2 3/4"	0.144 (L/360)	0.008 (1%)	L	L
TL Defl inch	0.002 (L/29054)	2'2 3/4"	0.217 (L/240)	0.008 (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	8%	169 / 430	599	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	8%	163 / 410	574	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 must be continuously laterally braced.
- 8 Bottom must have sheathing attached or be continuously braced.
- 9 Lateral slenderness ratio based on full section width.



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Notes

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info

www.bc.com CCMC: 12472

Kott Inc.

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





Page 17 of 41



Client: **GREENPARK** Project:

ZADORINA STATES OSHAWA,ON

Input by: Project #:

7/14/2023

 $W\, C$

Name: ROSE 12-3 STD

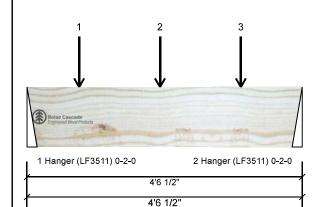
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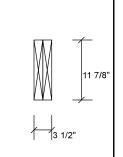
1.750" X 11.875"

2-Ply - PASSED

Date:

Level: Ground Floor





ID	Load Type	Location Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-10-5	Far Face	66 lb	175 l b	0 lb	0 l b	J2
2	Point	2-2-5	Far Face	75 l b	199 l b	0 lb	0 lb	J2
3	Point	3-6-5	Far Face	71 l b	186 l b	0 lb	0 lb	J2
	Self Weight			12 PLF				



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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

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

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

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

Kott Inc.

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







Client: **GREENPARK**

> ZADORRAN OSHAWA, ON

Input by: Project #:

Date:

7/14/2023 WC

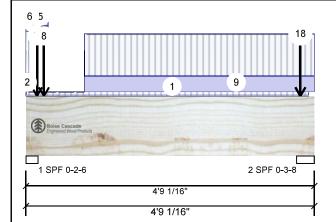
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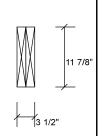
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1.750" X 11.875"

2-Plv - PASSED

Level: Ground Floor





Member	Information
Type:	Girder

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	1823	1187	183	0
2	Vertical	1755	1220	371	0

Analysis Results

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	1766 ft-lb	2'4 3/16"	35392 ft-lb	0.050 (5%)	1.25D+1.5L	L
Unbraced	1766 ft-lb	2'4 3/16"	35392 ft-lb	0.050 (5%)	1.25D+1.5L	L
Shear	2590 lb	1'2 1/4"	13217 l b	0.196 (20%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/39880)	2'4"	0.146 (L/360)	0.009 (1%)	D	Uniform
LL Defl inch	0.003 (L/16537)	2'4 1/16"	0.146 (L/360)	0.022 (2%)	L+0.5S	L
TL Defl inch	0.005 (L/11690)	2'4"	0.220 (L/240)	0.021 (2%)	D+L+0.5S	L

Bearings and Factored Reactions

Dearings	, una ra	ctorca	itcac	tions.			
Bearing	Length	Dir.	Сар.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	86%	1484 / 2918	4402	L	1.25D+1.5L +S
2 - SPF	3.500"	Vert	60%	1525 / 3004	4529	L	1.25D+1.5L +S

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 2.375.
- 2 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 3.5.
- 3 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be continuously laterally braced.
- 8 Bottom must have sheathing attached or be continuously braced.
- 9 Lateral slenderness ratio based on full section width.



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Notes

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

Handling & Installation

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

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

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





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Client: **GREENPARK** Project:

ZADORINA STATES OSHAWA,ON

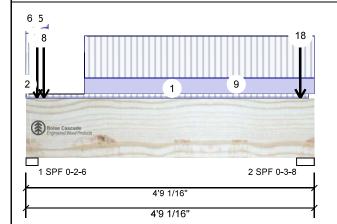
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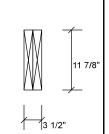
Date:

7/14/2023 $W\, C$

Name: ROSE 12-3 STD

1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 4-7-15	0-7-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 0-0-9		Тор	157 PLF	338 PLF	0 PLF	0 PLF	J4
3	Part. Uniform	0-0-0 to 0-4-6		Тор	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
5	Part. Uniform	0-0-0 to 0-4-6		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
6	Part. Uniform	0-0-0 to 0-4-6		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Point	0-2-3		Тор	679 l b	766 lb	183 l b	0 lb	В9
	Bearing Length	0-5-8							
8	Point	0-3-9		Near Face	226 lb	501 l b	0 l b	0 lb	J4
9	Part. Uniform	0-11-9 to 4-9-1		Near Face	130 PLF	346 PLF	0 PLF	0 PLF	
10	Point	4-6-5		Тор	23 lb	50 lb	0 l b	0 lb	J4
	Bearing Length	0-5-8							
11	Point	4-6-5		Тор	19 l b	0 l b	0 l b	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
12	Point	4-6-5		Тор	721 l b	697 l b	371 l b	0 lb	B9
	Bearing Length	0-5-8							
13	Point	4-6-5		Тор	26 lb	57 l b	0 l b	0 lb	J4
	Bearing Length	0-5-8							
16	Point	4-6-5		Тор	18 b	0 l b	0 l b	0 l b	Wall Self Weight
	Bearing Length	0-5-8							
17	Point	4-6-5		Тор	29 lb	62 lb	0 l b	0 lb	J4
	Bearing Length	0-5-8							
18	Point	4-6-5		Тор	19 l b	0 lb	0 l b	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
	Self Weight				12 PLF				OROFESSION

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JULY 14, 2023

Notes

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

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

Manufacturer Info

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www.bc.com CCMC: 12472

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Client: **GREENPARK**

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Input by: Project #:

Date:

7/14/2023 W C

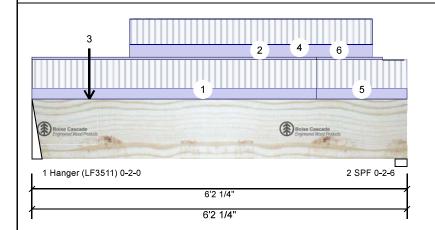
Name: ROSE 12-3 STD

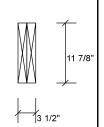
3100 SP

1.750" X 11.875"

2-Plv - PASSED

Level: Ground Floor





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

Unfactored Reactions UNPATTERNED lb (Uplift)											
Brg	Direction	Live	Dead	Snow	Wind						
1	Vertical	239	150	0	0						
2	Vertical	234	146	0	0						

Analysis Results Actual Case Location Allowed Analysis Capacity Comb. 820 ft-lb Moment 3' 15/16" 35392 ft-lb 0.023 (2%) 1.25D+1.5L L Unbraced 820 ft-lb 3' 15/16" 35392 ft-lb 0.023 (2%) 1.25D+1.5L L 1.25D+1.5L L 484 lb 1'1 7/8" 13217 lb 0.037 (4%) Shear Perm Defl in. 0.001 3' 7/8" 0.198 (L/360) 0.007 (1%) D Uniform (L/49332) 0.002 3' 7/8" 0.198 (L/360) 0.012 (1%) L LL Defl inch (L/30633)

Bearings and Factored Reactions Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 2.000" Vert 7% 187 / 358 545 L 1.25D+1.5L Hanger 2 - SPF 2.375" Vert 10% 183 / 351 534 L 1.25D+1.5L

Design Notes

TL Defl inch 0.004

Dead:

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.

3' 7/8" 0.297 (L/240) 0.013 (1%) D+L

- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"

(L/18898)

- 4 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top loads must be supported equally by all plies.

15 PSF

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



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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

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





TRUE COPY is permit plans 100 83 2023 Address: F5-A 3100 SP

Client: **GREENPARK** Project:

ZADORINA STATES OSHAWA,ON

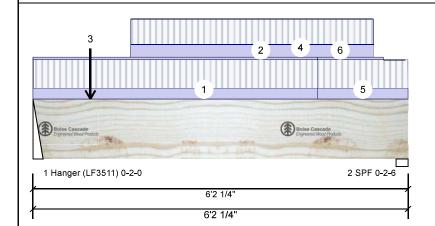
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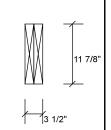
Date:

7/14/2023 $W\, C$

Name: ROSE 12-3 STD

1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor





I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 4-8-5	1-1-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 4-8-5		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
3	Point	0-11-6		Far Face	23 lb	48 l b	0 lb	0 lb	J1
4	Part. Uniform	1-7-6 to 5-7-6		Far Face	19 PLF	39 PLF	0 PLF	0 PLF	
5	Tie-In	4-8-5 to 6-2-4	1-1-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Part. Uniform	4-8-5 to 5-9-5		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				12 PLF				



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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







Client: **GREENPARK**

Project: ZADORRA SFATE Address: OSHAWA, ON

Input by: Project #: 7/14/2023 W C

Name: ROSE 12-3 STD

3100 SP

1.750" X 11.875"

2-Ply - PASSED

Brg

1

2

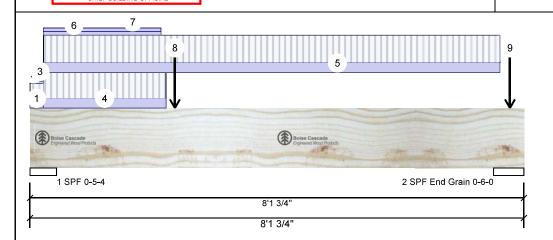
Direction

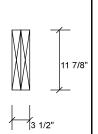
Vertical

Vertica

Date:

Level: Ground Floor





Wind

0

0

Member Information

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

15 PSF

Application: Floor (Residential) Design Method: LSD

Building Code: NBCC 2015 OBC 2012(2020 Update)

Load Sharing:

Deck: Not Checked Not Checked

Vibration:

Bearings and Factored Reactions

Unfactored Reactions UNPATTERNED Ib (Uplift)

Live

304

802

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	6%	271 / 456	727	L	1.25D+1.5L
2 - SPF End Grain	6.000"	Vert	8%	613 / 1203	1815	L	1.25D+1.5L

I.MATIJEVIC 100528832

JULY 14, 2023

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USED IN THE DESIGN OF THIS COMPONENT.

AS IT CONTAINS SPECIFICATIONS AND CRITERIA

Dead

217

490

Snow

0

n

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1184 ft-lb	2'4 11/16"	35392 ft-lb	0.033 (3%)	1.25D+1.5L	L
Unbraced	1184 ft-lb	2'4 11/16"	35392 ft-lb	0.033 (3%)	1.25D+1.5L	L
Shear	597 lb	1'5 1/8"	13217 l b	0.045 (5%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/28699)	3'9 1/2"	0.244 (L/360)	0.013 (1%)	D	Uniform
LL Defl inch	0.004 (L/20616)	3'9"	0.244 (L/360)	0.017 (2%)	L	L
TL Defl inch	0.007 (L/11998)	3'9 1/4"	0.367 (L/240)	0.020 (2%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at a maximum of 5'6 1/16" o.c.
- 7 Lateral slenderness ratio based on full section width.

/ Lateral siende	rness ratio based on	full section wiath.							
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-2-10	0-4-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 0-2-10		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 0-2-10		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
4	Tie-In	0-2-10 to 2-2-15	0-6-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

Continued on page 2...

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

Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

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







Client: **GREENPARK** Project:

ZADORINA STATES OSHAWA,ON

Project #:

Date: Input by: $W\, C$

7/14/2023

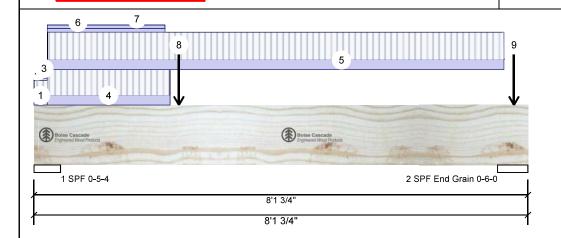
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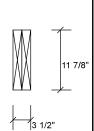
3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





Continued	from	page	1
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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Tie-In	0-2-10 to 7-9-0	0-6-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Part. Uniform	0-2-10 to 2-1-15		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
7	Part. Uniform	0-2-10 to 2-1-15		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
8	Point	2-4-11		Far Face	150 lb	239 lb	0 lb	0 l b	F5
9	Point	7-11-0		Тор	365 lb	645 l b	0 lb	0 l b	C3
	Bearing Length	0-3-8							
	Self Weight				12 PLF				



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Kott Inc.

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







Client: **GREENPARK**

Project: ZADORRAZESTATES Address: OSHAWA,ON

Input by: Project #:

7/14/2023 WC

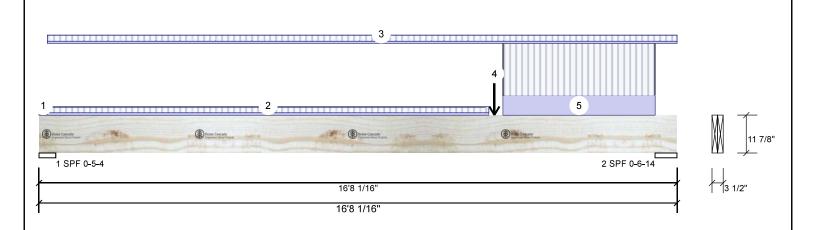
Name: ROSE 12-3 STD

3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor



Member Inform	Unfactored Reactions UNPATTERNED lb (Uplift)								
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	561	316	0	0
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical	1248	590	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 Re	actions		
Dead:	15 PSF			Bea	ring Length	Dir. Ca	p. React D/L l b	Total Ld. Case	Ld. Comb.
				1 - 9	SPF 5.250"	Vert 11	% 395 / 841	1236 L	1.25D+1.5L
				2-9	SPF 6.875"	Vert 18	% 738 / 1872	2610 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7272 ft-lb	11'10 13/16"	35392 ft-lb	0.205 (21%)	1.25D+1.5L	L
Unbraced	7272 ft-lb	11'10 13/16"	35392 ft-lb	0.205 (21%)	1.25D+1.5L	L
Shear	2175 l b	15'1 5/16"	13217 l b	0.165 (16%)	1.25D+1.5L	L
Perm Defl in.	0.072 (L/2643)	8'8 1/2"	0.526 (L/360)	0.136 (14%)	D	Uniform
LL Defl inch	0.140 (L/1354)	8'9 15/16"	0.526 (L/360)	0.266 (27%)	L	L
TL Defl inch	0.212 (L/895)	8'9 1/2"	0.789 (L/240)	0.268 (27%)	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.
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- 3 Multiple plies must be fastened together as per manufacturer's details.
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- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at a maximum of 11'10 13/16" o.c.
- 7 Lateral slenderness ratio based on full section width.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-2-10	0-6-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-2-10 to 11-9-1	0-6-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-2-10 to 16-8-1	0-6-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	11-10-13		Far Face	202 lb	463 lb	0 l b	0 l b	F4
5	Part. Uniform	12-1-8 to 16-1-3		Тор	70 PLF	185 PLF	0 PLF	0 PLF	
	Self Weight				12 PLF				

Notes

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Handling & Installation

Handling & Installation

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