

Engineering Notes: 5WP-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.



1

MHP 23032

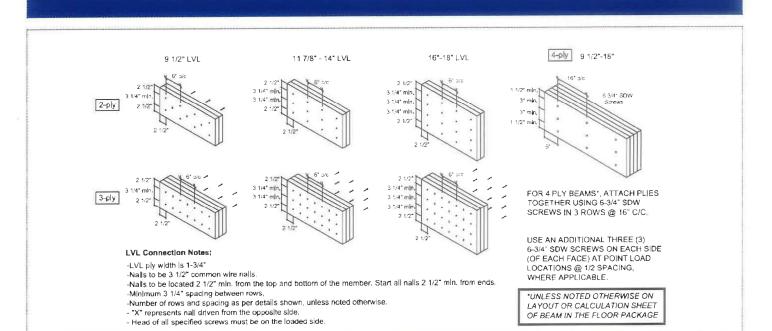
ENG-IM0723-102-KTF-GREENPARK-ZADORRA ESTATES-ROSE 12-1

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

Page 2 of 56



MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS



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



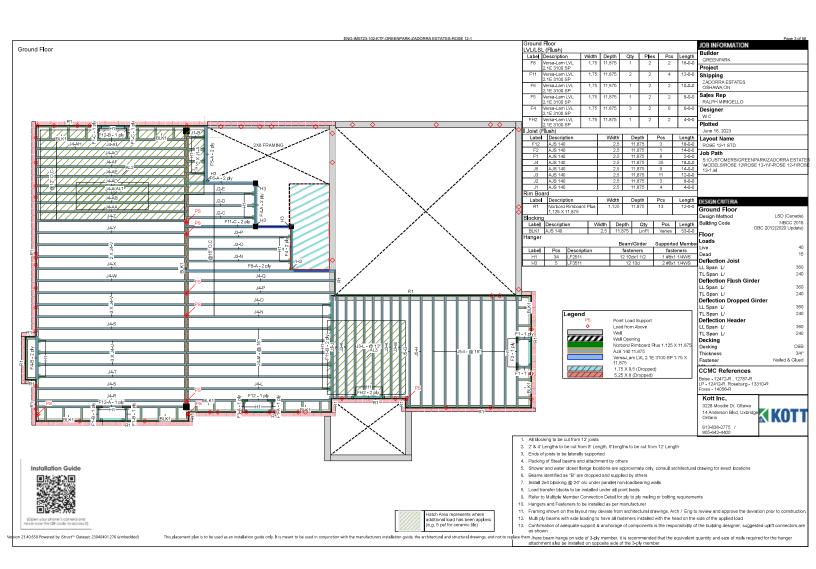


(Open your phone's camera and over over this QR code to access it)

Last Revised January 13, 2023



MHP 23032



TRUE COPY ISD NOT PERMIT PLANS Address:

Client: **GREENPARK** Project:

ZADORINA STATES

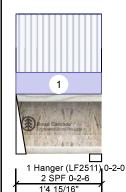
Project #:

Date: 7/13/2023 WC Input by:

Name: ROSE 12-1 STD

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

Level: Ground Floor



11 7/8"

Member	Information
Type:	Girder

1'4 15/16'

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

Ge Floor Live: 40 PSF 15 PSF Dead:

n 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. Reac	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

Ana l ysis	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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13	VINCE OF ON'S	
	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.

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Tio In	0 0 0 to 1 4 1E	170	Ton	15 DCE	40 DCE	V DCE	A DCE	

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

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

Handling & Installation

- Handling & Installation

 1. Julist flanges must not be cut or drilled

 2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-qly 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.

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





TRUE COPY Project: isDesign 2023 Address:

Client: **GREENPARK**

> ZADORINA STATES OSHAWA, ON

7/13/2023 Date: W C Input by:

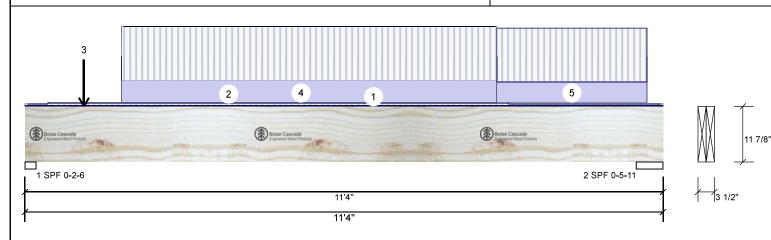
Project #:

Name: ROSE 12-1 STD

1.750" X 11.875" 3100 SP

2-Plv - PASSED

Level: Ground Floor



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 2 Design Method: LSD 1703 802 Vertical 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertica 1829 821 n 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** 40 PSF Floor Live: 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.375" Vert 1002 / 2555 3557 L 1.25D+1.5L 1.25D+1.5L 2 - SPF 5.699" Vert 31% 1026 / 2743 3769 I

Analysis Results

Analysis	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.

ID	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 l b	0 lb	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				

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



This design is valid until 4/17/2026

Kott Inc.

TRUE COPY isD PERMIT PLANS NOV 93 2023

Client: **GREENPARK**

Project: ZADORRAESFATES Address:

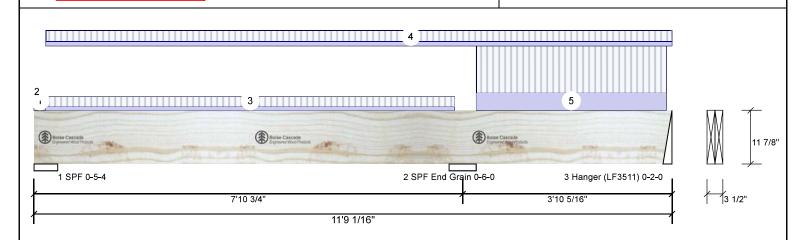
7/13/2023 Input by: WC

Name: ROSE 12-1 STD

1.750" X 11.875" 3100 SP

2-Plv - PASSED

Level: Ground Floor



	Member Inform	nation		
I	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		
ı				

Unfactored	Reactions	UNPATTERNED I b	(Uplift)
Ulliactorca	I/Cactions	OINI AT LEWILD IN	(Opinio)

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

ı	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
ı	Neg Moment	-616 ft-lb	7'10 3/4"	35392 ft-lb	0.017 (2%)	1.25D+1.5L	LL
l	Unbraced	-616 ft-lb	7'10 3/4"	32757 ft-lb	0.019 (2%)	1.25D+1.5L	LL
l	Pos Moment	475 ft-lb	3'5 7/16"	33622 ft-lb	0.014 (1%)	1.25D+1.5L	L_
l	Unbraced	475 ft-lb	3'5 7/16"	33622 ft-lb	0.014 (1%)	1.25D+1.5L	L_
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

l	Bearing	Length	Dir.	Cap.	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	(-20)	_L	1.25D+1.5L (0.9D+1.5L)
Γ				N.				

I.MATIJEVIC 100528832

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

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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





Page 4 of 41

TRUE COPY Project: isDesign 2023 Address: F11-¢ 3100 SP

Client: **GREENPARK**

ZADORINA STATES OSHAWA,ON

1.750" X 11.875"

Input by: Project #:

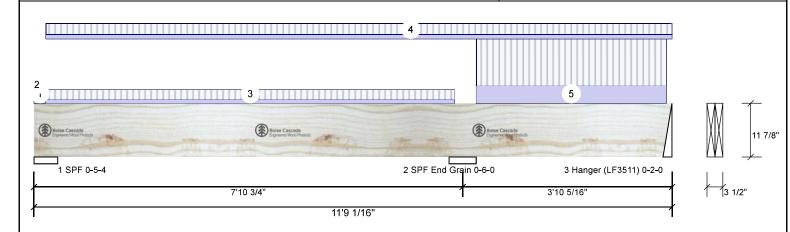
7/13/2023 WC

Name: ROSE 12-1 STD

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

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

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Manufacturer Info

(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: **GREENPARK** Project:

ZADORINA STATES OSHAWA,ON

Date: 7/13/2023 Input by: WC

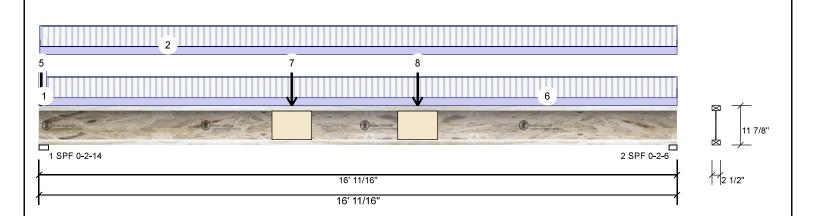
Name: ROSE 12-1 STD

Project #:

875" - PASSED

Address:

Level: Ground Floor



Member Inform	nation			Unf	actored Rea	actions L	JNP	ATTERNED I	b (Upli	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Liv	/e	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	5	16	209		0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	4	51	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			Bea	rings and Fa	actored	Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	. React D/L I b	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.875"	Vert	58%	262 / 774	1036	L	1.25D+1.5L
Analysis Besylts				2 -	SPF 2.388"	Vert	53%	211 / 676	887	L	1.25D+1.5L

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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+ Dottom nang	ge must be laterally bi	aced at a maximum	01000710 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 lb	0 l b	J4
	Bearing Length	0-1-8							
4	Point	0-0-12		Тор	12 l b	30 lb	0 lb	0 l b	J6
	Bearing Length	0-1-8							
5	Point	0-0-12		Тор	14 l b	0 l b	0 lb	0 l b	Wall Self Weight
Continued on pag	ge 2								

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

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the 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

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Page 6 of 41

TRUE COPY isDesign 2023

Client: **GREENPARK** Project:

ZADORINA STATES OSHAWA,ON Address:

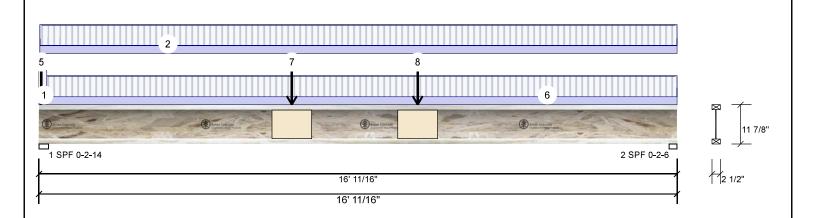
Date: 7/13/2023 Input by: WC

Name: ROSE 12-1 STD

Project #:

875" - PASSED

Level: Ground Floor



Continued fron	n page 1								
I D	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 lb	35 lb	0 lb	0 lb	F1
8	Point	9-6-6		Near Face	13 l b	35 lb	0 l b	0 lb	F1



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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. Julist flanges must not be cut or drilled

 2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-qly 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 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





TRUE COPY isDesign 2023

Client: **GREENPARK**

Project:

Address:

ZADORINA STATES OSHAWA,ON

Input by: Project #

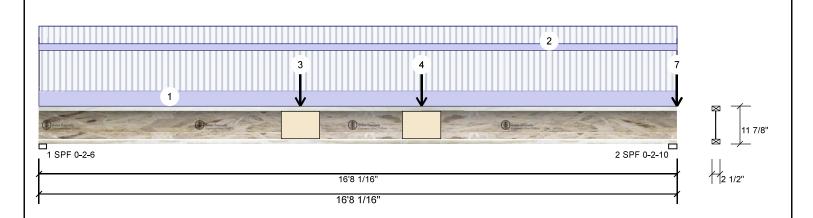
Date:

7/13/2023 WC

Name: ROSE 12-1 STD

.875" - PASSED

Level: Ground Floor



mation			Unfa	actored Rea	ections	UNP	ATTERNED i i	o (Uplift)	
Girder	Application:	Floor (Residential)	Brg	Direction	L	_ive	Dead	Snow	Wind
1	Design Method:	LSD	1	Vertical		420	158	0	0
n: Dry	Building Code:	NBCC 2015	2	Vertical		481	197	0	0
360		` ' '							
240	Load Sharing:	No							
Normal - II	Deck:	Not Checked							
	Vibration:	Not Checked							
40 PSF			Bear	ings and Fa	actored	d Read	ctions		
15 PSF			Bea	aring Length	Dir.	Cap.	React D/L Ib	Total Ld. Case	Ld. Comb.
			1 - 3	SPF 2.375"	Vert	49%	198 / 630	828 L	1.25D+1.5L
4			2 - :	SPF 2.625"	Vert	56%	246 / 722	968 L	1.25D+1.5L
	Girder 1 1: Dry 360 240 Normal - II 40 PSF 15 PSF	Girder Application: Design Method: Building Code: 360 240 Normal - II Deck: Vibration:	Girder Application: Floor (Residential) 1 Design Method: LSD 1 Dry Building Code: NBCC 2015 OBC 2012(2020 Update) Load Sharing: No Deck: Not Checked Vibration: Not Checked	Application: Floor (Residential) Brg	Application: Floor (Residential) Brg Direction	Application: Floor (Residential) Brg Direction 1	Application: Floor (Residential) Brg Direction Live	Application: Floor (Residential) Brg Direction Live Dead	Application: Floor (Residential) Brg Direction Live Dead Snow

Analysis Results

Analysis	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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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 l b	0 lb	0 l b	F1
4	Point	9-11-15		Near Face	17 l b	44 l b	0 lb	0 l b	F1
5	Point	16-8-1		Тор	12 l b	29 l b	0 lb	0 l b	J4
	Bearing Length	0-1-8							
6	Point	16-8-1		Тор	12 l b	30 l b	0 lb	0 l b	J6
Continued on no	ao 2								

Continued on page 2...

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Handling & Installation

- Handling & Installation

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 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

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 Web stiffeners for point load as shown Minimum point load bearing length>= 3,5 inches
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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

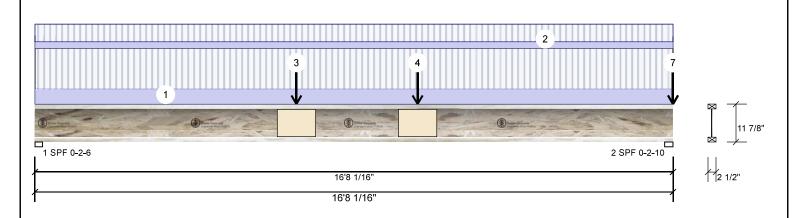
Date: 7/13/2023 Input by: WC

Project #:

Name: ROSE 12-1 STD

875" - PASSED

Level: Ground Floor



..Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	Bearing Length	0-1-8							
7	Point	16-8-1		Тор	14 lb	0 l b	0 l b	0 lb	Wall Self Weight
	Bearing Length	0-1-8							



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Kott Inc.

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



This design is valid until 4/17/2026 CSD DESIGN



Project:

Address:

ZADORINA STATES OSHAWA, ON

Project #

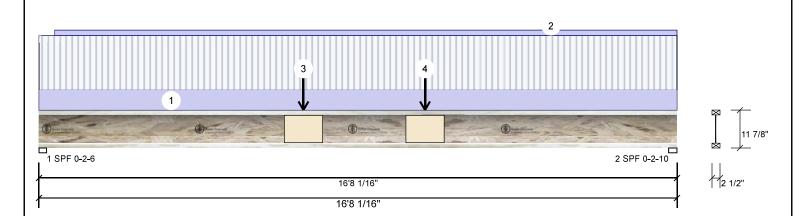
7/13/2023 Input by: WC

Date:

Name: ROSE 12-1 STD

875" - PASSED

Level: Ground Floor



Member Inform	nation			Unfa	actored Rea	actions UN	PATTERNED I	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	208	99	0	0
Moisture Condition:	: Dry	Building Code:	NBCC 2015	2	Vertical	211	101	0	0
Deflection LL:	360		OBC 2012(2020 Update)						
Deflection TL:	240	Load Sharing:	No						
Importance:	Normal - II	Deck:	Not Checked						
General Load		Vibration:	Not Checked						
Floor Live:	40 PSF			Bear	ings and Fa	actored Rea	actions		
Dead:	15 PSF			Bea	aring Length	Dir. Cap	React D/L lb	Total Ld. Case	Ld. Comb.
				1 - 3	SPF 2.375"	Vert 269	6 123 / 313	436 L	1.25D+1.5L
				2 - 1	SPF 2.625"	Vert 25	6 126 / 316	442 L	1.25D+1.5L

Analysis Results

Ana l ysis	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 l b	43 lb	0 l b	0 l b	F1
4	Point	10-1-0		Far Face	21 l b	43 lb	0 lb	0 l b	F1

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Dry service conditions, unless noted otherwise
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Handling & Installation

- Handling & Installation

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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

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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 Address:

Client: **GREENPARK** Project:

ZADOR**RY SFATE** OSHAWA,ON

Project #:

7/13/2023 Date: W C Input by:

Name: ROSE 12-1 STD

B75" - PASSED

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Vibration:

Floor (Residential)

OBC 2012(2020 Update)

NBCC 2015

Not Checked

Not Checked

LSD

Level: Ground Floor



1'1 7/8' 1'1 7/8'

2 Han

11 7/8"

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Member Information

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

Floor Live: 40 PSF Dead: 15 PSF

Unfactored Reactions UNPATTERNED lb (Uplift)

Bearings and Factored Reactions

Dir.

Vert

Vert

Bearing Length

2.000"

1 - SPF 2.442"

2 -

Hanger

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

Cap. React D/L lb

18 / 56

17 / 53

4%

4%

Total Ld. Case

74 L

70 L

Analysis Results

Ana l ysis	Actual	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

I.MATIJEVIC 100528832 NCE OF JULY 14, 2023

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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 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.

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Tio In	0 0 0 to 1 1 14	170	Ton	15 DCE	40 DCE	0 DSE	A DCE	

П

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Kott Inc.

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





TRUE COPY isD PERMIT PLANS Address:

Client: **GREENPARK** Project:

ZADORRA/ESTATES OSHAWA, ON

Input by: Project #

Date:

7/13/2023 W C

Name: ROSE 12-1 STD

875" - PASSED

Level: Ground Floor



11 7/8"

2	Har	ger (LF2511) 0-2-0	
	1	1'5 1/16"	
		,	
	1	1'5 1/16"	

Member Information

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

General Load Floor Live: 40 PSF

15 PSF Dead:

Actual

22 ft-lb

22 ft-lb

74 lb

Analysis Results

Analysis

Moment

Shear

Unbraced

Unfactored Reactions UNPATTERNED lb (Uplift)

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

Location Allowed Capacity Comb. Case 0.004 (0%) 8 11/16" 5305 ft-lb 1.25D+1.5L L 8 11/16" 5305 ft-lb 0.004 (0%) 1.25D+1.5L L 0.031 (3%) 1.25D+1.5L L 1 5/8" 2350 lb 8 3/4" 0.039 (L/360) 0.002 (0%) D Uniform

8 3/4" 0.039 (L/360) 0.004 (0%) L

8 3/4" 0.059 (L/240) 0.004 (0%) D+L

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Vibration:

Floor (Residential)

OBC 2012(2020 Update)

NBCC 2015

Not Checked

Not Checked

LSD

Perm Defl in 0.000 (L/222704) 0.000 LL Defl inch

(L/83514) TL Defl inch 0.000

(L/60737)

Bearings and Factored Reactions

bearing.	J ana i c	ictore	u itcac	LIOIIS			
Bearing	Length	Dir.	Cap. I	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	5%	22 / 69	91	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	5%	21 / 66	87	L	1.25D+1.5L

Design Notes

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18	VINCE OF ONTO	
	JULY 14, 2023	

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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 DCE	O DCE	0 DCE	

Notes

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TRUE COPY isD PERMIT PLANS

Client: **GREENPARK**

Project: ZADORRA/ESTATES Address:

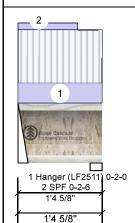
7/13/2023 Date: W C Input by:

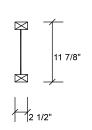
Name: ROSE 12-1 STD

Project #

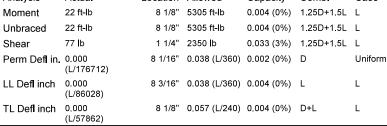
875" - PASSED

Level: Ground Floor





Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Type: Brg Direction Live Dead Snow Wind Plies: 1 Design Method: LSD Vertical 43 21 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 45 20 n 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. 2.000" Vert 6% 27 / 64 91 L 1.25D+1.5L Hanger Analysis Results 2 - SPF 2.375" Vert 5% 24 / 68 92 L 1.25D+1.5L Case Location Allowed Analysis Actual Capacity Comb.





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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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ZADORINA STATES OSHAWA,ON

Input by: Project #

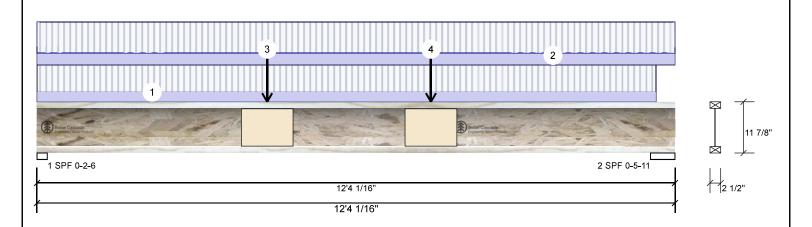
Date:

7/13/2023 WC

Name: ROSE 12-1 STD

B75" - PASSED

Level: Ground Floor



Member Inform	mber Information					Unfactored Reactions UNPATTERNED lb (Uplift)						
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead	Snow	Wind		
Plies:	1	Design Method:	LSD	1	Vertical		393	147	0	0		
Moisture Condition:	: Dry	Building Code:	NBCC 2015	2	Vertical		400	149	0	0		
Deflection LL:	360		OBC 2012(2020 Update)									
Deflection TL:	240	Load Sharing:	No									
Importance:	Normal - II	Deck:	Not Checked									
General Load		Vibration:	Not Checked									
Floor Live:	40 PSF			Bea	rings and Fa	actored	Read	ctions				
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	Total Ld. Ca	se 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 L	1.25D+1.5L		

Analysis Results

Ana l ysis	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.



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 11-11-11	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 l b	0 l b	F1
4	Point	7-7-7		Near Face	16 l b	44 lb	0 lb	0 l b	F1

Notes

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

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

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

 3. Damaged Jioists must not be used

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

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



Project: ZADORRA SFATES Address: OSHAWA, ON

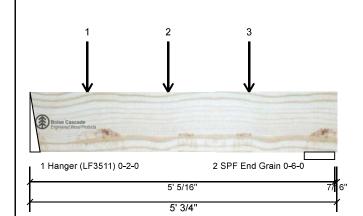
7/13/2023 Input by: WС

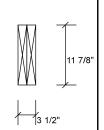
Name: ROSE 12-1 STD

1.750" X 11.875" 00 SP

Project #: 2-Ply - PASSED

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	463	202	0	0
2	Vertical	408	184	0	0
i					

Analysis Results

Member Information

Analysis	Actual	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 l b	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. I	React D/L I b	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

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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

www.bc.com CCMC: 12472

Manufacturer Info

Kott Inc.

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







Client: **GREENPARK** Project:

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

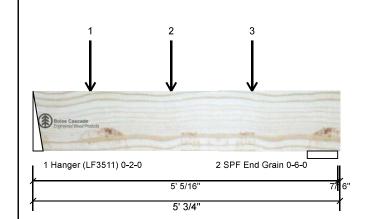
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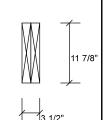
Name: ROSE 12-1 STD

1.750" X 11.875" **00 SP**

Project #: 2-Ply - PASSED

Level: Ground Floor





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



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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

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

Manufacturer Info Boise Cascade Wood Products

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

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

Kott Inc.





TRUE COPY IT PLANS F4-A

Client: **GREENPARK** Project:

ZADORRA/ESFATES Address: OSHAWA, ON

Input by: Project #:

7/13/2023 WС

Date:

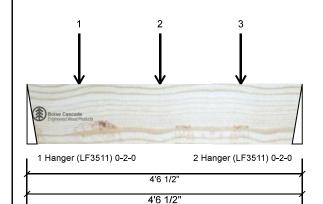
Name: ROSE 12-1 STD

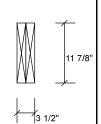
3<mark>100 SP</mark>

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





Wind

Member Inform	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								

Unfa	ctored F	Reactions	UNPAT1	TERNED I	b (Uplift)
Brg	Direction	L	_ive	Dead	Snow

1	Vertical	286	135	0	0
2	Vertical	274	131	0	0

Analysis Results

Analysis	Actual	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 (1/29054)	2'2 3/4"	0.217 (L/240)	0.008 (1%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - 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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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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

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

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





Page 17 of 41



Client: **GREENPARK** Project:

ZADORINA STATES OSHAWA, ON

Project #:

Date: 7/13/2023 Input by:

 $W\, C$

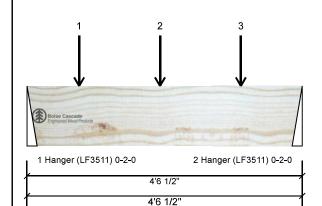
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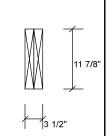
3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





I D	Load Type	Location Trib Wid	dth 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 l b	J2
3	Point	3-6-5	Far Face	71 l b	186 l b	0 lb	0 l b	J2
	Self Weight			12 PLF				



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Notes

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

Handling & Installation

Handling & Installation

1. 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





TRUE COPY Project: IT PLANS Address: F4-B

Client: **GREENPARK**

> ZADORRA/ESFATES OSHAWA, ON

Input by: Project #: 7/13/2023 W C

Name: ROSE 12-1 STD

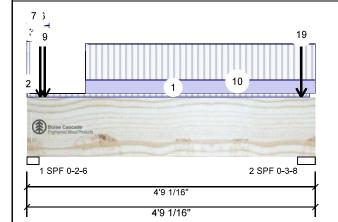
3100 SP

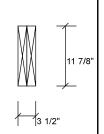
1.750" X 11.875"

2-Plv - PASSED

Date:

Level: Ground Floor





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 Dead: 15 PSF

Unfactored	Reactions	UNPATTERNED	lb	(Uplift)	

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1809	1273	396	0
2	Vertical	1770	1220	348	0

Bearings and Factored Reactions Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.375" 1591 / 3110 Vert 4701 L 1.25D+1.5L +S 2 - SPF 3.500" Vert 60% 1525 / 3003 4527 L 1 25D+1 5L +S

Analysis Results

Member Information

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	1874 ft-lb	2'3 7/16"	35392 ft-lb	0.053 (5%)	1.25D+1.5L +S	L
Unbraced	1874 ft-lb	2'3 7/16"	35392 ft-lb	0.053 (5%)	1.25D+1.5L +S	L
Shear	2637 lb	1'2 1/4"	13217 l b	0.200 (20%)	1.25D+1.5L +S	L
Perm Defl in.	0.001 (L/36002)	2'3 9/16"	0.146 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.003 (L/15670)	2'3 13/16"	0.146 (L/360)	0.023 (2%)	L+0.5S	L
TL Defl inch	0.005 (L/10918)	2'3 13/16"	0.220 (L/240)	0.022 (2%)	D+L+0.5S	L

I.MATIJEVIC 100528832 NCE OF JULY 14, 2023

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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

- 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.

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

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

Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

Kott Inc.

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







ZADORINA STATES OSHAWA,ON

Date: Input by: Project #:

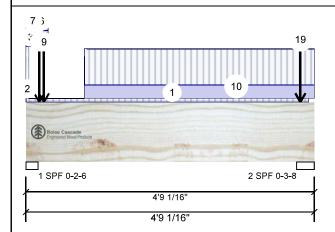
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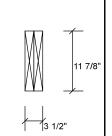
Name: ROSE 12-1 STD

1.750" X 11.875" 3<mark>100 SP</mark>

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 0-1-9		Тор	30 PLF	0 PLF	79 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 0-4-6		Тор	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Part. Uniform	0-0-0 to 0-4-6		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
7	Part. Uniform	0-0-0 to 0-4-6		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Point	0-2-10		Тор	765 l b	766 l b	365 lb	0 l b	B9 Header Column
	Bearing Length	0-5-8							
9	Point	0-3-9		Near Face	237 l b	501 l b	29 lb	0 lb	J4
10	Part. Uniform	0-11-9 to 4-9-1		Near Face	130 PLF	346 PLF	0 PLF	0 PLF	
11	Point	4-6-5		Тор	23 l b	50 l b	0 lb	0 l b	J4
	Bearing Length	0-5-8							
12	Point	4-6-5		Тор	19 l b	0 l b	0 l b	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
13	Point	4-6-5		Тор	706 l b	697 l b	340 lb	0 l b	B9
	Bearing Length	0-5-8							
14	Point	4-6-5		Тор	26 l b	57 l b	0 lb	0 lb	J4
	Bearing Length	0-5-8							
17	Point	4-6-5		Тор	18 l b	0 l b	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
18	Point	4-6-5		Тор	29 l b	62 l b	0 l b	0 l b	J4
	Bearing Length	0-5-8							
19	Point	4-6-5		Тор	19 l b	0 l b	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							OFESSION
	Self Weight				12 PLF				PROFESSIONAL CZ

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



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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

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

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

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

Kott Inc.

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





TRUE COPY Project: Address: F5-A

Client: **GREENPARK**

> ZADORINA STATES OSHAWA, ON

Input by: Project #:

Date:

7/13/2023 W C

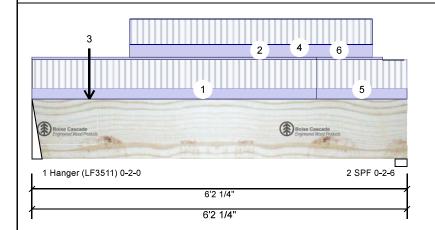
Name: ROSE 12-1 STD

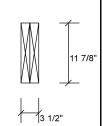
3100 SP

1.750" X 11.875"

2-Plv - PASSED

Level: Ground Floor





Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Member Information

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

General Load 40 PSF Floor Live:

15 PSF

Application: Floor (Residential) Design Method: LSD Building Code: **NBCC 2015**

OBC 2012(2020 Update) Load Sharing:

Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Bearings and Factored Reactions

Dir.

Vert

Vert

Bearing Length

2 - SPF 2.375"

Hanger

2.000"

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	239	150	0	0
2	Vertical	234	146	0	0
1					

Analysis Results

Dead:

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	820 ft-lb	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
Shear	484 lb	1'1 7/8"	13217 l b	0.037 (4%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/49332)	3' 7/8"	0.198 (L/360)	0.007 (1%)	D	Uniform
LL Defl inch	0.002 (L/30633)	3' 7/8"	0.198 (L/360)	0.012 (1%)	L	L
TL Defl inch	0.004 (L/18898)	3' 7/8"	0.297 (L/240)	0.013 (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 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.



Cap. React D/L lb

7%

10%

187 / 358

183 / 351

Total Ld. Case

545 L

534 L

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.

Notes

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

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

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

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

www.bc.com CCMC: 12472

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

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





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

Client: **GREENPARK** Project:

ZADORINA STATES OSHAWA,ON

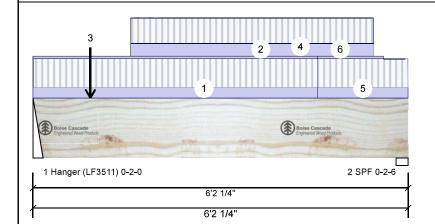
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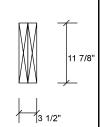
Date:

7/13/2023 $W\, C$

Name: ROSE 12-1 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 4-8-5	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 l b	48 l b	0 lb	0 l b	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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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

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

Manufacturer Info

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

www.bc.com CCMC: 12472

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







Project: ZADORRA ESFATES Address: OSHAWA, ON

Input by: Project #: 7/13/2023 W C

Name: ROSE 12-1 STD

3100 SP

1.750" X 11.875"

2-Ply - PASSED

Brg

1

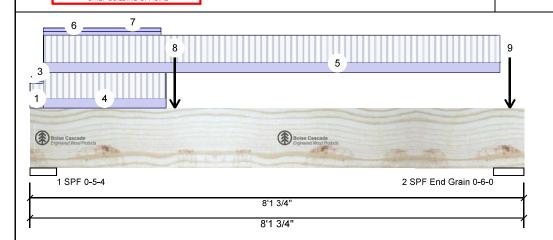
2

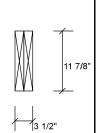
Direction

Vertical

Vertica

Level: Ground Floor





Wind

0

0

											a	

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) LSD

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

Load Sharing:

Design Method:

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

PROFESSIONA

I.MATIJEVIC 100528832

VCE OF O 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.

Dead

217

490

Snow

0

0

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.

l	7 Lateral slende	erness ratio based on								
I	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
I	1	Tie-In	0-0-0 to 0-2-10	0-4-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
I	2	Part. Uniform	0-0-0 to 0-2-10		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
I	3	Part. Uniform	0-0-0 to 0-2-10		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
ı	4	Tie-In	0-2-10 to 2-2-15	0-6-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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
- 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

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

www.bc.com CCMC: 12472

Manufacturer Info Boise Cascade Wood Products Kott Inc. 3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

ZADORINA STATES

OSHAWA,ON

Input by: Project #:

7/13/2023 $W\, C$

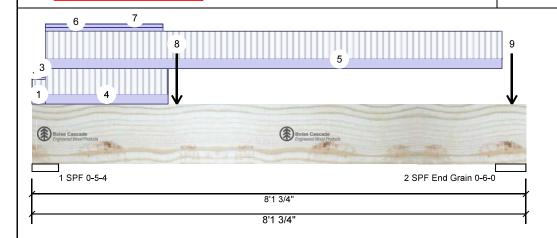
Name: ROSE 12-1 STD

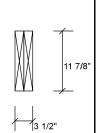
3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





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				



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

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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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3. Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

Kott Inc.

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







ZADORRA/ESFATES OSHAWA,ON

Input by: Project #:

7/13/2023 WC

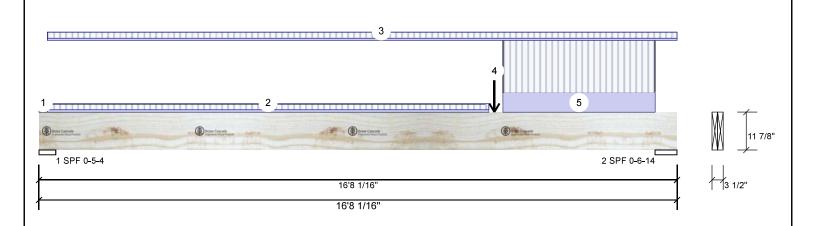
Name: ROSE 12-1 STD

3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor



Member Inforn	nation			Unfactored Reactions UNPATTERNED lb (Uplift)								
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	l	Live	Dead	Snow	Wind		
Plies:	2	Design Method:	LSD	1	Vertical		561	316	0	0		
Moisture Condition:	: Dry	Building Code:	NBCC 2015 2		Vertical	1	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	rings and Fa	actored	d Rea	ctions				
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	Total Ld. Case	Ld. Comb.		
				1 -	SPF 5.250"	Vert	11%	395 / 841	1236 L	1.25D+1.5L		
Amalousia Danula				2 -	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.
- 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 11'10 13/16" o.c.
- 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.

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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 l b	463 lb	0 lb	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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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

3228 Moodie Dr, Ottawa, Ontario

613-838-2775 / 905-642-4400

CSD DESIGN

TRUE COPY T PLANS Address:

Client: **GREENPARK** Project:

ZADORRALES

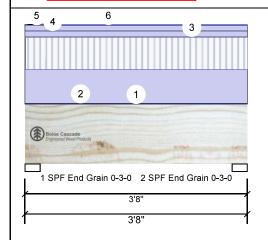
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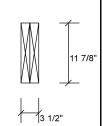
7/13/2023 W C

Name: ROSE 12-1 STD

1.750" X 11.875" 3100 SP

2-Ply - PASSED Level: Ground Floor





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

Unfactored Reactions UNPATTERNED lb (Uplift) Bra Direction Live

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	401	596	0	0
2	Vertical	400	596	0	0

Analysis Results

Member Information

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	993 ft-lb	1'10"	32207 ft-lb	0.031 (3%)	1.25D+1.5L	L
Unbraced	993 ft-lb	1'10"	32207 ft-lb	0.031 (3%)	1.25D+1.5L	L
Shear	1113 lb	2'5 1/8"	12027 lb	0.093 (9%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/41459)	1'10"	0.110 (L/360)	0.009 (1%)	D	Uniform
LL Defl inch	0.001 (L/61771)	1'10"	0.110 (L/360)	0.006 (1%)	L	L
TL Defl inch	0.002 (L/24809)	1'10"	0.165 (L/240)	0.010 (1%)	D+L	L

Bearings and Factored Reactions

•	Jean95	, ana i a	- to . c u					
	Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
	1 - SPF End Grain	3.000"	Vert	13%	745 / 601	1346	L	1.25D+1.5L
	2 - SPF End Grain	3.000"	Vert	13%	744 / 600	1344	L	1.25D+1.5L



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

- 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.

ſ	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Part. Uniform	0-0-0 to 3-8-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	2	Part. Uniform	0-0-0 to 3-8-0		Near Face	229 PLF	217 PLF	0 PLF	0 PLF	J3
	3	Part. Uniform	0-0-0 to 3-8-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	4	Part. Uniform	0-0-0 to 3-8-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
ŀ	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

- 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



