

GREENPARK

ZADORINA STATES OSHAWA,ON

Input by:

7/14/2023

Date:

Name: ROSE 12-2 STD

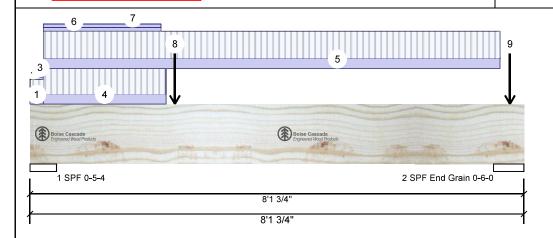
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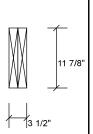
3100 SP

1.750" X 11.875"

Project #: 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 l b	239 l b	0 lb	0 lb	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.

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

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

Handling & Installation

Handling & Installation

1. 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: ZADORRA/ESTATES Address: OSHAWA,ON

Project #:

7/14/2023 Input by: WC

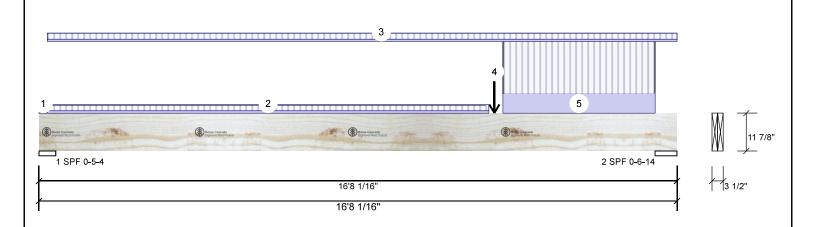
Name: ROSE 12-2 STD

3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor



Member Infor	mation			Unf	actored Rea	actions U	NP/	ATTERNED II	o (Upl	ift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Liv	е	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	56	1	316		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2 Vertical		'ertical 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	<u> </u>							
Floor Live:	40 PSF			Bea	rings and Fa	actored F	Read	ctions			
Dead:	15 PSF			Bea	aring Length	Dir. C	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 5.250"	Vert	11%	395 / 841	1236	L	1.25D+1.5L
				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.



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	/ Lateral steriderness ratio based on ruli section within									
П	D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	1	Tie-In	0-0-0 to 0-2-10	0-6-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	2	Tie-In	0-2-10 to 11-9-1	0-6-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	3	Tie-In	0-2-10 to 16-8-1	0-6-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	4	Point	11-10-13		Far Face	202 l b	463 lb	0 l b	0 l b	F4
5	5	Part. Uniform	12-1-8 to 16-1-3		Тор	70 PLF	185 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

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





TRUE COPY Address:

Client: **GREENPARK** Project:

ZADORRALISTATE

Input by:

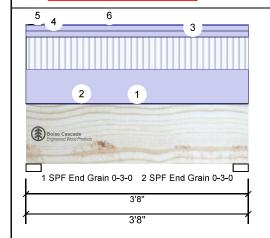
7/14/2023 WC

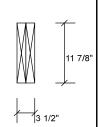
Name: ROSE 12-2 STD

3100 SP

1.750" X 11.875"

2-Ply - PASSED Level: Ground Floor





Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

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

Analysis Results

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

Bearing	Length	Dir.	Cap. F	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



- 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.



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	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

Continued on page 2...

Notes

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

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







Client: Project:

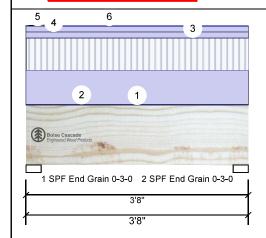
GREENPARK

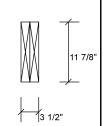
7/14/2023 Input by:

 $W\, C$ Name: ROSE 12-2 STD

ZADORINA STATES OSHAWA, ON 1.750" X 11.875" 3100 SP

Project #: 2-Ply - PASSED Level: Ground Floor





Continued	from	page	1

ID	Load Type	Location Trib Wid	th Side	Dead	Live	Snow	Wind	Comments
5	Tapered Start	0-0-0	Near Face	1 PLF	3 PLF	0 PLF	0 PLF	
	End	0-4-9		2 PLF	5 PLF	0 PLF	0 PLF	
6	Tapered Start	0-4-9	Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	3-8-0		0 PLF	1 PLF	0 PLF	0 PLF	
	Self Weight			12 PLF				



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Handling & Installation

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1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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Page 1 of 7

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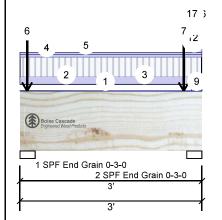
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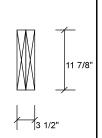
7/14/2023 Input by: W C

Job Name: ROSE 12-2 DC

1.750" X 11.875" 3100 SP

2-Ply - PASSED Level: Ground Floor





Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1002	815	234	0
2	Vertical	1018	828	242	0

Analysis Results

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	757 ft-lb	1'7"	35392 ft-lb	0.021 (2%)	1.25D+1.5L +S	L
Unbraced	757 ft-lb	1'7"	35392 ft-lb	0.021 (2%)	1.25D+1.5L +S	L
Shear	983 lb	1'2 7/8"	13217 l b	0.074 (7%)	1.25D+1.5L +S	L
Perm Defl in.	0.000 (L/96959)	1'6 7/16"	0.088 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch	0.000 (L/65592)	1'6 3/8"	0.088 (L/360)	0.005 (1%)	L+0.5S	L
TL Defl inch	0.001 (L/39125)	1'6 3/8"	0.131 (L/240)	0.006 (1%)	D+L+0.5S	L

Bearings and Factored Reactions

I	Bearing	Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
	1 - SPF End Grain	3.000"	Vert	25%	1018 / 1736	2754	L	1.25D+1.5L +S
	2 - SPF End Grain	3.000"	Vert	26%	1035 / 1769	2804	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 3.
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
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Dry service conditions, unless noted otherwise
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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

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Kott Inc.

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





Page 2 of 7



Client: **GREENPARK**

Project: ZADORINA STATES OSHAWA, ON Address:

Input by: Project #:

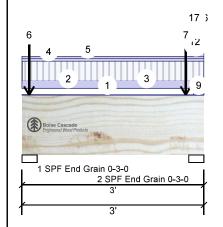
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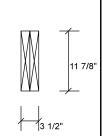
Name: ROSE 12-2 DC

1.750" X 11.875" 3100 SP

2-Ply - PASSED Level: Ground Floor

Date:





	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
l	1	Tapered Start	0-0-0		Near Face	2 PLF	4 PLF	0 PLF	0 PLF	
l		End	3-0-0			0 PLF	1 PLF	0 PLF	0 PLF	
l	2	Part. Uniform	0-0-0 to 3-0-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
l	3	Part. Uniform	0-0-0 to 3-0-0		Near Face	124 PLF	331 PLF	0 PLF	0 PLF	J4
	4	Part. Uniform	0-0-0 to 3-0-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	5	Part. Uniform	0-0-0 to 3-0-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	6	Point	0-1-6		Тор	463 lb	480 lb	224 lb	0 lb	Header Column Header Column
		Bearing Length	0-3-8							
	7	Point	2-8-6		Тор	463 lb	480 lb	224 l b	0 lb	Header Column Header Column
		Bearing Length	0-3-8							
l	9	Part. Uniform	2-9-14 to 3-0-0		Тор	30 PLF	0 PLF	79 PLF	0 PLF	
l	10	Part. Uniform	2-9-14 to 3-0-0		Тор	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
l	11	Part. Uniform	2-9-14 to 3-0-0		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	12	Part. Uniform	2-9-14 to 3-0-0		Тор	78 PLF	169 PLF	0 PLF	0 PLF	J4
	14	Part. Uniform	2-9-14 to 3-0-0		Near Face	30 PLF	0 PLF	79 PLF	0 PLF	
	15	Part. Uniform	2-9-14 to 3-0-0		Near Face	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
I	16	Part. Uniform	2-9-14 to 3-0-0		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
I	17	Part. Uniform	2-9-14 to 3-0-0		Near Face	78 PLF	169 PLF	0 PLF	0 PLF	J4
I		Self Weight				12 PLF				
1										

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Handling & Installation

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Page 3 of 7

TRUE COPY Project: Address:

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ZADORRA/ESFATES

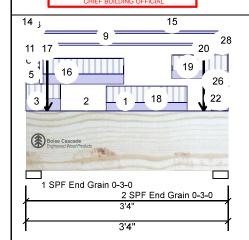
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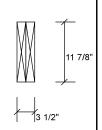
Name: ROSE 12-2 DC

1.750" X 11.875" 3100 SP

2-Ply - PASSED

Level: Ground Floor





Member Information

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

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1104	1009	287	0
2	Vertical	1085	989	382	0

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	1233 ft-lb	1'7 11/16"	35392 ft-lb	0.035 (3%)	1.25D+1.5L +S	L
Unbraced	1233 ft-lb	1'7 11/16"	35392 ft-lb	0.035 (3%)	1.25D+1.5L +S	L
Shear	1419 lb	2'1 1/8"	13217 lb	0.107 (11%)	1.25D+1.5L +S	L
Perm Defl in.	0.001 (L/48181)	1'8"	0.099 (L/360)	0.007 (1%)	D	Uniform
LL Defl inch	0.001 (L/39323)	1'8 1/16"	0.099 (L/360)	0.009 (1%)	L+0.5S	L
TL Defl inch	0.002 (L/21652)	1'8 1/16"	0.148 (L/240)	0.011 (1%)	D+L+0.5S	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	29%	1262 / 1943	3205	L	1.25D+1.5L +S
2 - SPF End Grain	3.000"	Vert	30%	1237 / 2009	3246	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 3.
- 2 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 3.
- 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.



JULY 14, 2023

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Notes

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

Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

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

Kott Inc.

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





TRUE COPY isDesign 2022 Address:

Client: **GREENPARK** Project:

ZADORRA/ESFATES OSHAWA,ON

Input by: Project #:

7/14/2023 WC

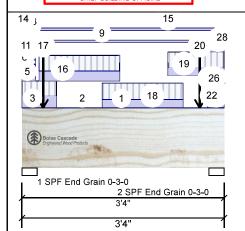
Job Name: ROSE 12-2 DC

1E 3100 SP

1.750" X 11.875"

2-Ply - PASSED

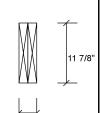
Level: Ground Floor





Date:

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ID	Lead Torre	1	Talle VAR-10	0:4-	D	15	0	105 1	2
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-4-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
2	Tapered Start	0-0-0		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	3-0-14			0 PLF	1 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 0-6-14		Near Face	199 PLF	231 PLF	0 PLF	0 PLF	J4
5	Part. Uniform	0-0-0 to 0-2-11		Near Face	63 PLF	168 PLF	0 PLF	0 PLF	J4
6	Part. Uniform	0-0-0 to 0-2-11		Near Face	30 PLF	0 PLF	79 PLF	0 PLF	
7	Part. Uniform	0-0-0 to 0-2-11		Near Face	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Part. Uniform	0-0-0 to 0-2-11		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
9	Part. Uniform	0-0-0 to 3-4-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
11	Part. Uniform	0-0-0 to 0-2-11		Тор	63 PLF	168 PLF	0 PLF	0 PLF	J4
12	Part. Uniform	0-0-0 to 0-2-11		Тор	30 PLF	0 PLF	79 PLF	0 PLF	
13	Part. Uniform	0-0-0 to 0-2-11		Тор	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
14	Part. Uniform	0-0-0 to 0-2-11		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
15	Part. Uniform	0-0-0 to 3-4-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
16	Part. Uniform	0-3-6 to 1-7-6		Near Face	159 PLF	257 PLF	0 PLF	0 PLF	J4
17	Point	0-4-3		Тор	425 lb	477 lb	236 lb	0 lb	Header Column Header Column
	Bearing Length	0-3-8							
18	Part. Uniform	1-3-14 to 2-7-14		Near Face	134 PLF	262 PLF	0 PLF	0 PLF	J4
19	Part. Uniform	2-4-14 to 3-4-0		Near Face	126 PLF	257 PLF	0 PLF	0 PLF	J4
20	Point	2-11-3		Тор	509 lb	477 lb	398 lb	0 lb	Header Column Header Column
	Bearing Length	0-3-8							
22	Part. Uniform	3-0-11 to 3-4-0		Тор	63 PLF	168 PLF	0 PLF	0 PLF	J4
23	Part. Uniform	3-0-11 to 3-4-0		Тор	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
24	Part. Uniform	3-0-11 to 3-4-0		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
26	Part. Uniform	3-0-11 to 3-4-0		Near Face	63 PLF	168 PLF	0 PLF	0 PLF	J4
27	Part. Uniform	3-0-11 to 3-4-0		Near Face	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
28	Part. Uniform	3-0-11 to 3-4-0		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
31	Tapered Start	3-0-14		Near Face	2 PLF	5 PLF	0 PLF	0 PLF	
Continued on pag	e 3								

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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

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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

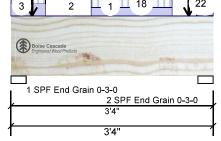
Manufacturer Info Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

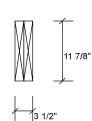
(800) 232-0788 www.bc.com CCMC: 12472

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









.Continued from page 2

ID Location Trib Width Side Comments Load Type Dead Live Snow Wind 3-4-0 1 PLF 4 PLF 0 PLF 0 PLF End Self Weight 12 PLF



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Manufacturer Info

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Kott Inc.

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





TRUE COPY isDesign 2022 Address:

Client: **GREENPARK** Project:

ZADORRAESFATES

Input by: Project #:

7/14/2023 WC

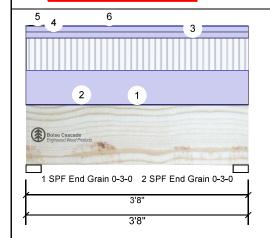
Name: ROSE 12-2 DC

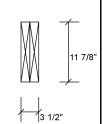
3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





Member	Information
Type:	Girder

Type.	Girdei
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

Floor Live: 40 PSF Dead: 15 PSF

Application: Floor (Residential)

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

OBC 2012(2020 Update)

Load Sharing:

Deck: Not Checked

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

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

Analysis Results

Analysis	Actual	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 l b	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

- **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.
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- 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.

	Bearings	Bearings and Factored Reactions											
I	Bearing	Length	Dir.	Cap.	React D/L Ib	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					



JULY 14, 2023

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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

Continued on page 2...

Notes

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

Manufacturer Info 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

Kott Inc.

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



Page 7 of 7



Client: **GREENPARK**

ZADORINA STATES OSHAWA, ON

Input by:

7/14/2023 $W\, C$

Project #:

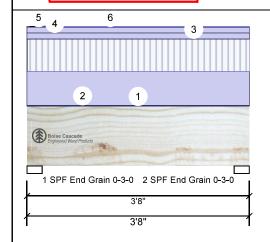
Date:

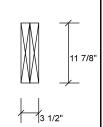
Name: ROSE 12-2 DC

1.750" X 11.875" 3100 SP

2-Ply - PASSED

Level: Ground Floor





..Continued from page 1

I D	Load Type	Location Trib Width	n Side	Dead	Live	Snow	Wind	Comments
5	Tapered Start	0-0-0	Near Face	1 PLF	3 PLF	0 PLF	0 PLF	
	End	0-4-9		2 PLF	5 PLF	0 PLF	0 PLF	
6	Tapered Start	0-4-9	Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	3-8-0		0 PLF	1 PLF	0 PLF	0 PLF	
	Self Weight			12 PLF				



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Manufacturer Info

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

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

Kott Inc.

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







Client: **GREENPARK**

ZADORRA/ESFATES OSHAWA, ON

Input by:

7/14/2023

WС

Project #:

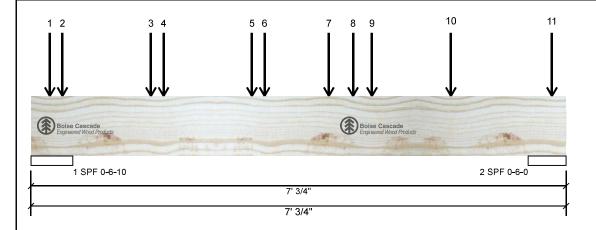
Date:

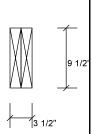
Name: ROSE 12-2 STD

1.750" X 9.500" 00 SP

2-Ply - PASSED

Level: Second Floor





Member Information

B4

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

General Load 40 PSF

Floor Live: 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	2060	857	0	0
2	Vertical	2019	852	0	0

Bearings and Factored Reactions

Bearing Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF 6.625"	Vert	29%	1072 / 3090	4162	L	1.25D+1.5L
2-SPF 6,000"	Vert	32%	1066 / 3028	4094	1	1 25D+1 5I

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6692 ft-lb	3'11 3/16"	23220 ft-lb	0.288 (29%)	1.25D+1.5L	L
Unbraced	6692 ft-lb	3'11 3/16"	23220 ft-lb	0.288 (29%)	1.25D+1.5L	L
Shear	3522 lb	1'4 1/8"	10574 lb	0.333 (33%)	1.25D+1.5L	L
Perm Defl in.	0.018 (L/4027)	3'6 15/16"	0.204 (L/360)	0.089 (9%)	D	Uniform
LL Defl inch	0.042 (L/1732)	3'6 3/4"	0.204 (L/360)	0.208 (21%)	L	L
TL Defl inch	0.061 (L/1211)	3'6 13/16"	0.307 (L/240)	0.198 (20%)	D+L	L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
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- 8 Lateral slenderness ratio based on full section width.



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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-3-0		Тор	60 lb	151 l b	0 lb	0 l b	J4
	Bearing Length	0-3-8							
2	Point	0-5-0		Тор	63 lb	169 l b	0 lb	0 l b	J4
	Bearing Length	0-3-8							

Continued on page 2...

Notes

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

Handling & Installation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

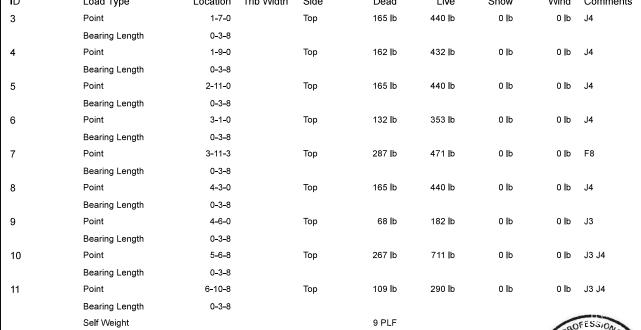
Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

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

Manufacturer Info

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







JULY 14, 2023

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Manufacturer Info

Kott Inc.

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







B7

Client: **GREENPARK**

ZADORINA SFATES Address: OSHAWA, ON

Input by: Project #:

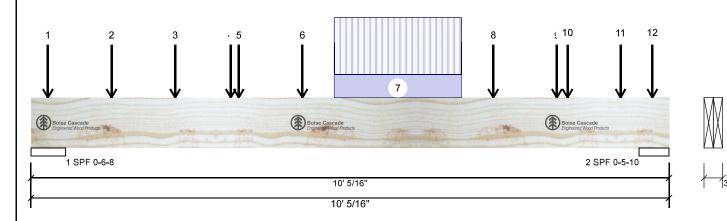
7/14/2023 W C

Name: ROSE 12-2 STD

1.750" X 9.500" 00 SP

2-Ply - PASSED

Level: Second Floor



Member Information Type:

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:

Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	3041	1296	0	0
2	Vertical	3009	1276	0	0

Bearings and Factored Reactions

Bearing Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF 6.521"	Vert	44%	1620 / 4562	6182	L	1.25D+1.5L
2 - SPF 5.652"	Vert	50%	1595 / 4513	6108	L	1.25D+1.5L

Analysis Results

Dead:

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	13717 ft-lb	5' 5/8"	23220 ft-lb	0.591 (59%)	1.25D+1.5L	L
Unbraced	13717 ft-lb	5' 5/8"	23220 ft-lb	0.591 (59%)	1.25D+1.5L	L
Shear	5534 lb	1'4"	10574 lb	0.523 (52%)	1.25D+1.5L	L
Perm Defl in.	0.083 (L/1318)	5' 9/16"	0.305 (L/360)	0.273 (27%)	D	Uniform
LL Defl inch	0.196 (L/560)	5' 9/16"	0.305 (L/360)	0.643 (64%)	L	L
TL Defl inch	0.279 (L/393)	5' 9/16"	0.457 (L/240)	0.611 (61%)	D+L	L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
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JULY 14, 2023

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Point	0-3-3		Тор	107 l b	262 lb	0 l b	0 l b	J4 J6	
	Bearing Length	0-3-8								
2	Point	1-3-3		Тор	265 lb	647 l b	0 l b	0 lb	J4 J6	
	Bearing Length	0-3-8								

Continued on page 2...

Notes

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 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





ı	Continued from p	age i								
l	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
l	3	Point	2-3-3		Тор	258 lb	627 l b	0 b	0 lb	J4 J6
l		Bearing Length	0-3-8							
	4	Point	3-1-11		Тор	124 b	317 lb	0 b	0 lb	J6
		Bearing Length	0-3-8							
	5	Point	3-3-3		Тор	144 lb	333 lb	0 lb	0 l b	J4
		Bearing Length	0-3-8							
	6	Point	4-3-3		Тор	275 lb	670 l b	0 lb	0 l b	J4 J6
		Bearing Length	0-3-8							
	7	Part. Uniform	4-9-3 to 6-9-3		Тор	267 PLF	650 PLF	0 PLF	0 PLF	
	8	Point	7-3-3		Тор	275 b	673 lb	0 b	0 l b	J6 J4
		Bearing Length	0-3-8							
	9	Point	8-3-3		Тор	142 lb	330 lb	0 lb	0 l b	J4
		Bearing Length	0-3-8							
	10	Point	8-5-3		Тор	149 lb	396 lb	0 lb	0 l b	J6
l		Bearing Length	0-3-8							
	11	Point	9-3-3		Тор	142 lb	330 lb	0 l b	0 l b	J4
		Bearing Length	0-3-8							
l	12	Point	9-9-3		Тор	62 lb	165 b	0 b	0 l b	J6
I		Bearing Length	0-3-8							
		Self Weight				9 PLF			/	OROFESSION



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

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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 isDesign 2022 B7-A

Client: **GREENPARK**

Project: ZADORINA SFATES Address:

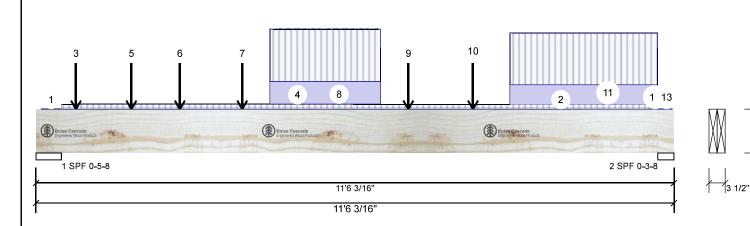
Input by: Job Name: Project #

7/14/2023 W C

ROSE 12-2 STD

1.750" X 9.500" 3100 SP

2-Ply - PASSED Level: Second Floor



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** 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:

Brg Direction Live Dead Snow Wind 1937 880 Vertical 0 1 0 2 Vertica 1845 785 n 0

Bearings and Factored Reactions

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 5.500" Vert 34% 1100 / 2905 4005 L 1.25D+1.5L 3.500" 2 - SPF Vert 50% 981 / 2768 3749 I 1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	10524 ft-lb	5'9 3/4"	23220 ft-lb	0.453 (45%)	1.25D+1.5L	L
Unbraced	10524 ft-lb	5'9 3/4"	23220 ft-lb	0.453 (45%)	1.25D+1.5L	L
Shear	3525 lb	1'3"	10574 lb	0.333 (33%)	1.25D+1.5L	L
Perm Defl in.	0.093 (L/1408)	5'9 3/4"	0.363 (L/360)	0.256 (26%)	D	Uniform
LL Defl inch	0.210 (L/622)	5'10 1/8"	0.363 (L/360)	0.579 (58%)	L	L
TL Defl inch	0.303 (L/431)	5'10"	0.545 (L/240)	0.556 (56%)	D+L	L

Design Notes

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



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tapered Start	0-1-2		Тор	0 PLF	1 PLF	0 PLF	0 PLF	
	End	0-5-8			0 PLF	1 PLF	0 PLF	0 PLF	
2	Tapered Start	0-5-8		Тор	8 PLF	22 PLF	0 PLF	0 PLF	
	End	11-0-11			8 PLF	22 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

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







..Continued from page 1

Client: **GREENPARK**

Project: ZADOR**RA SFA** ESOSHAWA,ON Address:

Input by: Project # 7/14/2023 WC

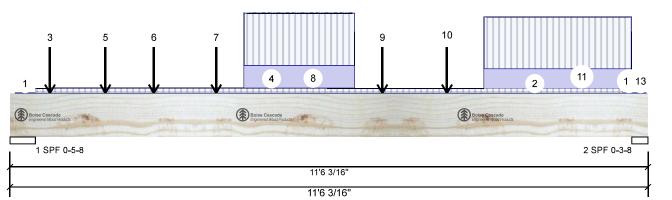
Name: ROSE 12-2 STD

3100 SP

1.750" X 9.500"

2-Ply - PASSED Level: Second Floor

Date:



$\bigvee\!$	9 1/2"
3 1/	/ 2"

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	(
3	Point	0-8-11		Тор	138 l b	323 lb	0 lb	0 l b	,
	Bearing Length	0-3-8							
4	Part. Uniform	0-8-11 to 5-8-10		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-8-11		Тор	131 l b	303 lb	0 lb	0 l b	
	Bearing Length	0-3-8							
6	Point	2-7-3		Тор	143 l b	323 lb	0 lb	0 l b	
	Bearing Length	0-3-8							
7	Point	3-8-11		Тор	150 l b	343 lb	0 lb	0 l b	,
	Bearing Length	0-3-8							
8	Part. Uniform	4-2-11 to 6-2-11		Тор	138 PLF	323 PLF	0 PLF	0 PLF	
9	Point	6-8-11		Тор	147 l b	350 lb	0 l b	0 l b	
	Bearing Length	0-3-8							
10	Point	7-10-11		Тор	151 lb	404 l b	0 lb	0 lb	,
	Bearing Length	0-3-8							
11	Part. Uniform	8-6-11 to 11-2-11		Тор	120 PLF	321 PLF	0 PLF	0 PLF	
12	Tapered Start	11-0-11		Тор	0 PLF	1 PLF	0 PLF	0 PLF	
	End	11-3-7			0 PLF	1 PLF	0 PLF	0 PLF	
13	Tapered Start	11-3-7		Тор	0 PLF	1 PLF	0 PLF	0 PLF	
	End	11-5-12			0 PLF	1 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF				



Comments J6

J6

J6

J6

J6

J6

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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

(800) 232-0788

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 www.bc.com CCMC: 12472

Kott Inc.

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





TRUE COPY isDesign 2022 Address:

Client: **GREENPARK** Project:

ZADORRANES FATER OSHAWA, ON

Input by:

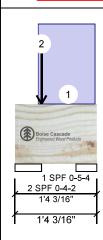
7/14/2023 WС

Name: ROSE 12-2 STD

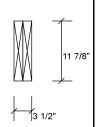
100 SP

1.750" X 11.875"

2-Ply - PASSED Level: Second Floor



F10



Member	Information
--------	-------------

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

Floor Live: 40 PSF 15 PSF Dead:

Application: Floor (Residential)

> Design Method: LSD Building Code:

NBCC 2015 OBC 2012(2020 Update)

Load Sharing:

Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	208	117	0	0
2	Vertical	0	61	0	0

Bearings and Factored Reactions

Bearing Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF 5.250"	Vert	4%	146 / 312	458	L	1.25D+1.5L
2 - SPF 4.125"	Vert	1%	86 / 0	86	Uniform	1.4D

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	9 ft-lb	8 5/8"	23005 ft-lb	0.000 (0%)	1.4D	Uniform
Unbraced	9 ft-lb	8 5/8"	23005 ft-lb	0.000 (0%)	1.4D	Uniform
Shear	39 lb	1'5 1/8"	8591 lb	0.005 (0%)	1.4D	Uniform
Perm Defl in.	0.000 (L/3910920)	8 11/16"	0.023 (L/360)	0.000 (0%)	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.000 (L/3910920)	8 11/16"	0.035 (L/240)	0.000 (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 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.



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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Part. Uniform	0-4-9 to 1-3-13		Тор	90 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	
2	Point	0-5-4		Far Face	78 l b	208 lb	0 lb	0 lb	J5	
	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.

www.bc.com CCMC: 12472

Boise. ID 83702 (800) 232-0788

Kott Inc.

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





Client: **GREENPARK**

> ZADORRA/ESTATES OSHAWA, ON

Input by: Project #

7/14/2023 WC

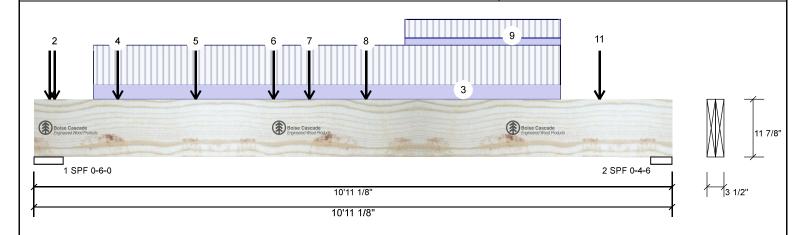
Name: ROSE 12-2 STD

100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Second Floor



Member Infor		Unfactored Reactions UNPATTERNED lb (Uplift)									
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	28	878	1168		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	2	354	963		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. Case	Ld. Comb.
				1 -	SPF 6.000"	Vert	45%	1460 / 4317	5778	L	1.25D+1.5L
				1 2-	SPF 4.375"	Vert	50%	1204 / 3530	4734	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13015 ft-lb	5'6 1/2"	35392 ft-lb	0.368 (37%)	1.25D+1.5L	L
Unbraced	13015 ft-lb	5'6 1/2"	35392 ft-lb	0.368 (37%)	1.25D+1.5L	L
Shear	4992 lb	9'6 7/8"	13217 l b	0.378 (38%)	1.25D+1.5L	L
Perm Defl in	0.049 (L/2492)	5'6 1/16"	0.340 (L/360)	0.144 (14%)	D	Uniform
LL Defl inch	0.119 (L/1023)	5'6 1/8"	0.340 (L/360)	0.352 (35%)	L	L
TL Defl inch	0.168 (L/725)	5'6 1/8"	0.509 (L/240)	0.331 (33%)	D+L	L

Design Notes

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



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ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 1 Point 0-3-4 Near Face 72 lb 191 lb 0 lb 0 lb J3 2 Point 0-4-4 Far Face 109 lb 291 lb 0 lb 0 lb J4 3 Part. Uniform 1-0-4 to 9-0-4 Far Face 123 PLF 327 PLF 0 PLF 0 PLF 4 Point 1-5-4 Near Face 108 lb 287 lb 0 lb 0 lb J3 5 Point 2-9-4 Near Face 115 lb 306 lb 0 lb 0 lb J3 6 Point 4-1-4 Near Face 84 lb 224 lb 0 lb 0 lb J3										
2 Point 0-4-4 Far Face 109 lb 291 lb 0 lb 0 lb J4 3 Part. Uniform 1-0-4 to 9-0-4 Far Face 123 PLF 327 PLF 0 PLF 4 Point 1-5-4 Near Face 108 lb 287 lb 0 lb 0 lb J3 5 Point 2-9-4 Near Face 115 lb 306 lb 0 lb 0 lb J3	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
3 Part. Uniform 1-0-4 to 9-0-4 Far Face 123 PLF 327 PLF 0 PLF 0 PLF 4 Point 1-5-4 Near Face 108 lb 287 lb 0 lb 0 lb J3 5 Point 2-9-4 Near Face 115 lb 306 lb 0 lb 0 lb J3	1	Point	0-3-4		Near Face	72 lb	191 l b	0 l b	0 lb	J3
4 Point 1-5-4 Near Face 108 lb 287 lb 0 lb 0 lb J3 5 Point 2-9-4 Near Face 115 lb 306 lb 0 lb 0 lb J3	2	Point	0-4-4		Far Face	109 lb	291 l b	0 l b	0 l b	J4
5 Point 2-9-4 Near Face 115 lb 306 lb 0 lb 0 lb J3	3	Part. Uniform	1-0-4 to 9-0-4		Far Face	123 PLF	327 PLF	0 PLF	0 PLF	
	4	Point	1-5-4		Near Face	108 l b	287 lb	0 l b	0 l b	J3
6 Point 4-1-4 Near Face 84 lb 224 lb 0 lb 0 lb J3	5	Point	2-9-4		Near Face	115 lb	306 lb	0 l b	0 lb	J3
	6	Point	4-1-4		Near Face	84 l b	224 lb	0 l b	0 lb	J3

Continued on page 2...

Notes

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Dry service conditions, unless noted otherwise
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Handling & Installation

Handling & Installation

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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







F11

Client: **GREENPARK** Project:

ZADORINA STATES OSHAWA, ON

Input by: Project #: 7/14/2023

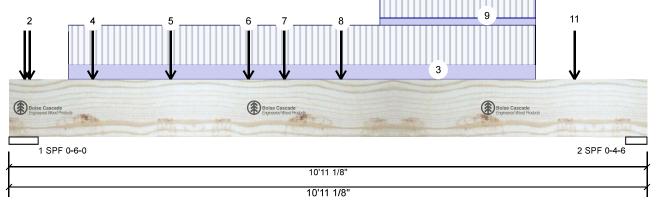
WC Name: ROSE 12-2 STD

100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Second Floor



	11 7/8"
3 1	/2"

Continued from	n page 1							
I D	Load Type	Location Trib Width	Side	Dead	Live	Snow	Wind	Comments
7	Point	4-8-10	Near Face	70 lb	91 l b	0 lb	0 l b	F11
8	Point	5-8-4	Near Face	68 lb	180 l b	0 lb	0 lb	J2
9	Part. Uniform	6-4-4 to 9-0-4	Near Face	59 PLF	157 PLF	0 PLF	0 PLF	
10	Point	9-8-4	Far Face	161 lb	429 l b	0 lb	0 lb	J4
11	Point	9-8-4	Near Face	74 lb	198 l b	0 lb	0 lb	J2
	Self Weight			12 PLF				



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





TRUE COPY isDesign 2022 Address:

Client: **GREENPARK** Project:

ZADORRA/ESFATES OSHAWA, ON

Input by: Project #:

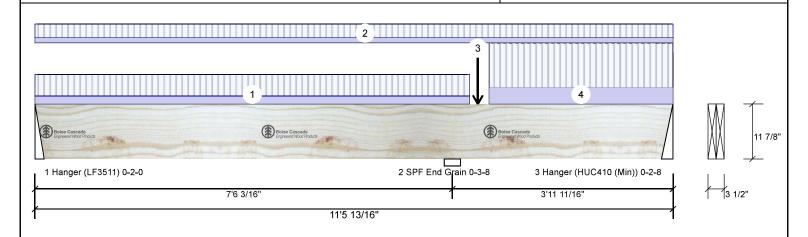
7/14/2023 WC

Name: ROSE 12-2 STD

1.750" X 11.875" 3100 SP

2-Ply - PASSED

Level: Second Floor



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

Analysis	Results
----------	---------

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-527 ft-lb	7'6 3/16"	35392 ft-lb	0.015 (1%)	1.25D+1.5L	LL
Unbraced	-527 ft-lb	7'6 3/16"	32836 ft-lb	0.016 (2%)	1.25D+1.5L	LL
Pos Moment	347 ft-lb	3'1 1/4"	30083 ft-lb	0.012 (1%)	1.25D+1.5L	L_
Unbraced	347 ft-lb	3'1 1/4"	30083 ft-lb	0.012 (1%)	1.25D+1.5L	L_
Shear	991 lb	8'7 13/16"	13217 l b	0.075 (7%)	1.25D+1.5L	LL
Perm Defl in.	0.001 (L/114947)	3'4 1/16"	0.247 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/66038)	3'6 5/16"	0.247 (L/360)	0.005 (1%)	L	L_
TL Defl inch	0.002 (L/41979)	3'5 7/16"	0.370 (L/240)	0.006 (1%)	D+L	L_

Design Notes

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

Unfactored Reactions UNPATTERNED Ib (Uplift)

				`	
Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	91	70	0	0
2	Vertical	645	365	0	0
3	Vertical	96	48	0	0

Bearings and Factored Reactions

Dearings	anu ra	ictorea	iiveat	LUOIIS			
Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	4%	87 / 152	239	L_	1.25D+1.5L
2 - SPF End Grain	3.500"	Vert	11%	458 / 969	1427	LL	1.25D+1.5L
3 - Hanger	2.500"	Vert	3%	59 / 199	258 (-2)	_L	1.25D+1.5L (0.9D+1.5L)



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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

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







Client: **GREENPARK**

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

Date: 7/14/2023 Input by: WC

Project #:

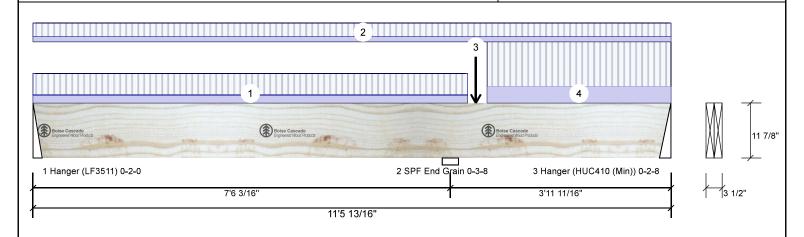
Name: ROSE 12-2 STD

3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Second Floor



I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 7-9-15	0-5-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 11-5-13	0-3-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	7-11-11		Far Face	188 lb	406 lb	0 l b	0 lb	F5
4	Part. Uniform	8-2-1 to 11-5-13		Тор	15 PLF	40 PLF	0 PLF	0 PLF	
	Self Weight				12 PLF				



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Notes

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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

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

3. Damaged Beams must not be used

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Manufacturer Info

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

www.bc.com CCMC: 12472

Kott Inc.

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





TRUE COPY IT PLANS

Client: **GREENPARK**

Project: ZADORRA SFATES Address: OSHAWA, ON

Input by: Project #:

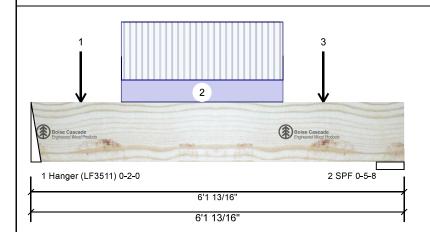
7/14/2023 W C

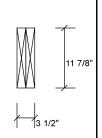
Name: ROSE 12-2 STD

1.750" X 11.875" 00 SP

2-Ply - PASSED

Level: Second Floor





Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Member Information Type Girder

Type.	Ciraci
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

40 PSF Floor Live: 15 PSF Dead:

Application: Floor (Residential)

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

OBC 2012(2020 Update) Load Sharing:

Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Bearings and Factored Reactions

Dir.

Vert

Vert

Bearing Length

2 - SPF 5.500"

Hanger

2.000"

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	406	188	0	0
2	Vertical	384	182	0	0

Cap. React D/L lb

11%

7%

235 / 609

228 / 577

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1252 ft-lb	2'11 3/16"	35392 ft-lb	0.035 (4%)	1.25D+1.5L	L
Unbraced	1252 ft-lb	2'11 3/16"	35392 ft-lb	0.035 (4%)	1.25D+1.5L	L
Shear	842 lb	1'1 7/8"	13217 l b	0.064 (6%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/42002)	2'11 3/16"	0.188 (L/360)	0.009 (1%)	D	Uniform
LL Defl inch	0.004 (L/19067)	2'11 3/16"	0.188 (L/360)	0.019 (2%)	L	L
TL Defl inch	0.005 (L/13114)	2'11 3/16"	0.283 (L/240)	0.018 (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 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.

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	JULY 14, 2023	

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

				,		
R	Lateral	slendernes	s ratio ha	sed on fu	II secti	on width

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-9-14		Far Face	68 lb	180 l b	0 lb	0 l b	J2
2	Part. Uniform	1-5-14 to 4-1-14		Far Face	59 PLF	157 PLF	0 PLF	0 PLF	
3	Point	4-9-14		Far Face	72 l b	192 l b	0 lb	0 b	J2
	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

Total Ld. Case

844 L

805 L

613-838-2775 / 905-642-4400





Client: Project:

ZADORINA ESTATES OSHAWA, ON

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

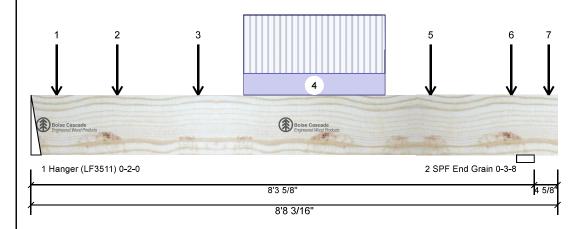
Name: ROSE 12-2 STD

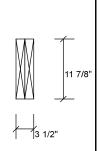
00 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Second Floor





Page 51 of 53

Page 39 of 41

Member Information

ſ	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
l	General Load		Vibration:	Not Checked
ı	Floor Live:	40 PSF		
ı	Dead:	15 PSF		
١				

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	921	394	0	0
2	Vertical	1042	457	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-50 ft-lb	8'3 5/8"	23005 ft-lb	0.002 (0%)	1.25D+1.5L	_L
Pos Moment	3722 ft-lb	4'1 7/8"	35392 ft-lb	0.105 (11%)	1.25D+1.5L	L_
Unbraced	3722 ft-lb	4'1 7/8"	35392 ft-lb	0.105 (11%)	1.25D+1.5L	L_
Shear	1920 lb	7' 1/4"	13217 l b	0.145 (15%)	1.25D+1.5L	LL
Perm Defl in.	0.009 (L/10700)	4'1 7/16"	0.268 (L/360)	0.034 (3%)	D	Uniform
LL Defl inch	0.021 (L/4531)	4'1 1/2"	0.268 (L/360)	0.079 (8%)	L	L_
TL Defl inch	0.030 (L/3183)	4'1 1/2"	0.403 (L/240)	0.075 (8%)	D+L	L_
LL Cant	-0.003 (2L/2906)	Rt Cant	0.200 (2L/360)	0.016 (2%)	L	L_
TL Cant	-0.005 (2L/2047)	Rt Cant	0.300 (2L/240)	0.015 (2%)	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	25%	493 / 1386	1879	L_	1.25D+1.5L
2 - SPF End Grain	3.500"	Vert	17%	571 / 1563	2134	LL	1.25D+1.5L

Design Notes

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

8 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

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: TRUE COPY Project: isDesign 2023

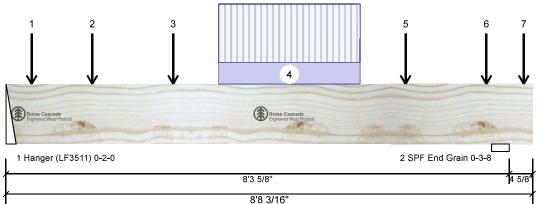
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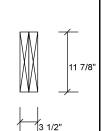
ZADORINA STATES OSHAWA,ON Address:

Name: ROSE 12-2 STD Project #: 2-Ply - PASSED

Level: Second Floor

1.750" X 11.875" 00 SP





I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-5-1		Far Face	69 lb	183 l b	0 l b	0 l b	J3
2	Point	1-5-1		Far Face	102 lb	272 l b	0 l b	0 l b	J3
3	Point	2-9-1		Far Face	116 l b	308 lb	0 l b	0 l b	J3
4	Part. Uniform	3-6-1 to 5-10-1		Far Face	92 PLF	246 PLF	0 PLF	0 PLF	
5	Point	6-7-1		Far Face	115 l b	306 lb	0 l b	0 l b	J3
6	Point	7-11-1		Far Face	84 lb	224 lb	0 l b	0 l b	J3
7	Point	8-6-7		Far Face	48 lb	96 l b	0 l b	0 l b	F11
	Self Weight				12 PLF				



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Handling & Installation

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(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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F8

Client: **GREENPARK** Project:

Address:

ZADORINA STATES

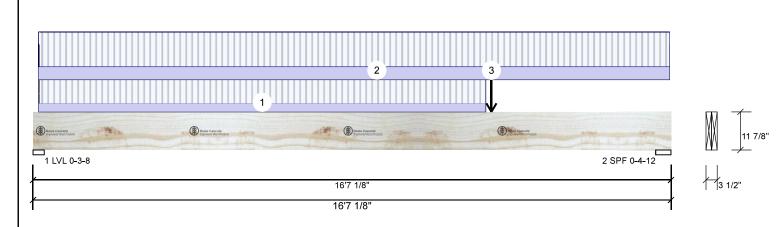
Input by: Project #: 7/14/2023 W C

Name: ROSE 12-2 STD

OSHAWA, ON 1.750" X 11.875" 00 SP

2-Ply - PASSED

Level: Second Floor



Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Girder Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 2 Design Method: LSD 471 287 Vertical 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertica 860 457 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. 359 / 707 1 - LVL 3.500" Vert 8% 1066 L 1.25D+1.5L 1.25D+1.5L 2 - SPF 4.778" Vert 18% 571 / 1290 1862 L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	7551 ft-lb	11'11 1/16"	35392 ft-lb	0.213 (21%)	1.25D+1.5L	L
Unbraced	7551 ft-lb	11'11 1/16"	35392 ft-lb	0.213 (21%)	1.25D+1.5L	L
Shear	1810 l b	15'2 1/2"	13217 l b	0.137 (14%)	1.25D+1.5L	L
Perm Defl in.	0.074 (L/2604)	8'9"	0.534 (L/360)	0.138 (14%)	D	Uniform
LL Defl inch	0.137 (L/1401)	8'10 9/16"	0.534 (L/360)	0.257 (26%)	L	L
TL Defl inch	0.211 (L/911)	8'10"	0.801 (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 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 11'11 1/16" o.c.
- 7 Lateral slenderness ratio based on full section width.



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I	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-1-12 to 11-9-5	0-3-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-1-12 to 16-6-12	0-5-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	11-11-1		Far Face	394 l b	921 b	0 l b	0 lb	F6
	Self Weight				12 PLF				

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Handling & Installation

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

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

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



This design is valid until 4/17/2026



Kott Inc.