

# Engineering Notes: EWP-Floors



### PLEASE READ ALL NOTES PRIOR TO INSTALLATION OF THE COMPONENT

## RESPONSIBILTIES

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

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

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

# COMPONENT DESIGN INFORMATION

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

### CODE

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

# HANDLING AND INSTALLATION

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



1

# MHP 23032

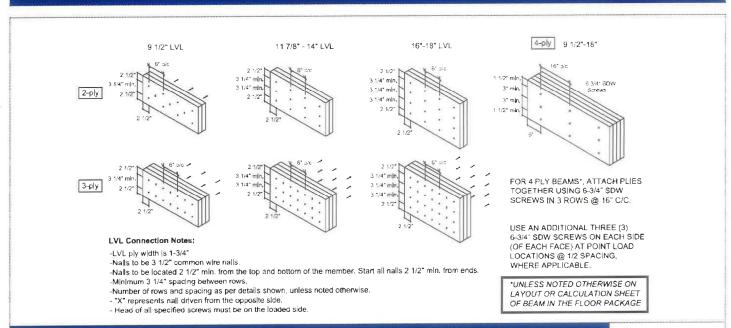
ENG-IM0723-103-KTF-GREENPARK-ZADORRA ESTATES-ROSE 12-2

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

Page 2 of 53



# MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS



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



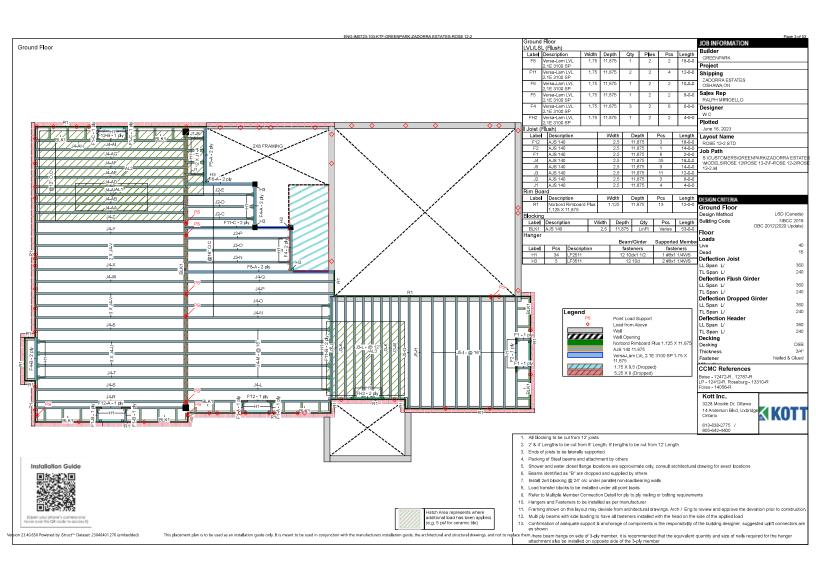


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Last Revised January 13, 2023

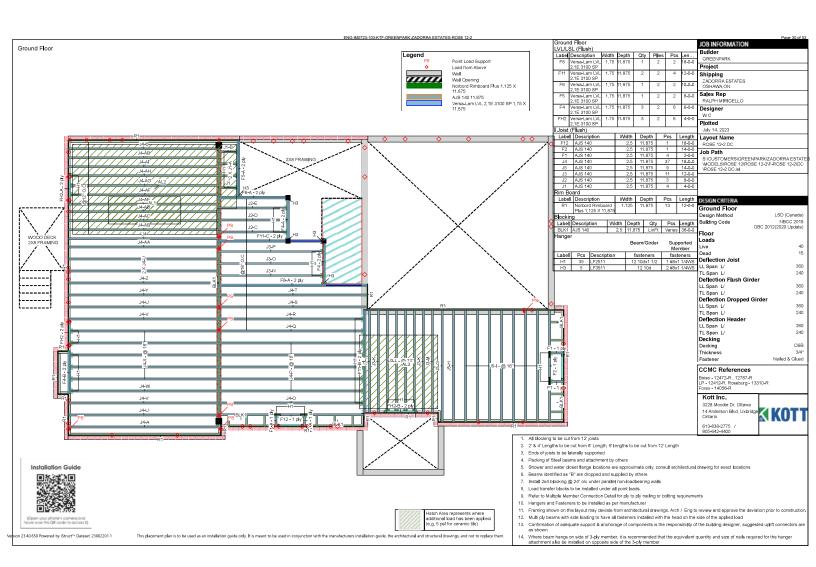


# MHP 23032



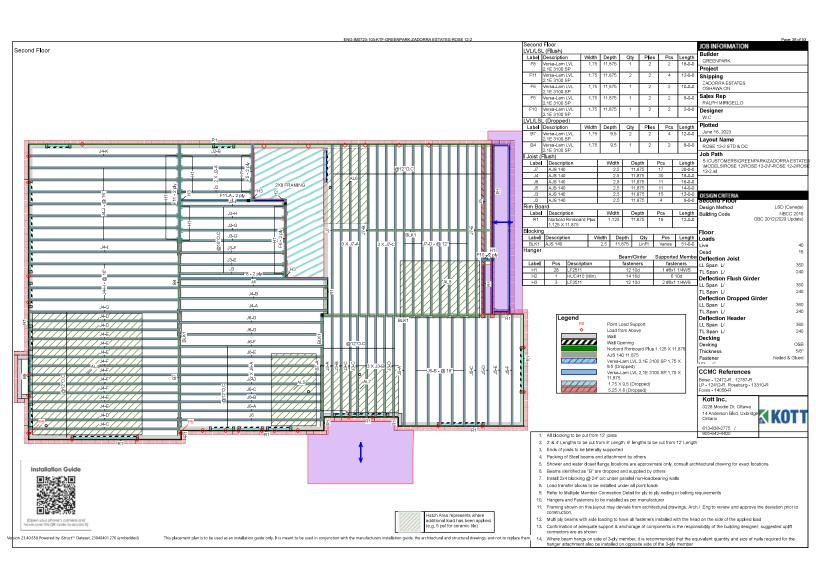


# MHP 23032





# MHP 23032



TRUE COPY is permit plans 100 83 2023 Address:

Client: **GREENPARK** Project:

ZADOR**RANA**S**FATER** 

Input by: Project #:

Date:

WC Name: ROSE 12-2 STD

7/14/2023

B75" - PASSED

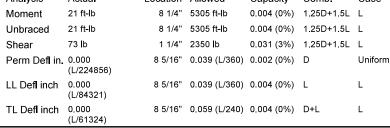
Level: Ground Floor



11 7/8"

2 ŠPF 0-2-6 1'4 15/16' 1'4 15/16"

Member Infor	mation			Unfa	actored Rea	actions UNF	ATTERNED I	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	44	16	0	0
Moisture Condition Deflection LL:	n: Dry 360	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	46	17	0	0
Deflection TL: Importance:	240 Normal - II	Load Sharing: Deck: Vibration:	No Not Checked Not Checked						
General Load Floor Live:	40 PSF	Vibration.	Not Officered	Bear	ings and F	actored Rea	ctions		
Dead:	15 PSF			Bea	aring Length	Dir. Cap	React D/L lb	Total Ld. Case	Ld. Comb.
				1 - Har	2.000" nger	Vert 5%	20 / 66	86 L	1.25D+1.5L
Analysis Resul	ts			2 -	SPF 2.375"	Vert 5%	21 / 69	90 L	1.25D+1.5L
1	tua <b>l</b> ft-lb	 Ilowed Capac 305 ft-lb 0.004 (	•		_				





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 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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0 0 0 to 1 4 15	170	Ton	15 DSE	40 DSE	0 DSE	0 DSE	

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

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

# Handling & Installation

- Handling & Installation

  1. Noist flanges must not be out or drilled

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

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

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

This design is valid until 4/17/2026

# Manufacturer Info

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

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

# Kott Inc.



Page 2 of 41

TRUE COPY isDesign 2023

Client: **GREENPARK** 

Project: ZADORINA STATES OSHAWA, ON Address:

Input by: Project #:

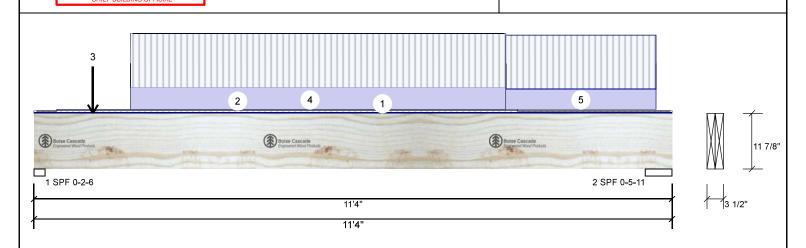
7/14/2023 WC

Name: ROSE 12-2 STD

1.750" X 11.875" 1E 3100 SP

2-Plv - PASSED

Level: Ground Floor



Member Inform	nation			Unfa	actored Rea	actions UNP	ATTERNED II	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	1703	802	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	1829	821	0	0
Deflection LL:	360		OBC 2012(2020 Update)						
Deflection TL:	240	Load Sharing:	No						
Importance:	Normal - II	Deck:	Not Checked						
General Load		Vibration:	Not Checked						
Floor Live:	40 PSF			Bear	rings and F	actored Rea	ctions		
Dead:	15 PSF			Bea	aring Length	Dir. Cap.	React D/L Ib	Total Ld. Case	Ld. Comb.
				1 - 3	SPF 2.375"	Vert 70%	1002 / 2555	3557 L	1.25D+1.5L
				2 -	SPF 5.699"	Vert 31%	1026 / 2743	3769 L	1.25D+1.5L

### Analysis Results

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 <b>l</b> 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.

<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 11-4-0	0-3-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-4-14 to 8-7-2		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
3	Point	1-0-9		Far Face	174 <b>l</b> b	421 <b> </b> b	0 lb	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

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

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

# Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

## Manufacturer Info

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

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





Page 3 of 41

TRUE COPY isDesign 2023

Client: **GREENPARK** 

Project: ZADORINA ESTATES Address: OSHAWA,ON

Input by:

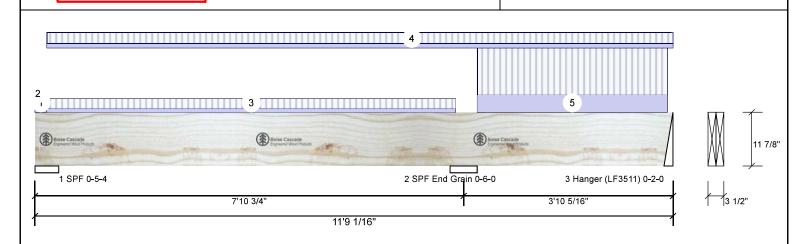
7/14/2023 WC

Name: ROSE 12-2 STD

1.750" X 11.875" 3100 SP

2-Plv - PASSED

Level: Ground Floor



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

Unfactored	Reactions	<b>UNPATTERNED I</b> 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	Ana <b>l</b> ysis	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 <b>l</b> 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 <b>I</b> 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)
Г				- V				

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.

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

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

Client: **GREENPARK** 

Project:

ZADORINA STATES OSHAWA,ON

Date: 7/14/2023 Input by: WC

Project #:

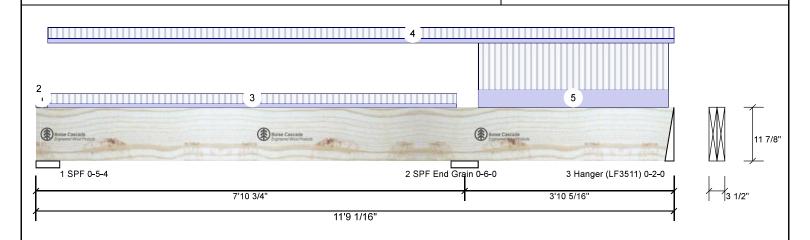
Name: ROSE 12-2 STD

3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor



IE	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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Manufacturer Info

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Kott Inc.





TRUE COPY is permit plans 100 83 2023

Client: **GREENPARK** Project:

Address:

ZADORINA STATES OSHAWA,ON

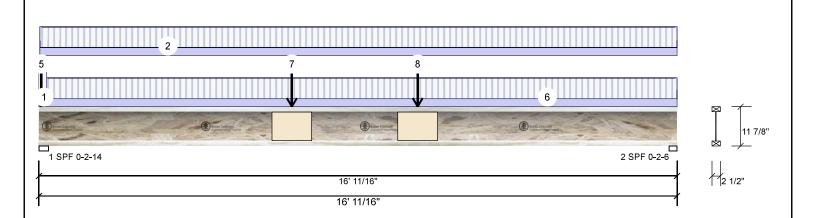
Project #

Date: 7/14/2023 Input by: WC

Name: ROSE 12-2 STD

875" - PASSED

Level: Ground Floor



mation			Unfa	actored Rea	ections	UNPA	ATTERNED I	b (Uplift)	
Girder	Application:	Floor (Residential)	Brg	Direction		_ive	Dead	Snow	Wind
1	Design Method:	LSD	1	Vertical		516	209	0	0
n: Dry	Building Code:	NBCC 2015	2	Vertical		451	169	0	0
360		, ,							
240	Load Sharing:	No							
Normal - II	Deck:	Not Checked							
	Vibration:	Not Checked							
40 PSF			Bear	ings and Fa	actored	l Reac	tions		
15 PSF			Bea	aring Length	Dir.	Cap.	React D/L Ib	Total Ld. Case	Ld. Comb.
			1 - 1	SPF 2.875"	Vert	58%	262 / 774	1036 L	1.25D+1.5L
			2 - 1	SPF 2.388"	Vert	53%	211 / 676	887 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)  Design Method: LSD  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	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 lb	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.



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.

4 Bottom flange	4 Bottom flange must be laterally braced at a maximum of 6 5/16 o.c.								
<b>I</b> D	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 lb	29 lb	0 <b>l</b> b	0 lb	J4
	Bearing Length	0-1-8							
4	Point	0-0-12		Тор	12 <b>l</b> b	30 lb	0 lb	0 <b>l</b> b	J6
	Bearing Length	0-1-8							
5	Point	0-0-12		Тор	14 <b>l</b> b	0 lb	0 <b> </b> b	0 <b> </b> b	Wall Self Weight
Continued on page	2								

# Notes

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

  1. Noist flanges must not be out or drilled

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

  3. Damaged Jioists must not be used

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

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

This design is valid until 4/17/2026

# Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

# Kott Inc.





Page 6 of 41

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Client: Project:

ZADORINA STATES OSHAWA,ON Address:

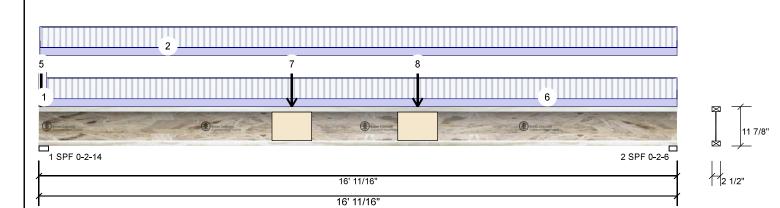
**GREENPARK** 

Date: 7/14/2023 Input by: WC

Name: ROSE 12-2 STD

Project #:

Level: Ground Floor



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

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

  3. Damaged Juoists must not be used

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

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.



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Client: **GREENPARK** 

Project: ZADORINA STATES OSHAWA,ON Address:

Input by:

7/14/2023 WC

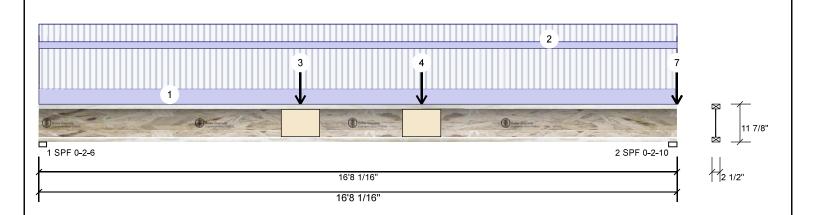
Name: ROSE 12-2 STD

Project #

Date:

875" - PASSED

Level: Ground Floor



Member Inform	nation			Unfactored Reactions UNPATTERNED Ib (Uplift)							
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind		
Plies:	1	Design Method:	LSD	1	Vertical	420	158	0	0		
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	481	197	0	0		
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bea	rings and Fa	actored Re	eactions				
Dead:	15 PSF			Bea	aring Length	Dir. Ca	p. React D/L <b>l</b> b	Total Ld. Case	Ld. Comb.		
				1 -	SPF 2.375"	Vert 4	9% 198 / 630	828 L	1.25D+1.5L		
Analysis Posylts				2 -	SPF 2.625"	Vert 5	3% 246 / 722	968 L	1.25D+1.5L		

### Analysis Results

Ana <b>l</b> ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3564 ft-lb	8'3 3/4"	5305 ft-lb	0.672 (67%)	1.25D+1.5L	L
Unbraced	3564 ft-lb	8'3 3/4"	5305 ft-lb	0.672 (67%)	1.25D+1.5L	L
Shear	818 <b>l</b> 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 <b>l</b> b	44 lb	0 <b>l</b> b	0 <b>l</b> b	F1
4	Point	9-11-15		Near Face	17 <b>l</b> b	44 lb	0 lb	0 <b>l</b> b	F1
5	Point	16-8-1		Тор	12 <b>l</b> b	29 lb	0 lb	0 <b>l</b> b	J4
	Bearing Length	0-1-8							
6	Point	16-8-1		Тор	12 <b>l</b> b	30 lb	0 lb	0 <b>l</b> b	J6
Continued on page	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.

Notes

- 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

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Client: **GREENPARK** Project:

Address:

ZADORINA STATES OSHAWA,ON

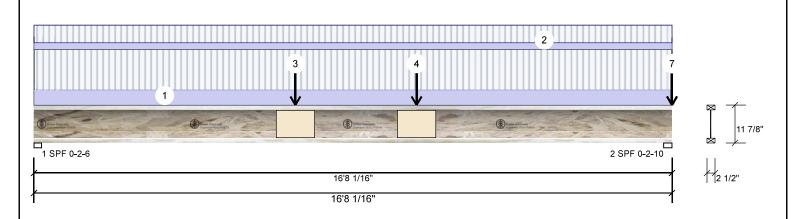
Date: 7/14/2023 Input by: WC

Name: ROSE 12-2 STD

Project #:

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 lb	0 <b>l</b> b	0 lb	Wall Self Weight
	Bearing Length	0-1-8							



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### Notes

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Dry service conditions, unless noted otherwise
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### Handling & Installation

- Handling & Installation

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   Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
   For flat roofs provide proper drainage to prevent ponding

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# Manufacturer Info

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

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

# Kott Inc.



TRUE COPY isDesign 2023

Client: **GREENPARK** Project:

Address:

ZADORINA STATES OSHAWA, ON

Input by: Project #

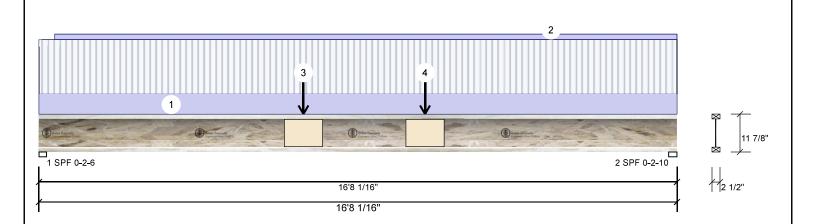
7/14/2023 WC

Name: ROSE 12-2 STD

Date:

875" - PASSED

Level: Ground Floor



Member Info	rmation			Unfactored Reactions UNPATTERNED lb (Uplift)							
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Li	ve	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	2	80	99		0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2015	2	Vertical	2	11	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 F	actored	Rea	ctions			
Dead:	15 PSF			Bea	ring Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 - 8	SPF 2.375"	Vert	26%	123 / 313	436	L	1.25D+1.5L
				2 - 5	SPF 2.625"	Vert	25%	126 / 316	442	L	1.25D+1.5L

### Analysis Results

Ana <b>l</b> 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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<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 16-8-1	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-4-15 to 16-8-1		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
3	Point	6-10-15		Far Face	21 lb	43 <b>l</b> b	0 lb	0 lb	F1
4	Point	10-1-0		Far Face	21 <b>l</b> b	43 lb	0 lb	0 <b>l</b> b	F1

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

### Handling & Installation

- Handling & Installation

  1. Noist flanges must not be out or drilled

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

  3. Damaged Jioists must not be used

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

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

This design is valid until 4/17/2026

# Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

# Kott Inc.





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Client: **GREENPARK** Project:

Address:

ZADOR**RYISFA EP** OSHAWA,ON

Input by: Project #:

Date:

7/14/2023 W C

Name: ROSE 12-2 STD

B75" - PASSED

Level: Ground Floor



1'1 7/8' 1'1 7/8' 11 7/8"

**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 Application: Floor (Residential)

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

Load Sharing:

Not Checked Deck:

Vibration: Not Checked

# **Unfactored Reactions UNPATTERNED lb (Uplift)**

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

# **Bearings and Factored Reactions**

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

### Analysis Results

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

**Design Notes** 

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

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I.MATIJEVIC 100528832

NCE OF JULY 14, 2023

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Tie le	0.0.0 += 1.1.11	170	Ton	15 DCE	40 DCE	0.000	0.000	

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# Handling & Installation

- Handling & Installation

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  3. Damaged Lioists must not be used

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

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

This design is valid until 4/17/2026

# Manufacturer Info

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

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

### Kott Inc.





TRUE COPY is permit plans 100 83 2023

Client: **GREENPARK** 

Project: ZADOR**RYAS FATER** OSHAWA,ON Address:

Input by: Project #:

Date:

7/14/2023 W C

Name: ROSE 12-2 STD

875" - PASSED

Level: Ground Floor



11 7/8"

2	Har	1 SPF 0-2-6 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 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	46	17	0	0
2	Vertical	44	17	0	0

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap. Re	eact D/L <b>I</b> 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

I.MATIJEVIC 100528832

NCE OF JULY 14, 2023

### Analysis Results

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

# **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.
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   Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
   For flat roofs provide proper drainage to prevent populing.

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

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

# Kott Inc.





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Client: **GREENPARK** Project:

Address:

ZADORRA/ESTATES

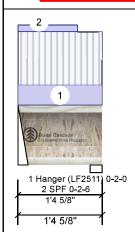
Project #

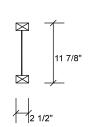
7/14/2023 Date: W C Input by:

Name: ROSE 12-2 STD

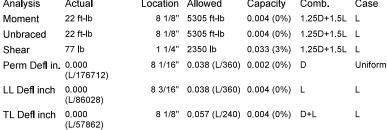
875" - PASSED

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. 22 ft-lb 8 1/8" 5305 ft-lb





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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: 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.

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

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# Handling & Installation

- Handling & Installation

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  chart, bridging details, multi-rily fastening details and
  handling/erection details

  3. Damaged IJoists must not be used
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Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

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

### Kott Inc.





TRUE COPY Project: isD PERMIT PLANS NOV 93 2023 Address:

Client: **GREENPARK** 

ZADORINAL STATES OSHAWA,ON

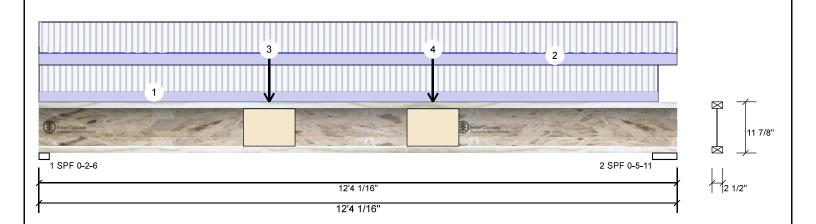
Project #

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

Name: ROSE 12-2 STD

- PASSED

Level: Ground Floor



### Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: Design Method: LSD Vertical 393 147 0 1 0 Moisture Condition: Dry Building Code: **NBCC 2015** 2 Vertical 400 149 0 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.375" Vert 46% 184 / 590 774 L 1.25D+1.5L 2 - SPF 5.699" Vert 41% 187 / 599 786 I 1.25D+1.5L

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2352 ft-lb	6' 3/8"	5305 ft-lb	0.443 (44%)	1.25D+1.5L	L
Unbraced	2352 ft-lb	6' 3/8"	5305 ft-lb	0.443 (44%)	1.25D+1.5L	L
Shear	758 <b>l</b> 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.

<b>I</b> 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 <b>l</b> b	44 lb	0 <b>l</b> b	0 <b>l</b> b	F1
4	Point	7-7-7		Near Face	16 <b>l</b> b	44 lb	0 lb	0 <b>l</b> b	F1

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

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

# Handling & Installation

- Handling & Installation

  1. Noist flanges must not be out or drilled

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

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

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

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.







Client: **GREENPARK** Project:

ZADORRAS Address: OSHAWA, ON

Project #:

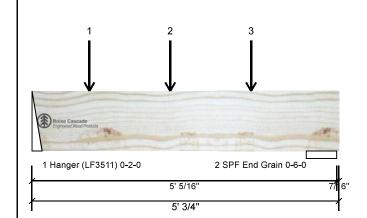
7/14/2023 W C Input by:

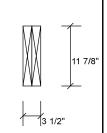
Name: ROSE 12-2 STD

1.750" X 11.875" 00 SP

2-Ply - PASSED

Level: Ground Floor





Type:	Girder
Plies:	2
Moisture Condition:	Dry

Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

Member Information

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

> Design Method: LSD

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

Load Sharing:

Not Checked Deck:

Vibration: Not Checked

# Analysis Results

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 <b>l</b> 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

### **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.

## **Unfactored Reactions UNPATTERNED lb (Uplift)**

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

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap.	React D/L <b>I</b> 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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### Notes

Notes

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

# Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

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

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

Project #:

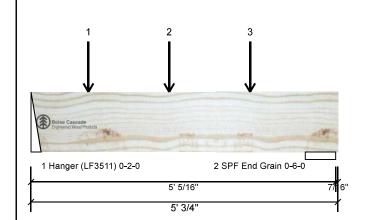
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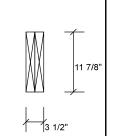
00 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





<b>I</b> D	Load Type	Location Ti	rib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-11-6		Far Face	104 lb	279 <b>l</b> b	0 <b>l</b> b	0 <b>l</b> b	J3
2	Point	2-3-6		Far Face	115 <b>l</b> b	306 lb	0 <b>l</b> b	0 <b>l</b> b	J3
3	Point	3-7-6		Far Face	107 <b>l</b> b	286 lb	0 <b>l</b> b	0 <b>l</b> b	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

Kott Inc.

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





TRUE COPY Address: F4-A

Client: **GREENPARK** Project:

ZADORINA SFATES OSHAWA, ON

Project #:

7/14/2023 W C Input by:

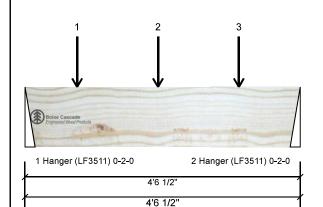
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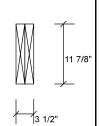
3<mark>100 SP</mark>

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





ı	Type:	Girder	Applica
ı	Plies:	2	Design
ı	Moisture Condition:	Dry	Buildin
ı	Deflection LL:	360	
ı	Deflection TL:	240	Load S

Importance: Normal - II General Load

Member Information

Floor Live: 40 PSF Dead: 15 PSF

### ation: Floor (Residential)

n Method: LSD ng Code:

**NBCC 2015** OBC 2012(2020 Update)

Sharing:

Not Checked Deck:

Vibration: Not Checked

# 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 <b>l</b> 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

### **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.

## **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	286	135	0	0
2	Vertical	274	131	0	0

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap. F	React D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 -	2.000"	Vert	8%	169 / 430	599	L	1.25D+1.5L
Hanger							
2 -	2.000"	Vert	8%	163 / 410	574	L	1.25D+1.5L
Hanger							



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

# Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info

Kott Inc.

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





Page 17 of 41



Client: **GREENPARK** Project:

ZADORINA STATES OSHAWA,ON

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

Name: ROSE 12-2 STD

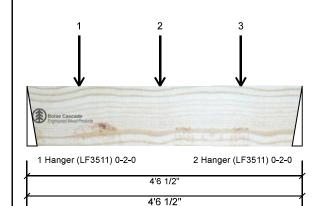
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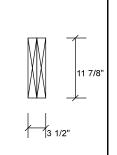
3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





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

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

Manufacturer Info

Kott Inc.

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





TRUE COPY Project: IT PLANS Address: F4-B

Client: **GREENPARK** 

> ZADORRA/ESFATES OSHAWA, ON

Input by: Project #:

7/14/2023 WС

Date:

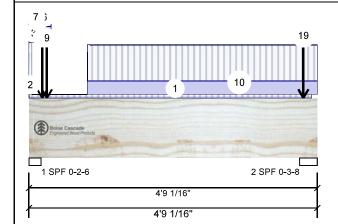
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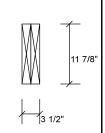
3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





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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	1809	1273	396	0
2	Vertical	1770	1220	348	0
l					

### Analysis Results

Analysis	Actua <b>l</b>	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 <b>l</b> 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

# Bearings and Factored Reactions

Dearings	bearings and ractored reactions											
Bearing	Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.					
1 - SPF	2.375"	Vert	92%	1591 / 3110	4701	L	1.25D+1.5L +S					
2 - SPF	3.500"	Vert	60%	1525 / 3003	4527	L	1.25D+1.5L +S					

## **Design Notes**

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



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### Notes

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

# Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

# Manufacturer Info

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

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





Client: **GREENPARK** 

ZADORI<mark>RA/ESFA</mark> EEO OSHAWA,ON

1.750" X 11.875"

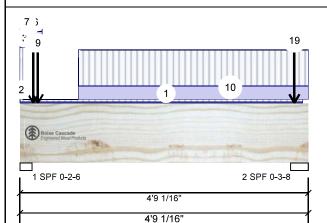
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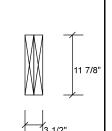
7/14/2023  $W\, C$ 

Name: ROSE 12-2 STD

Project #: 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 <b>l</b> b	766 <b>l</b> b	365 lb	0 lb	B9 Header Column
	Bearing Length	0-5-8							
9	Point	0-3-9		Near Face	237 lb	501 lb	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 lb	50 <b>l</b> b	0 <b>l</b> b	0 lb	J4
	Bearing Length	0-5-8							
12	Point	4-6-5		Тор	19 <b> </b> b	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
13	Point	4-6-5		Тор	706 lb	697 <b>l</b> b	340 lb	0 lb	B9
	Bearing Length	0-5-8							
14	Point	4-6-5		Тор	26 lb	57 <b>l</b> b	0 lb	0 lb	J4
	Bearing Length	0-5-8							
17	Point	4-6-5		Тор	18 <b> </b> b	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
18	Point	4-6-5		Тор	29 lb	62 <b>l</b> b	0 lb	0 lb	J4
	Bearing Length	0-5-8							
19	Point	4-6-5		Тор	19 <b>l</b> b	0 <b>l</b> b	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							OFESSION
	Self Weight				12 PLF				PROFESSIONAL CA

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.



JULY 14, 2023

### Notes

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

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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

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

# Kott Inc.

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





TRUE COPY F5-A

Client: **GREENPARK** 

Project: ZADORRA ESTATES Address: OSHAWA, ON

Input by:

7/14/2023 WС

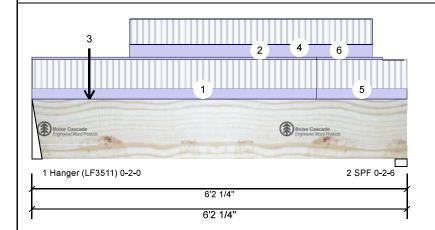
Date:

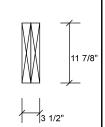
Name: ROSE 12-2 STD

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

Project #: 2-Ply - PASSED

Level: Ground Floor





# Member Information

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

Floor Live: 40 PSF 15 PSF Dead:

### Application: Floor (Residential)

Design Method: Building Code:

**NBCC 2015** OBC 2012(2020 Update)

LSD

Load Sharing: Deck: Not Checked

Vibration: Not Checked

# **Unfactored Reactions UNPATTERNED lb (Uplift)**

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

# **Bearings and Factored Reactions**

	Bearing	Length	Dir.	Cap.	React D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
	1 - Hanger	2.000"	Vert	7%	187 / 358	545	L	1.25D+1.5L
4	Hanger							
	2 - SPF	2.375"	Vert	10%	183 / 351	534	L	1.25D+1.5L

### Analysis Results

Analysis	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 <b>l</b> 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.



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

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

This design is valid until 4/17/2026

# 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.





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

Client: **GREENPARK** Project:

ZADORINA STATES OSHAWA,ON

Input by: Project #:

7/14/2023  $W\, C$ 

Name: ROSE 12-2 STD

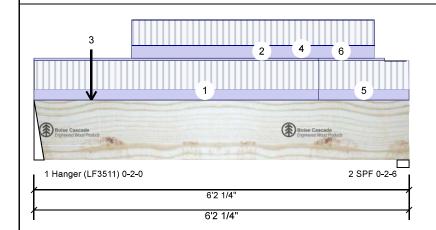
3100 SP

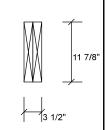
1.750" X 11.875"

2-Ply - PASSED

Date:

Level: Ground Floor





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



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### 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: **GREENPARK** 

Project: ZADORRA ESFATES Address: OSHAWA, ON

Input by: Project #: 7/14/2023 WС

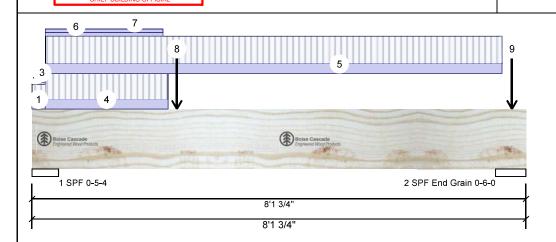
Name: ROSE 12-2 STD

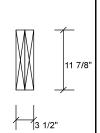
3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor





M	em	ber	Into	rma	tion
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Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF

15 PSF

Application: Floor (Residential) Design Method: LSD

Building Code: **NBCC 2015** 

OBC 2012(2020 Update)

Load Sharing: Deck:

Vibration:

Not Checked Not Checked

## **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	304	217	0	0
2	Vertical	802	490	0	0

# **Bearings and Factored Reactions**

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

ROFESSION

I.MATUEVIC 100528832

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.

### 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 <b>l</b> b	0.045 (5%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/28699)	3'9 1/2"	0.244 (L/360)	0.013 (1%)	D	Uniform
LL Defl inch	0.004 (L/20616)	3'9"	0.244 (L/360)	0.017 (2%)	L	L
TL Defl inch	0.007 (L/11998)	3'9 1/4"	0.367 (L/240)	0.020 (2%)	D+L	L

### **Design Notes**

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

6 Bottom must be laterally braced at a maximum of 5'6 1/16" o.c.  7 Lateral slenderness ratio based on full section width.									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-2-10	0-4-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 0-2-10		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 0-2-10		Тор	1 PLF	0 PLF	0 PLF	0 PLF	

Top

Continued on page 2...

### Notes

Tie-In

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

Handling & Installation

0-2-10 to 2-2-15 0-6-9

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

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

6. For flat roofs provide proper drainage to prevent ponding

40 PSF

15 PSF

Manufacturer Info

0 PSF

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0 PSF

Kott Inc.

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



