Client: **GREENPARK** MHP 23031 Project: Address: OSHAWA,ON

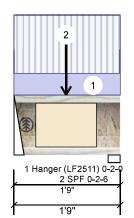
7/7/2023 Input by: WC

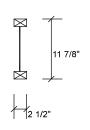
Job Name: ROSE 10-3 STD & DC

Project #:

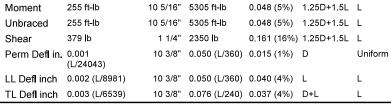
41.875" - PASSED

Level: Ground Floor





Member Info	Member Information							Unfactored Reactions UNPATTERNED lb (Uplift)						
Туре:	Girder		Applica	tion:	Floor (Resident	tial)	Brg [Direction		Live	Dead		Snow	Wind
Plies:	1		Design	Method:	LSD		1 1	/ertical		199	74		0	0
Moisture Condit	ion: Dry 360		Building		NBCC 2015 OBC 2012(202	0 Update)	2 \	/ertical		200	75		0	0
Deflection TL:	240		Load St	J	No									
Importance:	Normal - II		Deck:		Not Checked									
General Load			Vibratio	n:	Not Checked									
Floor Live:	40 PSF						Bearir	ngs and F	actore	d Read	ctions			
Dead:	15 PSF						Beari	ng Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
							1 - Hang	2.000" er	Vert	24%	93 / 298	391	L	1.25D+1.5L
Analysis Resi	ults						2 - SF	PF 2.375"	Vert	23%	94 / 300	394	L	1.25D+1.5L
Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case								
Moment	255 ft-lb	10 5/16"	5305 ft-lb	0.048 (5%) 1.25D+1.5L	L								
							1							





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
- 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 1-9-0	1-5-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0.10.5		Near Face	112 lb	300 lb	0 lb	0.lh	15

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

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

Manufacturer Info

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

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

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario

613-838-2775 / 905-642-4400





Client: Project: Address:

GREENPARK ZABORRA ESTATES OSHAWA,ON

7/7/2023 Input by: W C

Job Name: ROSE 10-3 STD & DC

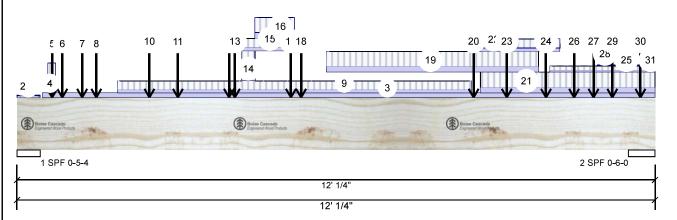
Project #:

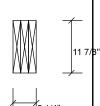
F18 Versa Lam LVL 2.1E 3100 SP

1.750" X 11.875"

3-Ply - PASSED

Level: Ground Floor





Member Information

Type:	Girder
Plies:	3
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

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

Load Sharing: Not Checked Deck: Vibration: Not Checked

Building Code:

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	5281	2634	0	0
2	Vertical	5549	2776	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	66%	3293 / 7921	11214	L	1.25D+1.5L
2 - SPF	6.024"	Vert	61%	3470 / 8323	11793	L	1.25D+1.5L

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	29897 ft-lb	5'4 3/16"	55212 ft-lb	0.541 (54%)	1.25D+1.5L	L
Unbraced	29897 ft-lb	5'4 3/16"	55212 ft-lb	0.541 (54%)	1.25D+1.5L	L
Shear	9937 lb	1'5 1/8"	19825 lb	0.501 (50%)	1.25D+1.5L	L
Perm Defl in	0.104 (L/1290)	5'11 5/16"	0.373 (L/360)	0.279 (28%)	D	Uniform
LL Defl inch	0.207 (L/649)	5'11 1/4"	0.373 (L/360)	0.555 (55%)	L	L
TL Defl inch	0.311 (L/432)	5'11 1/4"	0.560 (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 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 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

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

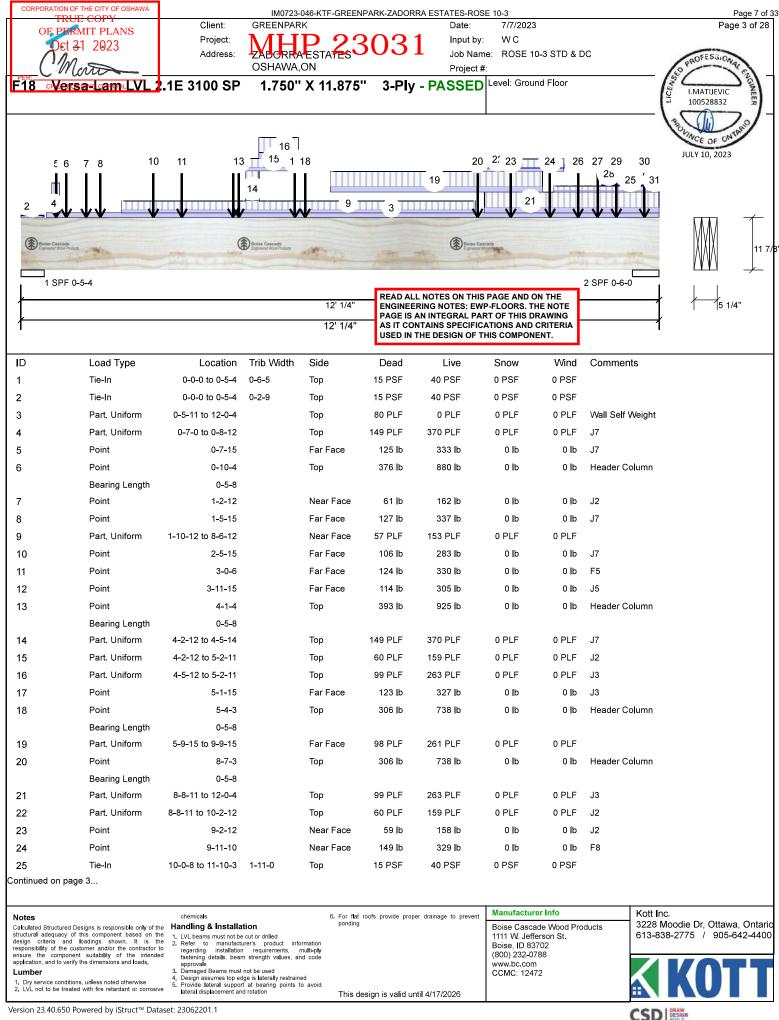
Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Manufacturer Info

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







Address:

MHP 230 OSHAWA,ON

7/7/2023 Input by: WC

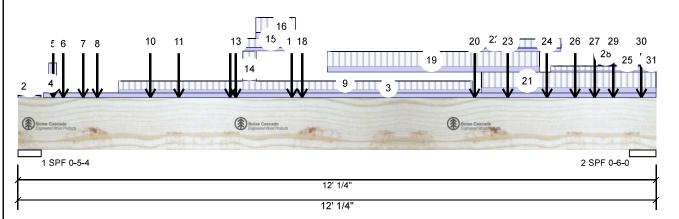
Job Name: ROSE 10-3 STD & DC

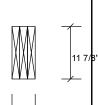
Project #:

F18 Versa Lam LVL 2.1E 3100 SP

1.750" X 11.875"

3-Ply - PASSED Level: Ground Floor





Continued fro	m page 2								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
26	Point	10-5-15		Far Face	127 l b	338 lb	0 lb	0 l b	J3
27	Point	10-10-5		Тор	185 l b	411 l b	0 lb	0 lb	F12
	Bearing Length	0-5-8							
28	Tapered Start	10-11-3		Тор	4 PLF	11 PLF	0 PLF	0 PLF	
	End	12-0-4			4 PLF	11 PLF	0 PLF	0 PLF	
29	Point	11-2-9		Near Face	33 lb	89 l b	0 lb	0 lb	J1
30	Point	11-8-15		Far Face	111 l b	295 l b	0 lb	0 lb	J3
31	Tie-In	11-10-3 to 12-0-4	1-11-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				18 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. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

Kott Inc.

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





MDINCEFFICAL N

Client: **GREENPARK** Project:

11.875" - PASSED

MHP 23031 Address: OSHAWA,ON

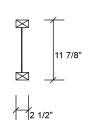
7/7/2023 Input by: WC

Job Name: ROSE 10-3 STD & DC

Project #

Level: Ground Floor

2 1 Hanger (LF2511) 0-2-6 2 SPF 0-2-6



Member Information Type:

Floor Live:

Dead:

1'9' 1'9"

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

40 PSF 15 PSF

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

> Load Sharing: Not Checked Deck:

> Vibration: Not Checked

OBC 2012(2020 Update)

Unfactored Reactions UNPATTERNED lb (Uplift)

		Dead	Snow	Wind
ertical	70	26	0	0
ertical	72	27	0	0
	ertical ertical			

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

Bearing	Length	Dir.	Cap. Rea	act D/L I b	Total	Ld. Case	Ld. Comb.
1 -	2.000"	Vert	9%	33 / 104	137	L	1.25D+1.5L
Hanger							
2 - SPF	2.375"	Vert	8%	34 / 108	142	L	1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	46 ft-lb	10 5/16"	5305 ft-lb	0.009 (1%)	1.25D+1.5L	L
Unbraced	46 ft-lb	10 5/16"	5305 ft-lb	0.009 (1%)	1.25D+1.5L	L
Shear	120 l b	1 1/4"	2350 lb	0.051 (5%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/131821)	10 3/8"	0.050 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.000 (L/49433)	10 3/8"	0.050 (L/360)	0.007 (1%)	L	L
TL Defl inch	0.001 (L/35951)	10 3/8"	0.076 (L/240)	0.007 (1%)	D+L	L

Design Notes

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

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•	JULY 10, 2023	

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-9-0	0-7-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-9-0	1-5-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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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 too 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.





ADING FILAM N

Client: **GREENPARK** Project:

11.875" - PASSED

Application:

Design Method:

Building Code:

Address:

MHP23031 OSHAWA,ON

7/7/2023 Input by: WC

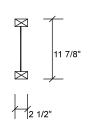
Job Name: ROSE 10-3 STD & DC

Project #:

Level: Ground Floor

1

1 Hanger (LF2511) 0-2-0 2 SPF 0-2-6 1'3 5/8' 1'3 5/8'



1.25D+1.5L

Member Information

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

General Load Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift)

3rg	Direction	Live	Dead	Snow	Wind
1	Vertical	36	13	0	0
2	Vertical	37	14	0	0

Load Sharing: Not Checked Deck: Vibration: Not Checked

LSD

Floor (Residential)

OBC 2012(2020 Update)

NBCC 2015

Bearings and Factored Reactions

Vert

4%

2 - SPF 2.375"

Bearing Length	Dir.	Cap. Re	act D/L I b	Total	Ld. Case	Ld. Comb.
1 - 2.000"	Vert	4%	17 / 53	70	L	1.25D+1.5L
Hanger						

18 / 56

74 L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	16 ft-lb	7 5/8"	5305 ft-lb	0.003 (0%)	1.25D+1.5L	L
Unbraced	16 ft-lb	7 5/8"	5305 ft-lb	0.003 (0%)	1.25D+1.5L	L
Shear	59 lb	1 1/4"	2350 lb	0.025 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/282779)	7 11/16"	0.035 (L/360)	0.001 (0%)	D	Uniform
LL Defl inch	0.000 (L/106042)	7 11/16"	0.035 (L/360)	0.003 (0%)	L	L
TL Defl inch	0.000 (L/77121)	7 11/16"	0.053 (L/240)	0.003 (0%)	D+L	L

I MATHEVIC 100528832 VCE OF OF JULY 10, 2023

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Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 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
4	Tio In	0 0 0 to 1 3 10	1 / 12	Ton	15 DSE	40 DSE	U DGE	0 DSE	

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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. Joist flanges must not be cut or drilled

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

 3. Damaged Juoists must not be used

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

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

This design is valid until 4/17/2026

Manufacturer Info

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

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

Kott Inc.



Address:

MHP 23031 OSHAWA,ON

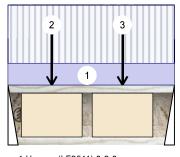
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Job Name: ROSE 10-3 STD & DC

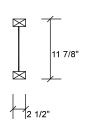
Project #:

11.875" - PASSED





1 Hanger (LF2511) 0-2-0 2 Hanger (LF2511) 0-2-0 2'8 15/16' 2'8 15/16"



Wind

Snow

NЛ	aml	hor	Inform	nation
IVI	emi	oer I	ıntorr	nation

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

Unfactored Reactions UNPATTERNED Ib (Uplift) Live

1	Vertical	292	109	0	0
2	Vertical	274	102	0	0

Dead

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	384 ft-lb	1'10 5/8"	5305 ft-lb	0.072 (7%)	1.25D+1.5L	L
Unbraced	384 ft-lb	1'10 5/8"	5305 ft-lb	0.072 (7%)	1.25D+1.5L	L
Shear	569 lb	1 1/4"	2350 lb	0.242 (24%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/22944)	1'6 9/16"	0.085 (L/360)	0.016 (2%)	D	Uniform
LL Defl inch	0.004 (L/8573)	1'6 9/16"	0.085 (L/360)	0.042 (4%)	L	L
TL Defl inch	0.005 (L/6241)	1'6 9/16"	0.127 (L/240)	0.038 (4%)	D+L	L

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	384 ft-lb	1'10 5/8"	5305 ft-lb	0.072 (7%)	1.25D+1.5L	L
Unbraced	384 ft-lb	1'10 5/8"	5305 ft-lb	0.072 (7%)	1.25D+1.5L	L
Shear	569 lb	1 1/4"	2350 lb	0.242 (24%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/22944)	1'6 9/16"	0.085 (L/360)	0.016 (2%)	D	Uniform
LL Defl inch	0.004 (L/8573)	1'6 9/16"	0.085 (L/360)	0.042 (4%)	L	L
TL Defl inch	0.005 (L/6241)	1'6 9/16"	0.127 (L/240)	0.038 (4%)	D+L	L

Bearings and Factored Reactions

Brg

Direction

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	36%	137 / 438	575	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	34%	128 / 411	539	L	1.25D+1.5L

Design Notes

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



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0 lb

	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Tie-In	0-0-0 to 2-8-15	0-9-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Point	0-8-11		Near Face	87 l b	233 lb	0 lb	0 l b	J4

Near Face

3

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Point

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

1-10-11

249 lb

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Manufacturer Info

Kott Inc.





Client: Project: Address:

GREENPARK MHP 23031 OSHAWA,ON

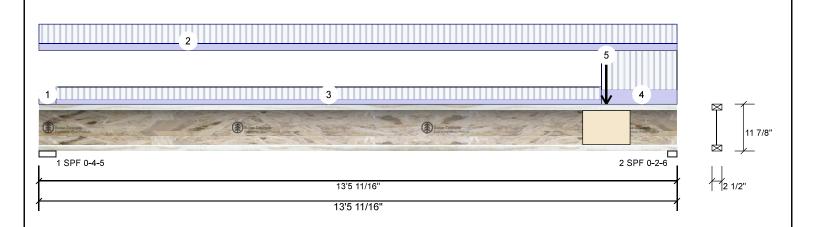
Date: 7/7/2023 Input by: WC

Job Name: ROSE 10-3 STD & DC

Project #

11.875" - PASSED

Level: Ground Floor



Member Infor	mation			Unfactored Reactions UNPATTERNED lb (Uplift)								
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	.ive	Dead	5	Snow	Wind	
Plies:	1	Design Method:	LSD	1	Vertical		360	135		0	0	
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical		628	235		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 F	actored	Reac	tions				
Dead:	15 PSF			Be	aring Length	Dir.	Сар.	React D/L Ib	Total L	Ld. Case	Ld. Comb.	
				1 -	SPF 4.316"	Vert	37%	169 / 539	708 L	L	1.25D+1.5L	
A I '- D I				2 -	SPF 2.375"	Vert	73%	293 / 942	1235 L	L	1.25D+1.5L	

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	2451 ft-lb	7'5 11/16"	5305 ft-lb	0.462 (46%)	1.25D+1.5L	L
Unbraced	2451 ft-lb	7'5 11/16"	5305 ft-lb	0.462 (46%)	1.25D+1.5L	L
Shear	1211 lb	13'4 1/16"	2350 lb	0.515 (52%)	1.25D+1.5L	L
Perm Defl in.	0.054 (L/2913)	7' 7/16"	0.435 (L/360)	0.124 (12%)	D	Uniform
LL Defl inch	0.143 (L/1091)	7' 1/2"	0.435 (L/360)	0.330 (33%)	L	L
TL Defl inch	0.197 (L/794)	7' 1/2"	0.652 (L/240)	0.302 (30%)	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 11'11 13/16" 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.

ı	4 Bottom hange must be laterally braced at a maximum of 11 11 13/16 o.c.										
	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
	1	Tie-In	0-0-0 to 0-4-5	0-4-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
	2	Tie-In	0-0-0 to 13-5-11	0-8-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
	3	Tie-In	0-4-5 to 11-10-9	0-5-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
	4	Tie-In	11-10-9 to 13-5-11	1-5-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
	5	Point	11-11-13		Far Face	102 lb	274 l b	0 lb	0 lb	F2	

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

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

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

 3. Damaged Jioists must not be used

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

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

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products

1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





ACHIEF BUADING OFFICIAL O

Client: Project: Address:

11.875" - PASSED

GREENPARK MHP 23031 OSHAWA,ON

13'4 1/8'

Date: 7/7/2023 Input by: WC

Job Name: ROSE 10-3 STD & DC

Project #:

Level: Ground Floor

3 1 SPF 0-2-12 2 SPF 0-2-6 13'4 1/8'

Member Infor	mation			Unfactored Reactions UNPATTERNED lb (Uplift)									
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	e De	ad	Snow	Wind			
Plies:	1	Design Method:	LSD	1	Vertical	27	4 1	03	0	0			
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	57) 2	13	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 P	eactions						
Dead:	15 PSF			Be	aring Length	Dir. C	ap. React D/L	lb Total	Ld. Case	Ld. Comb.			
				1 -	SPF 2.750"	Vert :	31% 128 / 4	12 540	L	1.25D+1.5L			
Analysis Posul				2 -	SPF 2.375"	Vert 6	67% 267 / 8	55 1122	L	1.25D+1.5L			

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	2000 ft-lb	7'7 5/16"	5305 ft-lb	0.377 (38%)	1.25D+1.5L	L
Unbraced	2000 ft-lb	7'7 5/16"	5305 ft-lb	0.377 (38%)	1.25D+1.5L	L
Shear	1101 lb	13'2 1/2"	2350 lb	0.468 (47%)	1.25D+1.5L	L
Perm Defl in.	0.044 (L/3562)	6'11 11/16"	0.435 (L/360)	0.101 (10%)	D	Uniform
LL Defl inch	0.117 (L/1335)	6'11 11/16"	0.435 (L/360)	0.270 (27%)	L	L
TL Defl inch	0.161 (L/971)	6'11 11/16"	0.652 (L/240)	0.247 (25%)	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 11'10 1/4" o.c.



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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 11-9-0	0-4-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-2-15 to 13-4-2	0-6-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	11-9-0 to 13-4-2	1-5-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	11-10-4		Near Face	109 l b	292 l b	0 lb	0 lb	F2

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

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

Handling & Installation

- Handling & Installation

 1. Julist flanges must not be 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

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





Client: Project: Address:

GREENPARK MHP 23031 OSHAWA,ON

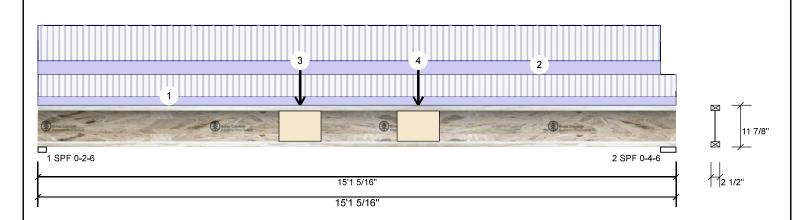
Date: 7/7/2023 Input by: WC

Job Name: ROSE 10-3 STD & DC

Project #

11.875" - PASSED

Level: Ground Floor



Member Infor	mation	unfactored Reactions UNPATTERNED lb (Uplift)									
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Li	ve	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	3	90	146		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	3	88	145		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bear	rings and Fa	actored	Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	46%	182 / 585	767	L	1.25D+1.5L
				2 -	SPF 4.375"	Vert	40%	181 / 583	764	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2929 ft-lb	7'5 1/2"	5305 ft-lb	0.552 (55%)	1.25D+1.5L	L
Unbraced	2929 ft-lb	7'5 1/2"	5305 ft-lb	0.552 (55%)	1.25D+1.5L	L
Shear	754 lb	1 5/8"	2350 lb	0.321 (32%)	1.25D+1.5L	L
Perm Defl in.	0.077 (L/2295)	7'5 11/16"	0.489 (L/360)	0.157 (16%)	D	Uniform
LL Defl inch	0.206 (L/856)	7'5 11/16"	0.489 (L/360)	0.420 (42%)	L	L
TL Defl inch	0.282 (L/624)	7'5 11/16"	0.733 (L/240)	0.385 (38%)	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 6'2 7/16" 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.

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 15-1-5	0-5-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 14-8-14	0-8-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	6-2-7		Near Face	13 l b	36 lb	0 lb	0 lb	F1
4	Point	9-0-1		Near Face	13 lb	36 lb	0 lb	0 lb	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 cut or drilled

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

 3. Damaged Juoists must not be used

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

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.





Client: **GREENPARK** MHP 23031 Project: Address: OSHAWA,ON

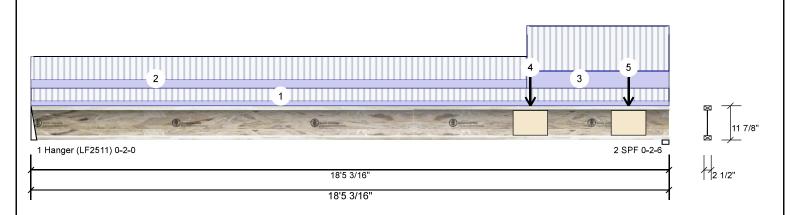
Date: 7/7/2023 Input by: WC

Job Name: ROSE 10-3 STD & DC

Project #

41.875" - PASSED

Level: Ground Floor



Member Infor	mation			Unfactored Reactions UNPATTERNED lb (Uplift)								
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead		Snow	Wind	
Plies:	1	Design Method:	LSD	1	Vertical		330	124		0	0	
Moisture Condition	n: Dry	Building Code:	NBCC 2015	1 2	Vertical		569	212		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 F	actored	d Read	ctions				
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.	
				1 - Hai	2.000" nger	Vert	40%	155 / 495	650	L	1.25D+1.5L	
Analysis Resul	ts			2 -	SPF 2.375"	Vert	66%	266 / 853	1119	L	1.25D+1.5L	
Analysis Ac	tual Loca	ation Allowed Canaci	ity Comb Case									

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3513 ft-lb	11' 1/8"	5305 ft-lb	0.662 (66%)	1.25D+1.5L	L
Unbraced	3513 ft-lb	11' 1/8"	5305 ft-lb	0.662 (66%)	1.25D+1.5L	L
Shear	1106 lb	18'3 9/16"	2350 lb	0.470 (47%)	1.25D+1.5L	L
Perm Defl in.	0.139 (L/1569)	9'7 1/2"	0.606 (L/360)	0.229 (23%)	D	Uniform
LL Defl inch	0.372 (L/587)	9'7 1/2"	0.606 (L/360)	0.613 (61%)	L	L
TL Defl inch	0.511 (L/427)	9'7 1/2"	0.910 (L/240)	0.562 (56%)	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: 5 1/4"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.

6 Bottom flange must be laterally braced at a maximum of 14'5 1/8" 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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 18-5-3	0-3-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 14-3-14	0-5-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	14-3-14 to 18-5-3	0-11-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	14-5-2		Near Face	74 l b	199 lb	0 lb	0 l b	F1
5	Point	17-3-3		Near Face	26 lb	70 lb	0 lb	0 l b	F1

Notes

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

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

- Handling & Installation
- Handling & Installation

 1. Noist flanges must not be cut or drilled

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

 3. Damaged Juoists must not be used

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

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

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

www.bc.com CCMC: 12787

Manufacturer Info

Kott Inc.

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





Client:

GREENPARK Project: Address OSHAWA,ON

7/7/2023 Input by: W C

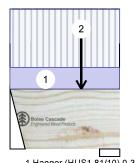
Job Name: ROSE 10-3 STD & DC

Project #:

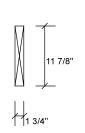
Versawlam LVL 2.1E 3100 SP

1.750" X 11.875" - PASSED

Level: Ground Floor



1 Hanger (HUS1.81/10) 0-3-0 2 SPF 0-4-0 1'9 3/4' 1'9 3/4"



0

0

Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Application: Floor (Residential) Type: Brg Direction Live Dead Snow Wind Plies: Design Method: LSD Vertical 90 39 0 1 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertica 138 57 n 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. 3.000" Vert 3% 49 / 135 184 L 1.25D+1.5L Hanger Analysis Results 2 - SPF 4.000" Vert 6% 71 / 206 278 L 1.25D+1.5L

Location Allowed Analysis Actual Capacity Comb. Case Moment 75 ft-lb 1'1 15/16" 17696 ft-lb 0.004 (0%) 1.25D+1.5L L Unbraced 75 ft-lb 1'1 15/16" 17696 ft-lb 0.004 (0%) 1.25D+1.5L L 0.011 (1%) 1.25D+1.5L L 76 lb 5.7/8" 6608 lb Shear Perm Defl in 0.000 11 1/2" 0.045 (L/360) 0.000 (0%) D Uniform (L/959176) 0.000 11 11/16" 0.045 (L/360) 0.001 (0%) L LL Defl inch (L/393508) TL Defl inch 0.000 11 5/8" 0.068 (L/240) 0.001 (0%) D+L



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: DF, Thickness: 1 3/4"

4 Girders are designed to be supported on the bottom edge only.

5 Top must be continuously laterally braced.

(L/279052)

6 Bottom must have sheathing attached or be continuously braced.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-9-12	1-11-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	1-2-2		Far Face	33 lb	89 lb	0 l b	0 l b	J1
	Self Weight				6 PLF				

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

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

Handling & Installation

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

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: Project: Address:

GREENPARK OSHAWA,ON

7/7/2023 Input by: W C

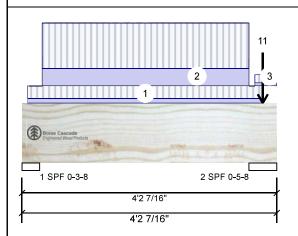
Job Name: ROSE 10-3 STD & DC

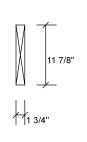
Project #:

F7-A ⊶Versa⊶⊾am LVL 2.1E 3100 SP

1.750" X 11.875" - PASSED

Level: Ground Floor





1.25D+1.5L

Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Floor (Residential) Type: Brg Direction Live Dead Snow Wind Plies: Design Method: LSD Vertical 186 83 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertica 267 136 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. 1 - SPF 3.500" Vert 10% 103 / 279 382 L 1.25D+1.5L

2 - SPF 5.500"

Vert

10%

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	349 ft-lb	2' 1/4"	17696 ft-lb	0.020 (2%)	1.25D+1.5L	L
Unbraced	349 ft-lb	2' 1/4"	17696 ft-lb	0.020 (2%)	1.25D+1.5L	L
Shear	169 lb	1'3 3/8"	6608 lb	0.026 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/115075)	2' 1/4"	0.119 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/50058)	2' 1/4"	0.119 (L/360)	0.007 (1%)	L	L
TL Defl inch	0.001 (L/34884)	2' 1/4"	0.179 (L/240)	0.007 (1%)	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 Top must be continuously laterally braced.
- 5 Bottom must be laterally braced at bearings.



170 / 401

571 L

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

IE	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-1-2 to 3-11-11	0-6-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-4-0 to 3-8-15		Тор	32 PLF	84 PLF	0 PLF	0 PLF	
3	Tie-In	3-10-2 to 4-2-7	0-4-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	3-11-11		Тор	1 lb	0 lb	0 lb	0 l b	Rim Board Self Weight

Continued on page 2...

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

Dry service conditions, unless noted otherwise
 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-ray 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

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





MHP230 OSHAWA,ON

7/7/2023 Input by: WC

Job Name: ROSE 10-3 STD & DC

Project #:

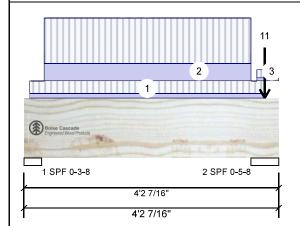
F7-A CHEVersa-Lam LV _ 2.1E 3100 SP

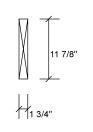
Oct 31 2023

Address:

1.750" X 11.875" - PASSED

Level: Ground Floor





Continued	from page 1								
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	Bearing Length	0-5-8							
5	Point	3-11-11		Тор	15 b	40 l b	0 l b	0 l b	J3
	Bearing Length	0-5-8							
7	Point	3-11-11		Тор	12 l b	0 l b	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
9	Point	3-11-11		Тор	12 l b	32 l b	0 l b	0 l b	J3
	Bearing Length	0-5-8							
11	Point	3-11-11		Тор	9 l b	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
	Self Weight				6 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. IVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For **fl**at 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: Project: Address:

GREENPARK OSHAWA,ON

7/7/2023 Input by: W C

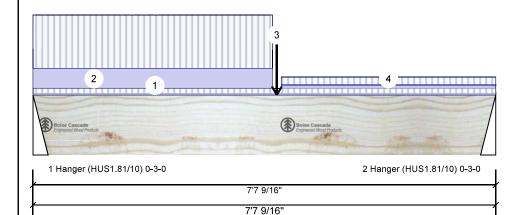
Job Name: ROSE 10-3 STD & DC

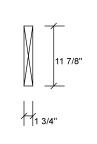
Project #:

Versa⊯lam LVL 2.1E 3100 SP

1.750" X 11.875" - PASSED

Level: Ground Floor





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

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	594	248	0	0
2	Vertical	329	149	0	0

Unfactored Reactions UNPATTERNED lb (Uplift)

Bearings and Factored Reactions Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 310 / 891 1 -3.000" Vert 21% 1201 L 1.25D+1.5L Hanger 2 -3.000" Vert 12% 186 / 493 679 L 1.25D+1.5L Hanger

Analysis Results

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1832 ft-lb	3'5"	17696 ft-lb	0.104 (10%)	1.25D+1.5L	L
Unbraced	1832 ft-lb	3'5"	17696 ft-lb	0.104 (10%)	1.25D+1.5L	L
Shear	772 l b	1'2 7/8"	6608 l b	0.117 (12%)	1.25D+1.5L	L
Perm Defl in.	0.007 (L/12419)	3'8 1/4"	0.242 (L/360)	0.029 (3%)	D	Uniform
LL Defl inch	0.016 (L/5328)	3'8 1/16"	0.242 (L/360)	0.068 (7%)	L	L
TL Defl inch	0.023 (L/3729)	3'8 1/8"	0.363 (L/240)	0.064 (6%)	D+L	L

Design Notes

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Right Header: DF, Thickness: 5 1/4"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at a maximum of 4' 1/4" o.c.



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

, Bottom mao	n be laterally bracea c	tt a maximum or 1 m							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 7-7-9	0-4-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 3-11-6		Тор	60 PLF	160 PLF	0 PLF	0 PLF	
3	Point	4-0-4		Near Face	39 l b	90 lb	0 lb	0 lb	F6
4	Tie-In	4-1-2 to 7-7-9	0-7-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				
	ID 1 2 3	ID Load Type 1 Tie-In 2 Part. Uniform 3 Point 4 Tie-In	ID Load Type Location 1 Tie-In 0-0-0 to 7-7-9 2 Part. Uniform 0-0-0 to 3-11-6 3 Point 4-0-4 4 Tie-In 4-1-2 to 7-7-9	1 Tie-In 0-0-0 to 7-7-9 0-4-7 2 Part. Uniform 0-0-0 to 3-11-6 3 Point 4-0-4 4 Tie-In 4-1-2 to 7-7-9 0-7-8	ID Load Type Location Trib Width Side 1 Tie-In 0-0-0 to 7-7-9 0-4-7 Top 2 Part. Uniform 0-0-0 to 3-11-6 Top 3 Point 4-0-4 Near Face 4 Tie-In 4-1-2 to 7-7-9 0-7-8 Top	ID Load Type Location Trib Width Side Dead 1 Tie-In 0-0-0 to 7-7-9 0-4-7 Top 15 PSF 2 Part. Uniform 0-0-0 to 3-11-6 Top 60 PLF 3 Point 4-0-4 Near Face 39 lb 4 Tie-In 4-1-2 to 7-7-9 0-7-8 Top 15 PSF	ID Load Type Location Trib Width Side Dead Live 1 Tie-In 0-0-0 to 7-7-9 0-4-7 Top 15 PSF 40 PSF 2 Part. Uniform 0-0-0 to 3-11-6 Top 60 PLF 160 PLF 3 Point 4-0-4 Near Face 39 lb 90 lb 4 Tie-In 4-1-2 to 7-7-9 0-7-8 Top 15 PSF 40 PSF	ID Load Type Location Trib Width Side Dead Live Snow 1 Tie-In 0-0-0 to 7-7-9 0-4-7 Top 15 PSF 40 PSF 0 PSF 2 Part. Uniform 0-0-0 to 3-11-6 Top 60 PLF 160 PLF 0 PLF 3 Point 4-0-4 Near Face 39 lb 90 lb 0 lb 4 Tie-In 4-1-2 to 7-7-9 0-7-8 Top 15 PSF 40 PSF 0 PSF	ID Load Type Location Trib Width Side Dead Live Snow Wind 1 Tie-In 0-0-0 to 7-7-9 0-4-7 Top 15 PSF 40 PSF 0 PSF 0 PSF 2 Part. Uniform 0-0-0 to 3-11-6 Top 60 PLF 160 PLF 0 PLF 0 PLF 3 Point 4-0-4 Near Face 39 lb 90 lb 0 lb 0 lb 4 Tie-In 4-1-2 to 7-7-9 0-7-8 Top 15 PSF 40 PSF 0 PSF 0 PSF

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

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

Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

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





Client: **GREENPARK** MHP23031 Project: Address: OSHAWA,ON

7/7/2023 Input by: WC

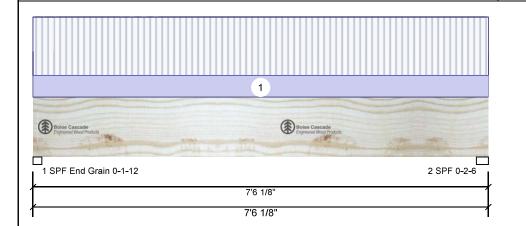
Job Name: ROSE 10-3 STD & DC

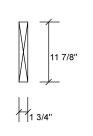
Project #:

F8-A CHEVersa-Lam LVL 2.1E 3100 SP

1.750" X 11.875" - PASSED

Level: Ground Floor





Snow

Wind

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

Unfactored Reactions UNPATTERNED lb (Uplift) Live

1	Vertical	69	48	0	0
2	Vertical	70	49	0	0

Dead

Analysis Results

Member Information

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	292 ft-lb	3'8 3/4"	17696 ft-lb	0.016 (2%)	1.25D+1.5L	L
Unbraced	292 ft-lb	3'8 3/4"	17696 ft-lb	0.016 (2%)	1.25D+1.5L	L
Shear	121 lb	1'1 5/8"	6608 lb	0.018 (2%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/53309)	3'8 13/16"	0.243 (L/360)	0.007 (1%)	D	Uniform
LL Defl inch	0.002 (L/37002)	3'8 13/16"	0.243 (L/360)	0.010 (1%)	L	L
TL Defl inch	0.004 (L/21842)	3'8 13/16"	0.365 (L/240)	0.011 (1%)	D+L	L

Bearings and Factored Reactions

Brg

Direction

Bearing	Length	Dir.	Cap. Rea	ict D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	1.750"	Vert	5%	60 / 104	164	L	1.25D+1.5L
2 - SPF	2 375"	Vert	6%	61 / 105	166	1	1 25D+1 5I



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

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Top must be continuously laterally braced.
- 4 Bottom must be laterally braced at bearings.

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 7-6-2	0-5-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				

Notes

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

Handling & Installation

Handling & Installation

1. 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





Client: Project:

GREENPARK Address: OSHAWA,ON

7/7/2023 Input by: WC

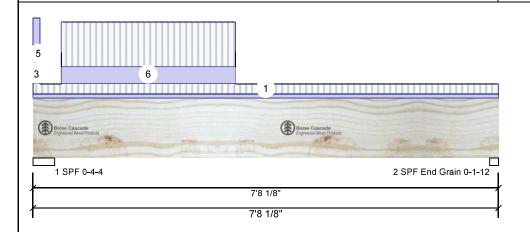
Job Name: ROSE 10-3 STD & DC

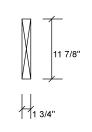
Project #:

F8-B⊶versa-tam LVL 2.1E 3100 SP

1.750" X 11.875" - PASSED

Level: Ground Floor





Member Information Application: Floor (Residential) Type: Plies: 1 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF Dead: 15 PSF

Unfactored	Reactions	UNPAT	TERNED	b	(Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	256	128	0	0
2	Vertical	120	67	0	0

Bearings and Factored Reactions

Grain

Bearing Len	gth Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF 4.27	6" Vert	12%	160 / 383	544	L	1.25D+1.5L
2 - SPF 1.75 End	0" Vert	8%	84 / 180	264	L	1.25D+1.5L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	722 ft-lb	2'11 11/16"	17696 ft-lb	0.041 (4%)	1.25D+1.5L	L
Unbraced	722 ft-lb	2'11 11/16"	17696 ft-lb	0.041 (4%)	1.25D+1.5L	L
Shear	336 lb	1'4 1/8"	6608 lb	0.051 (5%)	1.25D+1.5L	L
Perm Defl in	0.003 (L/28535)	3'9 1/16"	0.243 (L/360)	0.013 (1%)	D	Uniform
LL Defl inch	0.006 (L/14189)	3'8 5/16"	0.243 (L/360)	0.025 (3%)	L	L
TL Defl inch	0.009 (L/9477)	3'8 9/16"	0.365 (L/240)	0.025 (3%)	D+L	L



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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 Girders are designed to be supported on the bottom edge only.
- 3 Top must be continuously laterally braced.
- 4 Bottom must be laterally braced at bearings

4 Bottom mast be laterally braced at bearings.										
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 7-8-2	0-5-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
3	Tapered Start	0-0-0		Тор	7 PLF	19 PLF	0 PLF	0 PLF		
	End	0-1-6			7 PLF	19 PLF	0 PLF	0 PLF		
4	Tapered Start	0-0-0		Тор	3 PLF	8 PLF	0 PLF	0 PLF		
	End	0-1-6			3 PLF	8 PLF	0 PLF	0 PLF		
5	Part. Uniform	0-0-0 to 0-1-6		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	
Continued on	ontinued on page 2									

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

- Dry service conditions, unless noted otherwise
 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





MHP 230 Address: OSHAWA,ON

7/7/2023 Input by: WC

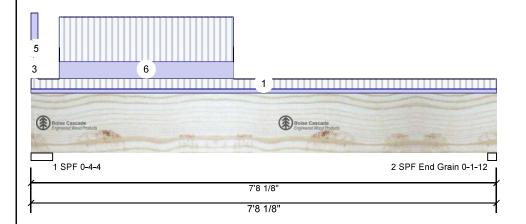
Job Name: ROSE 10-3 STD & DC

Project #:

F8-B Wersartam LV 2.1E 3100 SP

1.750" X 11.875" - PASSED

Level: Ground Floor



.Continued from page 1

ID Load Type Location Trib Width Side Live Wind Comments Dead Snow Part. Uniform 0-5-9 to 3-4-1 30 PLF 80 PLF 0 PLF 0 PLF 6 Тор

> Self Weight 6 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.

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 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.





Client: Project: Address

GREENPARK OSHAWA,ON

7/7/2023 W C Input by:

Job Name: ROSE 10-3 STD & DC

Project #:

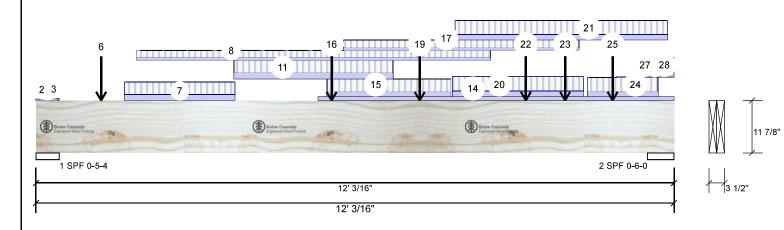
Versa-LamoLVL 2.1E 3100 SP

Oct 31 2023

1.750" X 11.875"

2-Ply - PASSED

Level: Ground Floor



Member Information Unfactored Reactions UNPATTERNED Ib (Uplift) Application: Floor (Residential) Type: Brg Direction Live Dead Snow Wind Plies: 2 Design Method: LSD 3550 1709 Vertical 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 5413 2645 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. 1 - SPF 5.250" Vert 2136 / 5325 7461 L 1.25D+1.5L 2 - SPF 6.000" Vert 88% 3306 / 8120 11426 L 1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	28921 ft-lb	6'1 1/2"	35392 ft-lb	0.817 (82%)	1.25D+1.5L	L
Unbraced	28921 ft-lb	6'1 1/2"	35392 ft-lb	0.817 (82%)	1.25D+1.5L	L
Shear	9369 lb	10'6 5/16"	13217 l b	0.709 (71%)	1.25D+1.5L	L
Perm Defl in.	0.143 (L/939)	6'1 1/4"	0.373 (L/360)	0.383 (38%)	D	Uniform
LL Defl inch	0.298 (L/452)	6'1 3/16"	0.373 (L/360)	0.797 (80%)	L	L
TL Defl inch	0.441 (L/305)	6'1 3/16"	0.560 (L/240)	0.787 (79%)	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 have sheathing attached or be continuously braced.
- 8 Lateral slenderness ratio based on full section width.

		**							
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-5-4	0-5-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-5-4	0-2-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-2-12 to 0-5-4		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-2-12		Far Face	61 l b	162 l b	0 l b	0 lb	J2

Continued on page 2...

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
- CIVLING & 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
 - This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding



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.

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: Project: Address:

GREENPARK MHP 230 OSHAWA,ON

7/7/2023 Input by: WC

Job Name: ROSE 10-3 STD & DC

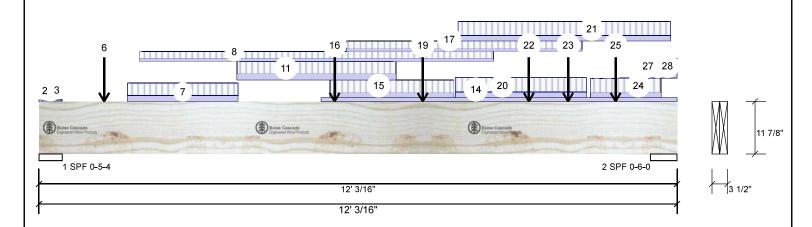
Project #:

Versa-LamoLVL 2.1E 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
6	Point	1-2-12		Near Face	114 l b	233 lb	0 lb	0 lb	J3
7	Part. Uniform	1-8-0 to 3-9-0		Near Face	128 PLF	257 PLF	0 PLF	0 PLF	
8	Part. Uniform	1-10-12 to 8-6-12		Far Face	57 PLF	153 PLF	0 PLF	0 PLF	
11	Part. Uniform	3-8-12 to 6-8-12		Near Face	126 PLF	264 PLF	0 PLF	0 PLF	
14	Part. Uniform	5-3-12 to 12-0-3		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
15	Part. Uniform	5-5-12 to 7-9-12		Тор	104 PLF	266 PLF	0 PLF	0 PLF	J3
16	Point	5-6-13		Тор	467 l b	1126 b	0 lb	0 lb	F13
	Bearing Length	0-5-8							
17	Part. Uniform	5-9-8 to 10-2-12		Тор	59 PLF	157 PLF	0 PLF	0 PLF	J2
19	Point	7-2-12		Near Face	143 b	311 b	0 b	0 lb	J3
20	Part. Uniform	7-10-2 to 10-3-12		Тор	115 PLF	305 PLF	0 PLF	0 PLF	J5
21	Part. Uniform	7-10-12 to 11-10-12		Near Face	111 PLF	296 PLF	0 PLF	0 PLF	
22	Point	9-2-12		Far Face	59 l b	158 lb	0 lb	0 lb	J2
23	Point	9-11-10		Far Face	248 l b	594 lb	0 lb	0 lb	F8
24	Part. Uniform	10-4-10 to 11-8-10		Тор	111 PLF	296 PLF	0 PLF	0 PLF	J5
25	Point	10-10-5		Тор	127 l b	258 lb	0 lb	0 lb	F12
	Bearing Length	0-5-8							
26	Part. Uniform	10-11-3 to 12-0-3		Тор	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
27	Tapered Start	10-11-3		Тор	0 PLF	1 PLF	0 PLF	0 PLF	
	End	12-0-3			0 PLF	1 PLF	0 PLF	0 PLF	
28	Part. Uniform	11-7-12 to 12-0-3		Тор	113 PLF	300 PLF	0 PLF	0 PLF	J5
	Self Weight				12 PLF				PROFESSIONA

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

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. 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

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

Manufacturer Info

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

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario



613-838-2775 / 905-642-4400



Client: Project: Address

GREENPARK OSHAWA,ON

7/7/2023 W C Input by:

Job Name: ROSE 10-3 STD & DC

Project #

FH6 ⊶Versa-⊵am LVL 2.1E 3100 SP

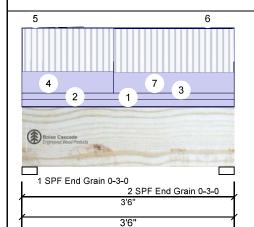
1.750" X 11.875"

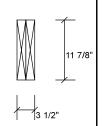
2-Ply - PASSED Level: Ground Floor

1

2

Vertical





0

Wind

0

0

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

Unf	actored Rea	ctions UNPAT	TERNED Ib (Uplift)
Brg	Direction	Live	Dead	Snow
l 1	Vertical	461	392	0

462

Bearings and Factored Reactions												
Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.					
1 - SPF	3.000"	Vert	11%	490 / 692	1182	L	1.25D+1.5L					

386

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	821 ft-lb	1'9"	35392 ft-lb	0.023 (2%)	1.25D+1.5L	L
Unbraced	821 ft-lb	1'9"	35392 ft-lb	0.023 (2%)	1.25D+1.5L	L
Shear	966 lb	2'3 1/8"	13217 l b	0.073 (7%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/69985)	1'9"	0.104 (L/360)	0.005 (1%)	D	Uniform
LL Defl inch	0.001 (L/58902)	1'9"	0.104 (L/360)	0.006 (1%)	L	L
TL Defl inch	0.001 (L/31983)	1'9"	0.156 (L/240)	0.008 (1%)	D+L	L

Member Information

•						
Moment	821 ft-lb	1'9"	35392 ft-lb	0.023 (2%)	1.25D+1.5L	L
Unbraced	821 ft-lb	1'9"	35392 ft-lb	0.023 (2%)	1.25D+1.5L	L
Shear	966 lb	2'3 1/8"	13217 l b	0.073 (7%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/69985)	1'9"	0.104 (L/360)	0.005 (1%)	D	Uniform
LL Defl inch	0.001 (L/58902)	1'9"	0.104 (L/360)	0.006 (1%)	L	L
TL Defl inch	0.001 (L/31983)	1'9"	0.156 (L/240)	0.008 (1%)	D+L	L

Dearings	ana ra	ctorca	itcat				
Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	11%	490 / 692	1182	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	11%	483 / 693	1175	L	1.25D+1.5L



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Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 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.

ID Load Type Trib Width Live Location Side Dead Snow Wind Comments 4 PLF 0 PLF 0 PLF Part. Uniform 0-0-0 to 3-6-0 0 PLF Rim Board Self Weight 1 Near Face 2 Part Uniform 0-0-0 to 3-6-0 40 PLF 0 PLF 0 PLF 0 PLF Wall Self Weight Top 40 PLF 0 PLF 0 PLF 3 Part. Uniform 0-0-0 to 3-6-0 0 PLF Wall Self Weight Near Face 129 PLF 261 PLF 0 PLF 0 PLF 4 Part. Uniform 0-0-0 to 1-6-2 Near Face J3

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-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

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: Project:

GREENPARK MHP 23031 Address: OSHAWA,ON

7/7/2023 Input by: WC

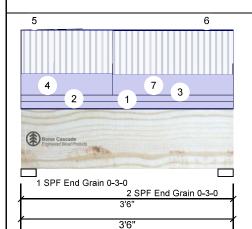
Job Name: ROSE 10-3 STD & DC

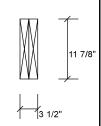
Project #:

FH6 ⊶Versa-⊵am-LVL 2.1E 3100 SP

1.750" X 11.875"

2-Ply - PASSED Level: Ground Floor





Continued	from	page	1
ID		Los	a٢

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Tapered Start	0-0-0		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	1-0-2			2 PLF	5 PLF	0 PLF	0 PLF	
6	Tapered Start	1-0-2		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	3-6-0			0 PLF	1 PLF	0 PLF	0 PLF	
7	Part. Uniform	1-6-2 to 3-6-0		Near Face	124 PLF	263 PLF	0 PLF	0 PLF	J3
	Self Weight				12 PLF				



JULY 10, 2023

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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

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





MHP 230 OSHAWA,ON

7/7/2023 Input by: WC

Job Name: ROSE 10-3 STD & DC

Project #:

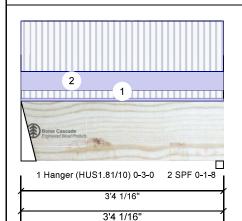
<u>F11 ⊶Versa-t⊧am LVL</u> 2.1E 3100 SP

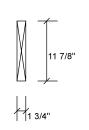
Oct 31 2023

Address:

1.750" X 11.875" - PASSED

Level: Second Floor





Member Information					Unfactored Reactions UNPATTERNED lb (Uplift)							
Туре:	Girder		Application:	Floor (Residential)	Brg	Direction		Live	Dead		Snow	Wind
Plies:	1		Design Method:	LSD	1	Vertical		159	70		0	0
Moisture Conditi	on: Dry		Building Code:	NBCC 2015	2	Vertical		148	65		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	Factore	d Rea	ctions			
Dead:	15 PSF				Be	aring Leng	th Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
					1 -	3.000	" Vert	6%	87 / 238	326	L	1.25D+1.5L
					_ Ha	nger						
Analysis Resu	ılts				2 -	SPF 1.509	" Vert	19%	81 / 221	302	L	1.25D+1.5L
Analysis A	∖ctua l	Location A	llowed Capac	ity Comb. Case								
	0461	410 40/401 4	7000 51 11 0 0 10 /	40() 4 05D : 4 51 1	1							

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	224 ft-lb	1'8 13/16"	17696 ft-lb	0.013 (1%)	1.25D+1.5L	L
Unbraced	224 ft-lb	1'8 13/16"	17696 ft-lb	0.013 (1%)	1.25D+1.5L	L
Shear	100 lb	1'2 7/8"	6608 l b	0.015 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/198723)	1'8 13/16"	0.103 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/87330)	1'8 13/16"	0.103 (L/360)	0.004 (0%)	L	L
TL Defl inch	0.001 (L/60669)	1'8 13/16"	0.154 (L/240)	0.004 (0%)	D+L	L



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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: DF, Thickness: 1 3/4"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 3-4-1	0-3-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 3-4-1	1-11-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				

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

Handling & Installation

- Handling & Installation

 1. IVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

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





OSHAWA,ON

7/7/2023 Input by: WC

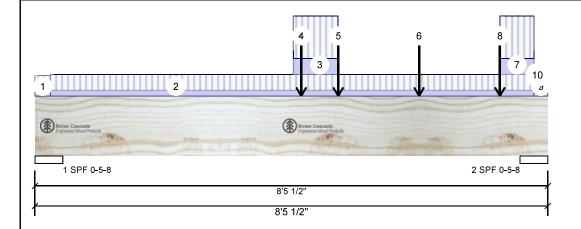
Job Name: ROSE 10-3 STD & DC

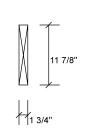
Project #:

<u>F12 ⊶Versa-⊨am LV</u>L 2.1E 3100 SP

1.750" X 11.875" - PASSED

Level: Second Floor





Member Information

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

40 PSF 15 PSF

Application: Floor (Residential)

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

Not Checked Deck:

Load Sharing: No Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	258	127	0	0
2	Vertical	411	185	0	0

Bearings and Factored Reactions

Bearing Ler	ngth Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF 5.50	00" Vert	9%	158 / 387	545	L	1.25D+1.5L
2 - SPF 5.50	00" Vert	14%	231 / 616	847	L	1.25D+1.5L

Analysis Results

Floor Live:

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1621 ft-lb	4'4 11/16"	17696 ft-lb	0.092 (9%)	1.25D+1.5L	L
Unbraced	1621 ft-lb	4'4 11/16"	17696 ft-lb	0.092 (9%)	1.25D+1.5L	L
Shear	692 l b	7' 1/8"	6608 lb	0.105 (10%)	1.25D+1.5L	L
Perm Defl in.	0.007 (L/13366)	4'4 5/16"	0.256 (L/360)	0.027 (3%)	D	Uniform
LL Defl inch	0.015 (L/6133)	4'4 9/16"	0.256 (L/360)	0.059 (6%)	L	L
TL Defl inch	0.022 (L/4204)	4'4 1/2"	0.383 (L/240)	0.057 (6%)	D+L	L



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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 Girders are designed to be supported on the bottom edge only.
- 3 Top must be continuously laterally braced.
- 4 Bottom must be laterally braced at a maximum of 4'4 11/16" o.c.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-3-2	0-7-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-3-2 to 8-2-12	0-7-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	4-3-1 to 5-0-0	1-9-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	4-4-11		Near Face	70 l b	159 l b	0 l b	0 l b	F11
5	Point	5-0-0		Near Face	24 lb	65 l b	0 l b	0 lb	J1
6	Point	6-4-0		Near Face	34 lb	89 l b	0 l b	0 lb	J1
7	Tie-In	7-8-0 to 8-2-12	1-9-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 2...

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

Handling & Installation

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





Address:

7/7/2023 Input by: WC

Job Name: ROSE 10-3 STD & DC

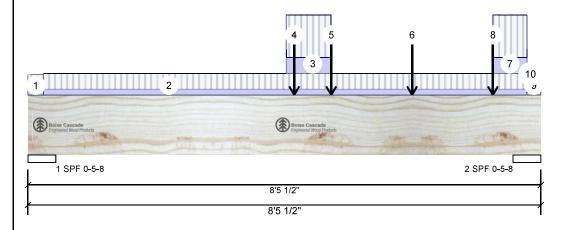
Project #:

F12 - Versa-Fam LV 2.1E 3100 SP

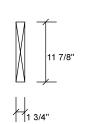
Oct 31 2023

1.750" X 11.875" - PASSED

Level: Second Floor



OSHAWA,ON



Continued	from	page	1
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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
8	Point	7-8-0		Near Face	17 l b	45 lb	0 lb	0 l b	J1
9	Tie-In	8-2-12 to 8-5-8	0-3-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
10	Tie-In	8-2-12 to 8-5-8	0-4-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				



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Handling & Installation

Handling & Installation

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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



Address:

OSHAWA,ON

7/7/2023 Input by: WC

Job Name: ROSE 10-3 STD & DC

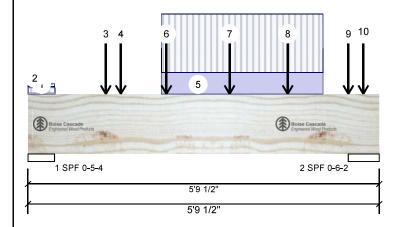
Project #:

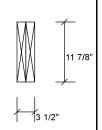
F13 Versa Lam LVL 2.1E 3100 SP

1.750" X 11.875"

2-Ply - PASSED

Level: Second 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 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	830	354	0	0
2	Vertical	1126	467	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	15%	443 / 1244	1687	L	1.25D+1.5L
2 - SPF	6.136"	Vert	17%	584 / 1689	2274	L	1.25D+1.5L

Analysis Results

Dead:

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	2464 ft-lb	2'11 11/16"	35392 ft-lb	0.070 (7%)	1.25D+1.5L	L
Unbraced	2464 ft-lb	2'11 11/16"	35392 ft-lb	0.070 (7%)	1.25D+1.5L	L
Shear	1819 l b	1'5 1/8"	13217 l b	0.138 (14%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/25494)	2'10 5/16"	0.166 (L/360)	0.014 (1%)	D	Uniform
LL Defl inch	0.006 (L/10588)	2'10 3/8"	0.166 (L/360)	0.034 (3%)	L	L
TL Defl inch	0.008 (L/7481)	2'10 5/16"	0.248 (L/240)	0.032 (3%)	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	Tie-In	0-0-0 to 0-5-6	0-3-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-5-4	0-2-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-3-6		Near Face	95 b	242 l b	0 lb	0 l b	J3
4	Point	1-6-6		Far Face	71 b	188 b	0 b	0 lb	J2

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 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: Project: Address:

GREENPARK MHP230 OSHAWA,ON

7/7/2023 Input by: WC

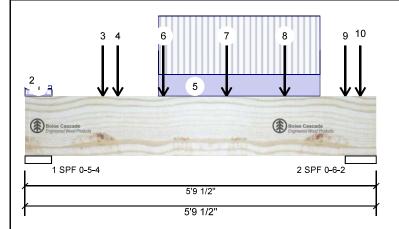
Job Name: ROSE 10-3 STD & DC

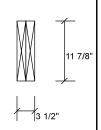
Project #:

F13 Versa Lam LVL 2.1E 3100 SP

1.750" X 11.875"

2-Ply - PASSED Level: Second Floor





Continued fro	m page 1								
ID	Load Type	Location Tr	rib Width	Side	Dead	Live	Snow	Wind	Comments
5	Part. Uniform	2-2-6 to 4-10-6		Far Face	58 PLF	156 PLF	0 PLF	0 PLF	
6	Point	2-3-6		Near Face	106 l b	268 l b	0 lb	0 l b	J3
7	Point	3-3-14		Near Face	103 l b	263 lb	0 lb	0 l b	J3
8	Point	4-3-6		Near Face	100 l b	257 lb	0 lb	0 l b	J3
9	Point	5-3-6		Near Face	68 l b	174 l b	0 lb	0 l b	J3
10	Point	5-6-6		Far Face	52 l b	139 lb	0 lb	0 l b	J2
	Self Weight				12 PLF				



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Dry service conditions, unless noted otherwise
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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

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Client: Project: Address:

GREENPARK OSHAWA,ON

7/7/2023 Input by: WC

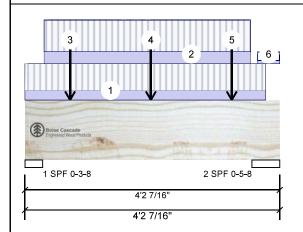
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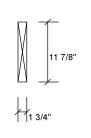
Project #:

Versawlam LVL 2.1E 3100 SP

1.750" X 11.875" - PASSED

Level: Second Floor





Member	Information
Type:	Girder

1,700.	Oli dol
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

40 PSF Floor Live: 15 PSF Application: Floor (Residential)

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

OBC 2012(2020 Update) Load Sharing:

Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	388	158	0	0
2	Vertical	383	158	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	21%	198 / 581	779	L	1.25D+1.5L
2 - SPF	5.500"	Vert	13%	197 / 575	772	L	1.25D+1.5L

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	703 ft-lb	2' 15/16"	17696 ft-lb	0.040 (4%)	1.25D+1.5L	L
Unbraced	703 ft-lb	2' 15/16"	17696 ft-lb	0.040 (4%)	1.25D+1.5L	L
Shear	440 lb	1'3 3/8"	6608 lb	0.067 (7%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/61907)	2' 3/8"	0.119 (L/360)	0.006 (1%)	D	Uniform
LL Defl inch	0.002 (L/25149)	2' 3/8"	0.119 (L/360)	0.014 (1%)	L	L
TL Defl inch	0.002 (L/17884)	2' 3/8"	0.179 (L/240)	0.013 (1%)	D+L	L



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 3-11-11	1-9-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-3-12 to 3-8-10		Тор	32 PLF	84 PLF	0 PLF	0 PLF	
3	Point	0-8-15		Far Face	24 lb	65 lb	0 lb	0 l b	J1
4	Point	2-0-15		Far Face	34 lb	89 lb	0 lb	0 l b	J1
5	Point	3-4-15		Far Face	17 l b	45 lb	0 lb	0 l b	J1
6	Tie-In	3-10-1 to 4-2-7	0-6-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				

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