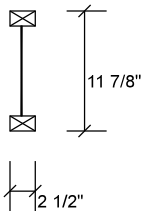
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F1 AJS 140 11.875" - PASSED

Level: Ground Floor



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	94	35	0	0
2	Vertical	90	34	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	12%	44 / 141	185	L	1.25D+1.5L
2 - SPF	2.375"	Vert	11%	42 / 135	177	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	46 ft-lb	8 3/8"	5305 ft-lb	0.009 (1%)	1.25D+1.5L	L
Unbraced	46 ft-lb	8 3/8"	5305 ft-lb	0.009 (1%)	1.25D+1.5L	L
Shear	156 lb	1 1/4"	2350 lb	0.067 (7%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/107972)	8 3/8"	0.040 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.000 (L/40490)	8 3/8"	0.040 (L/360)	0.009 (1%)	L	L
TL Defl inch	0.000 (L/29447)	8 3/8"	0.060 (L/240)	0.008 (1%)	D+L	L

JULY 24, 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.

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 1-5-6	1-11-13 to 1-3-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-5-6	1-6-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	

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.

Lumber

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

Handling & Installation

1. IJoist flanges must not be cut or drilled
2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply 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.
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

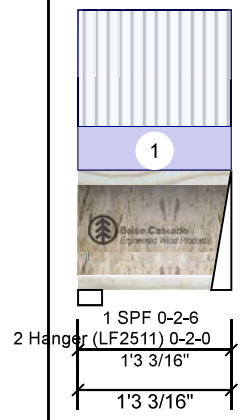
Boise Cascade Wood Products
1111 W. Jefferson St.
Boise, ID 83702
(800) 232-0788
www.bc.com
CCMC: 12787

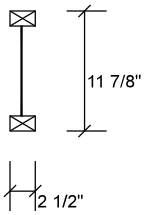
Kott Inc.
3228 Moodie Dr, Ottawa, Ontario
613-838-2775 / 905-642-4400

Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F1-A AJS 140 11.875" - PASSED

Level: Ground Floor





Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	43	16	0	0
2	Vertical	41	15	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	5%	20 / 65	85	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	5%	19 / 62	81	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	17 ft-lb	7 3/4"	5305 ft-lb	0.003 (0%)	1.25D+1.5L	L
Unbraced	17 ft-lb	7 3/4"	5305 ft-lb	0.003 (0%)	1.25D+1.5L	L
Shear	67 lb	1 5/8"	2350 lb	0.029 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/246418)	7 13/16"	0.034 (L/360)	0.001 (0%)	D	Uniform
LL Defl inch	0.000 (L/92407)	7 13/16"	0.034 (L/360)	0.004 (0%)	L	L
TL Defl inch	0.000 (L/67205)	7 13/16"	0.051 (L/240)	0.004 (0%)	D+L	L

JULY 24, 2023

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Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-3-3	1-8-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

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Lumber

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

Handling & Installation

1. IJoist flanges must not be cut or drilled
2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply 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.
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

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CCMC: 12787

Kott Inc.
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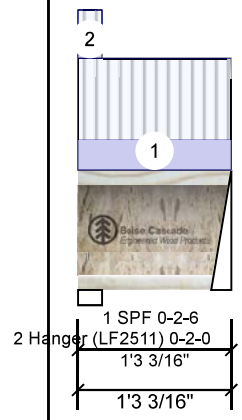
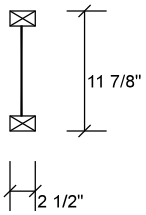
613-838-2775 / 905-642-4400

Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F1-B AJS 140 11.875" - PASSED

Level: Ground Floor





Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	49	18	0	0
2	Vertical	41	15	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	6%	23 / 73	96	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	5%	19 / 62	81	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	17 ft-lb	7 3/4"	5305 ft-lb	0.003 (0%)	1.25D+1.5L	L
Unbraced	17 ft-lb	7 3/4"	5305 ft-lb	0.003 (0%)	1.25D+1.5L	L
Shear	71 lb	1 5/8"	2350 lb	0.030 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/245617)	7 3/4"	0.034 (L/360)	0.001 (0%)	D	Uniform
LL Defl inch	0.000 (L/92106)	7 3/4"	0.034 (L/360)	0.004 (0%)	L	L
TL Defl inch	0.000 (L/66986)	7 3/4"	0.051 (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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JULY 24, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-3-3	1-8-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-2-6	0-8-11	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

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Lumber

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2. IJoist not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. IJoist flanges must not be cut or drilled
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6. Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
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CCMC: 12787

Kott Inc.
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613-838-2775 / 905-642-4400

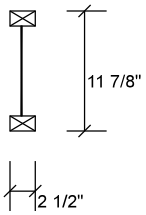
iStructDesign

Client: GREENPARK
Project:
Address: ZADORRA ESTATES OSHAWA ON

Date: 5/15/2023
Input by: W C
Job Name: CAROL 12-1 STD
Project #:

F1-C AJS 140 11.875" - PASSED

Level: Ground Floor



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	93	35	0	0
2	Vertical	89	33	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	11%	44 / 140	184	L	1.25D+1.5L
2 - SPF	2.375"	Vert	10%	42 / 134	176	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	45 ft-lb	8 3/8"	5305 ft-lb	0.009 (1%)	1.25D+1.5L	L
Unbraced	45 ft-lb	8 3/8"	5305 ft-lb	0.009 (1%)	1.25D+1.5L	L
Shear	155 lb	1 1/4"	2350 lb	0.066 (7%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/108882)	8 3/8"	0.040 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.000 (L/40831)	8 3/8"	0.040 (L/360)	0.009 (1%)	L	L
TL Defl inch	0.000 (L/29695)	8 3/8"	0.060 (L/240)	0.008 (1%)	D+L	L

JULY 24, 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
1	Tie-In	0-0-0 to 1-5-6	1-6-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-5-6	1-11-8 to 1-2-13	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

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Lumber

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

Handling & Installation

1. IJoist flanges must not be cut or drilled
2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply 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.
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

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CCMC: 12787

Kott Inc.
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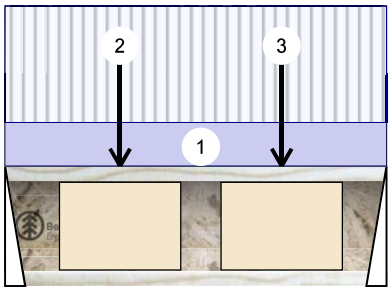
KOTT

CSD DRAW DESIGN BUILD

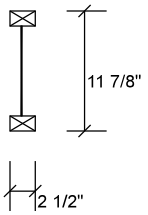
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F2 AJS 140 11.875" - PASSED

Level: Ground Floor



1 Hanger (LF2511) 0-2-0
2 Hanger (LF2511) 0-2-0
3'1 3/4"
3'1 3/4"



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	420	158	0	0
2	Vertical	435	164	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	51%	197 / 630	827	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	53%	204 / 653	857	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	672 ft-lb	1'1 3/16"	5305 ft-lb	0.127 (13%)	1.25D+1.5L	L
Unbraced	672 ft-lb	1'1 3/16"	5305 ft-lb	0.127 (13%)	1.25D+1.5L	L
Shear	851 lb	3' 1/2"	2350 lb	0.362 (36%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/13938)	1'5 3/4"	0.098 (L/360)	0.026 (3%)	D	Uniform
LL Defl inch	0.007 (L/5239)	1'5 3/4"	0.098 (L/360)	0.069 (7%)	L	L
TL Defl inch	0.009 (L/3808)	1'5 3/4"	0.147 (L/240)	0.063 (6%)	D+L	L

JULY 24, 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 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 maximum 2' o.c.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 3-1-12	0-9-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-11-6		Far Face	145 lb	386 lb	0 lb	0 lb	J4
3	Point	2-3-6		Far Face	140 lb	372 lb	0 lb	0 lb	J4

Notes

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Lumber

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Handling & Installation

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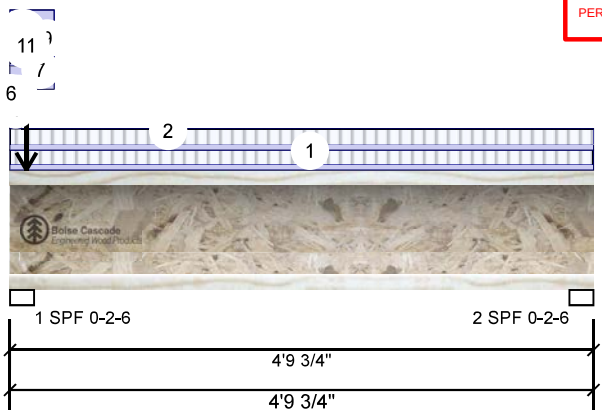
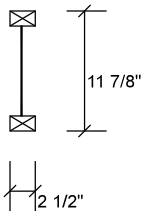
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F3 AJS 140 11.875" - PASSED

Level: Ground Floor





Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	171	361	25	0
2	Vertical	124	47	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	48%	451 / 208	659	L	1.25D+1.5S +L
2 - SPF	2.375"	Vert	16%	59 / 186	245	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	264 ft-lb	2'4 3/4"	4934 ft-lb	0.054 (5%)	1.25D+1.5L	L
Unbraced	264 ft-lb	2'4 3/4"	4934 ft-lb	0.054 (5%)	1.25D+1.5L	L
Shear	269 lb	1 5/8"	2186 lb	0.123 (12%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/39826)	2'4 9/16"	0.151 (L/360)	0.009 (1%)	D	Uniform
LL Defl inch	0.004 (L/15460)	2'4 7/8"	0.151 (L/360)	0.023 (2%)	L+0.5S	L
TL Defl inch	0.005 (L/11137)	2'4 13/16"	0.227 (L/240)	0.022 (2%)	D+L+0.5S	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 bearings.

JULY 24, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 4-9-12	0-7-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 4-9-12	0-8-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-0-0 to 0-1-2		Top	20 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Top	2 PLF	5 PLF	0 PLF	0 PLF	
	End	0-1-2			2 PLF	5 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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Lumber

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

Handling & Installation

1. IJoist flanges must not be cut or drilled
2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply 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.
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

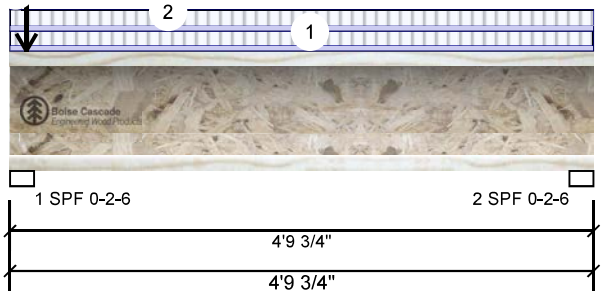
Kott Inc.
3228 Moodie Dr, Ottawa, Ontario
613-838-2775 / 905-642-4400

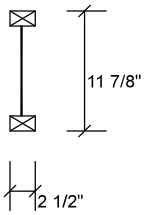
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F3 AJS 140 11.875" - PASSED

Level: Ground Floor

11 /
6





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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Part. Uniform	0-0-0 to 0-1-2		Top	1 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
6	Part. Uniform	0-0-0 to 0-1-2		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Part. Uniform	0-0-0 to 0-4-6		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Tapered Start	0-0-0		Top	4 PLF	10 PLF	0 PLF	0 PLF	
	End	0-4-6			4 PLF	10 PLF	0 PLF	0 PLF	
9	Part. Uniform	0-0-0 to 0-4-6		Top	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
10	Part. Uniform	0-0-0 to 0-4-6		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
11	Point	0-1-10		Top	263 lb	43 lb	25 lb	0 lb	B4
	Bearing Length	0-1-8							

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 24, 2023

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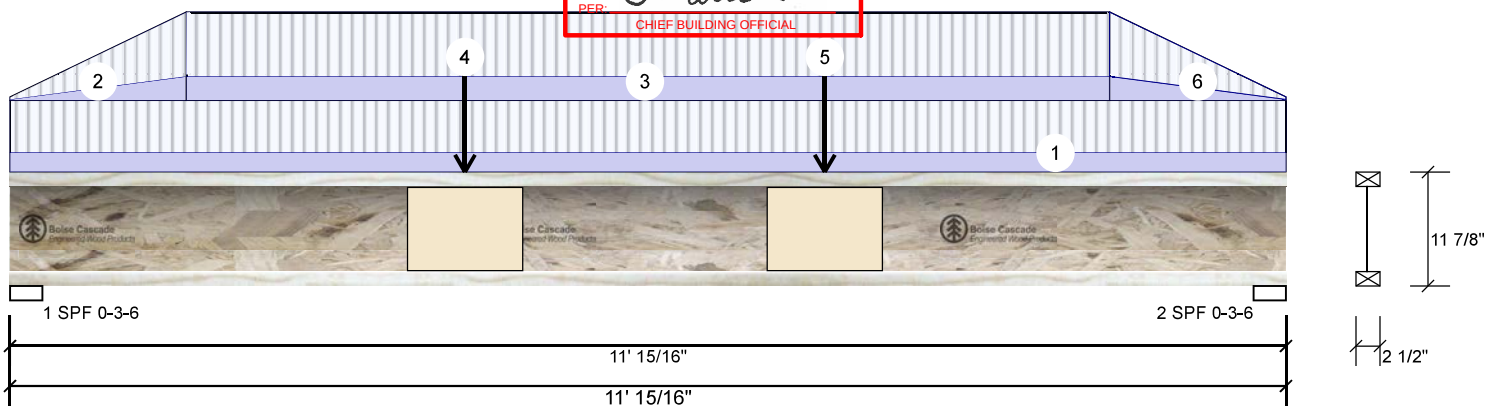
		Project #:	

F4 AJS 140 11.875" - PASSED

Level: Ground Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	390	146	0	0
2	Vertical	390	146	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.375"	Vert	41%	183 / 585	768	L	1.25D+1.5L
2 - SPF	3.375"	Vert	41%	182 / 585	767	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2286 ft-lb	5'6 5/8"	5305 ft-lb	0.431 (43%)	1.25D+1.5L	L
Unbraced	2286 ft-lb	5'6 5/8"	5305 ft-lb	0.431 (43%)	1.25D+1.5L	L
Shear	756 lb	2 5/8"	2350 lb	0.322 (32%)	1.25D+1.5L	L
Perm Defl in.	0.035 (L/3667)	5'6 1/2"	0.355 (L/360)	0.098 (10%)	D	Uniform
LL Defl inch	0.093 (L/1374)	5'6 1/2"	0.355 (L/360)	0.262 (26%)	L	L
TL Defl inch	0.128 (L/1000)	5'6 1/2"	0.532 (L/240)	0.240 (24%)	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' 1/16" o.c.

JULY 24, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 11-0-15	0-7-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-6-6	0-0-6 to 0-9-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	1-6-6 to 9-6-9	0-9-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	3-11-7		Near Face	35 lb	93 lb	0 lb	0 lb	F1
5	Point	7-0-14		Near Face	35 lb	94 lb	0 lb	0 lb	F1
6	Tie-In	9-6-9 to 11-0-15	0-9-9 to 0-0-6	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

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Lumber

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2. IJoist not to be treated with fire retardant or corrosive chemicals

Handling & Installation

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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.
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

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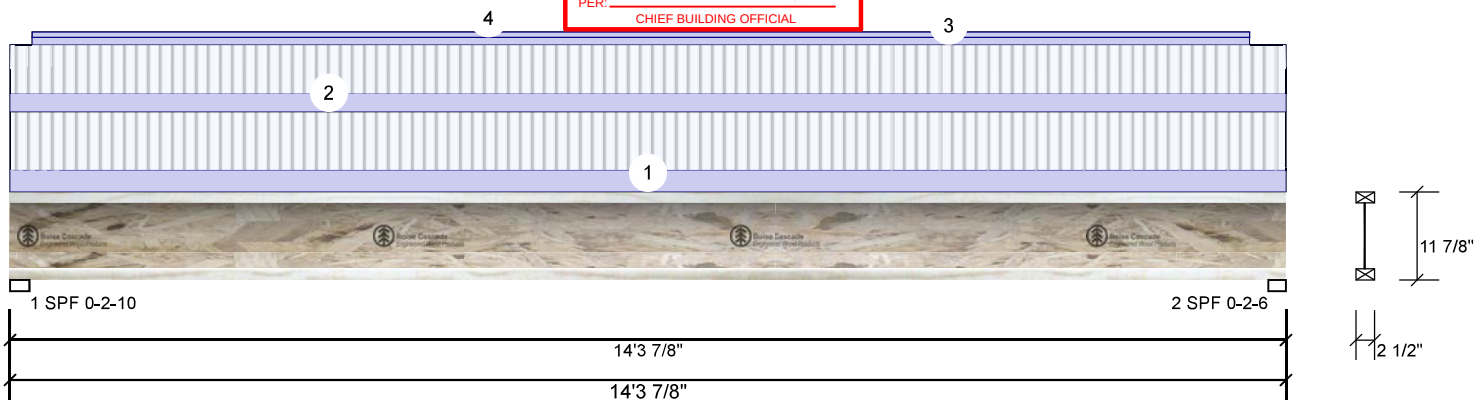
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F5 AJS 140 11.875" - PASSED

Level: Ground Floor



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	418	205	0	0
2	Vertical	417	204	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.625"	Vert	51%	257 / 627	884	L	1.25D+1.5L
2 - SPF	2.375"	Vert	52%	255 / 625	880	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3042 ft-lb	7'2 1/16"	5305 ft-lb	0.573 (57%)	1.25D+1.5L	L
Unbraced	3042 ft-lb	7'2 1/16"	5305 ft-lb	0.573 (57%)	1.25D+1.5L	L
Shear	866 lb	1 7/8"	2350 lb	0.369 (37%)	1.25D+1.5L	L
Perm Defl in.	0.091 (L/1845)	7'2 1/16"	0.468 (L/360)	0.195 (20%)	D	Uniform
LL Defl inch	0.184 (L/913)	7'2 1/16"	0.468 (L/360)	0.394 (39%)	L	L
TL Defl inch	0.276 (L/611)	7'2 1/16"	0.702 (L/240)	0.393 (39%)	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 bearings.

JULY 24, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 14-3-14	0-9-8	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 14-3-14	0-8-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-3-0 to 13-10-15		Top	4 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-3-0 to 13-10-15		Top	3 PLF	0 PLF	0 PLF	0 PLF	

Notes

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Lumber

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

Handling & Installation

1. IJoist flanges must not be cut or drilled
2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply 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.
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

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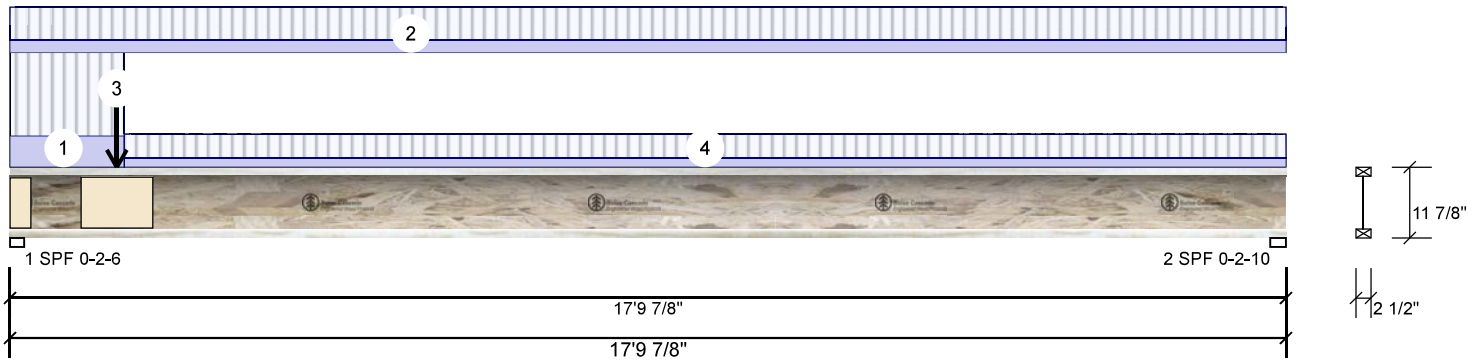
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F6 AJS 140 11.875" - PASSED

Level: Ground Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	885	332	0	0
2	Vertical	447	168	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	76%	416 / 1326	1742	L	1.25D+1.5L
2 - SPF	2.625"	Vert	51%	210 / 671	881	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4144 ft-lb	8'1 1/4"	5305 ft-lb	0.781 (78%)	1.25D+1.5L	L
Unbraced	4144 ft-lb	8'1 1/4"	5305 ft-lb	0.781 (78%)	1.25D+1.5L	L
Shear	1717 lb	1 5/8"	2350 lb	0.731 (73%)	1.25D+1.5L	L
Perm Defl in.	0.155 (L/1356)	8'7 13/16"	0.584 (L/360)	0.266 (27%)	D	Uniform
LL Defl inch	0.413 (L/509)	8'7 13/16"	0.584 (L/360)	0.707 (71%)	L	L
TL Defl inch	0.569 (L/370)	8'7 13/16"	0.877 (L/240)	0.649 (65%)	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 16'4" o.c.
5 Web stiffeners required at Bearing 1.

JULY 24, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-7-3	1-8-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 17-9-14	0-8-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-15		Far Face	164 lb	435 lb	0 lb	0 lb	F2
4	Tie-In	1-7-3 to 17-9-14	0-5-13	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

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Lumber

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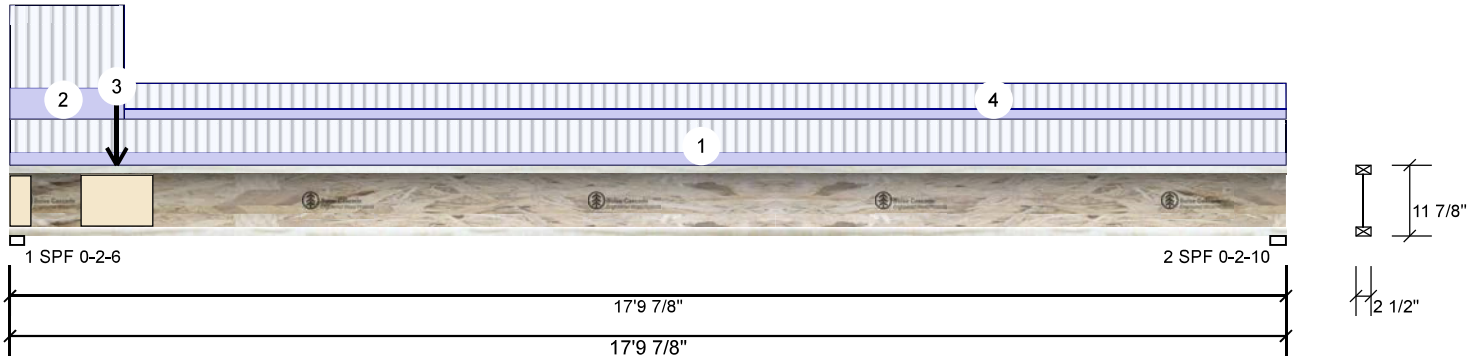

Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	888	334	0	0
2	Vertical	467	175	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	77%	417 / 1333	1750	L	1.25D+1.5L
2 - SPF	2.625"	Vert	53%	219 / 700	919	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4291 ft-lb	8'2 1/16"	5305 ft-lb	0.809 (81%)	1.25D+1.5L	L
Unbraced	4291 ft-lb	8'2 1/16"	5305 ft-lb	0.809 (81%)	1.25D+1.5L	L
Shear	1725 lb	1 5/8"	2350 lb	0.734 (73%)	1.25D+1.5L	L
Perm Defl in.	0.161 (L/1311)	8'8 1/16"	0.584 (L/360)	0.275 (27%)	D	Uniform
LL Defl inch	0.428 (L/492)	8'8 1/16"	0.584 (L/360)	0.732 (73%)	L	L
TL Defl inch	0.588 (L/358)	8'8 1/16"	0.877 (L/240)	0.671 (67%)	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 16'4" o.c.
5 Web stiffeners required at Bearing 1.

JULY 24, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 17-9-14	0-8-3	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-7-3	1-8-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-15		Near Face	158 lb	420 lb	0 lb	0 lb	F2
4	Tie-In	1-7-3 to 17-9-14	0-6-5	Top	15 PSF	40 PSF	0 PSF	0 PSF	

Notes

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Lumber

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

Handling & Installation

1. IJoist flanges must not be cut or drilled
2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply 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.
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

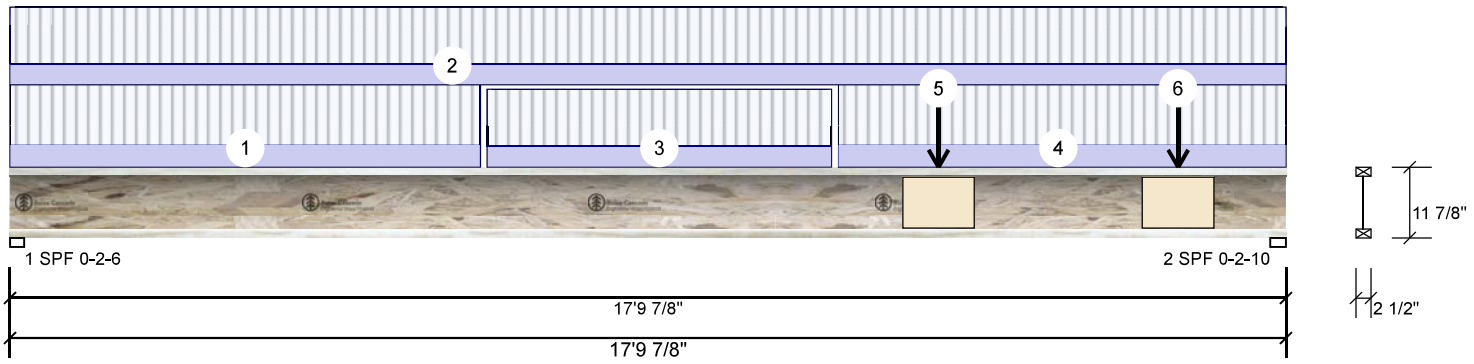
Boise Cascade Wood Products
1111 W. Jefferson St.
Boise, ID 83702
(800) 232-0788
www.bc.com
CCMC: 12787

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

Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F6-B AJS 140 11.875" - PASSED

Level: Ground Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	497	186	0	0
2	Vertical	552	206	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	58%	233 / 746	979	L	1.25D+1.5L
2 - SPF	2.625"	Vert	63%	258 / 828	1086	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4316 ft-lb	9'1 15/16"	5305 ft-lb	0.814 (81%)	1.25D+1.5L	L
Unbraced	4316 ft-lb	9'1 15/16"	5305 ft-lb	0.814 (81%)	1.25D+1.5L	L
Shear	1069 lb	17'8"	2350 lb	0.455 (45%)	1.25D+1.5L	L
Perm Defl in.	0.159 (L/1323)	8'11 11/16"	0.584 (L/360)	0.272 (27%)	D	Uniform
LL Defl inch	0.425 (L/495)	8'11 3/4"	0.584 (L/360)	0.727 (73%)	L	L
TL Defl inch	0.584 (L/360)	8'11 3/4"	0.877 (L/240)	0.666 (67%)	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 12'11 5/8" o.c.

JULY 24, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 6-6-14	0-8-8	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 17-9-14	0-8-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	6-8-0 to 11-5-12	0-8-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	11-6-14 to 17-9-14	0-8-8	Top	15 PSF	40 PSF	0 PSF	0 PSF	
5	Point	12-11-10		Far Face	15 lb	41 lb	0 lb	0 lb	F1
6	Point	16-3-13		Far Face	15 lb	41 lb	0 lb	0 lb	F1

Notes

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Lumber

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

Handling & Installation

1. IJoist flanges must not be cut or drilled
2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply 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.
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

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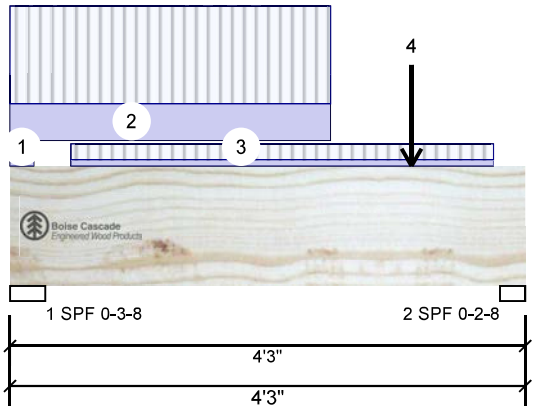
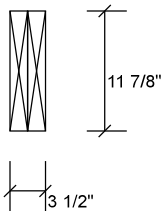
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F7-B Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Ground Floor





Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	751	308	0	0
2	Vertical	635	263	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	20%	384 / 1126	1511	L	1.25D+1.5L
2 - SPF	2.500"	Vert	24%	328 / 952	1280	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1323 ft-lb	2'1 15/16"	35392 ft-lb	0.037 (4%)	1.25D+1.5L	L
Unbraced	1323 ft-lb	2'1 15/16"	35392 ft-lb	0.037 (4%)	1.25D+1.5L	L
Shear	1777 lb	3' 5/8"	13217 lb	0.134 (13%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/59116)	2'2 1/8"	0.129 (L/360)	0.006 (1%)	D	Uniform
LL Defl inch	0.002 (L/24166)	2'2 1/8"	0.129 (L/360)	0.015 (1%)	L	L
TL Defl inch	0.003 (L/17154)	2'2 1/8"	0.194 (L/240)	0.014 (1%)	D+L	L

Design Notes

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

JULY 24, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-2-6	1-5-5	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 2-7-12		Near Face	114 PLF	304 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-6-0 to 3-11-14		Top	19 PLF	50 PLF	0 PLF	0 PLF	
4	Point	3-3-12		Near Face	148 lb	396 lb	0 lb	0 lb	J3
	Self Weight				12 PLF				

Notes

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Lumber

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

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

Manufacturer Info

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CCMC: 12472

Kott Inc.
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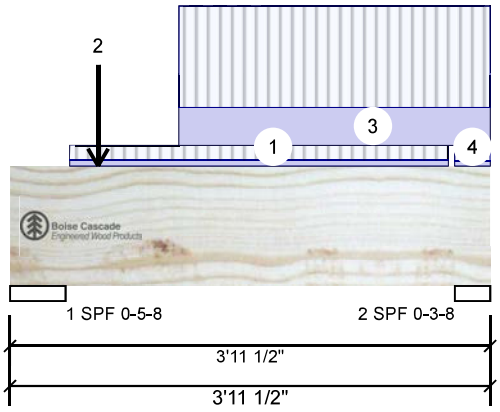
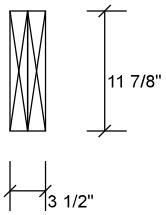
613-838-2775 / 905-642-4400

Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F8-A Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Ground Floor





Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	696	285	0	0
2	Vertical	717	291	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	Vert	12%	357 / 1044	1401	L	1.25D+1.5L
2 - SPF	3.500"	Vert	19%	364 / 1076	1439	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1038 ft-lb	2'1 1/8"	35392 ft-lb	0.029 (3%)	1.25D+1.5L	L
Unbraced	1038 ft-lb	2'1 1/8"	35392 ft-lb	0.029 (3%)	1.25D+1.5L	L
Shear	1920 lb	1'5 3/8"	13217 lb	0.145 (15%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/85855)	2' 7/8"	0.111 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch	0.001 (L/34910)	2' 7/8"	0.111 (L/360)	0.010 (1%)	L	L
TL Defl inch	0.002 (L/24818)	2' 7/8"	0.167 (L/240)	0.010 (1%)	D+L	L

Design Notes

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

JULY 24, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-5-15 to 3-7-6		Top	19 PLF	50 PLF	0 PLF	0 PLF	
2	Point	0-8-11		Near Face	142 lb	379 lb	0 lb	0 lb	J4
3	Part. Uniform	1-4-11 to 3-11-8		Near Face	126 PLF	337 PLF	0 PLF	0 PLF	
4	Tie-In	3-8-0 to 3-11-8	1-1-5	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	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.

Lumber

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

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

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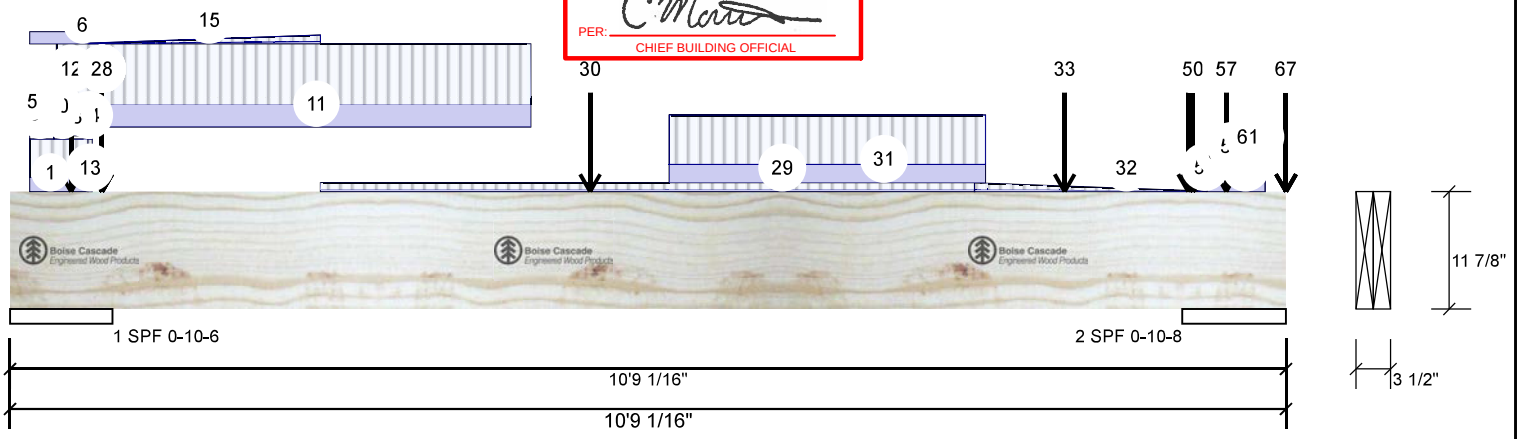
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F9-A Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Ground Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	3469	1853	155	0
2	Vertical	3180	1778	173	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	10.375"	Vert	34%	2317 / 5359	7676	L	1.25D+1.5L +S
2 - SPF	10.500"	Vert	32%	2222 / 4944	7166	L	1.25D+1.5L +S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8180 ft-lb	4'10 11/16"	35392 ft-lb	0.231 (23%)	1.25D+1.5L	L
Unbraced	8180 ft-lb	4'10 11/16"	35392 ft-lb	0.231 (23%)	1.25D+1.5L	L
Shear	3906 lb	8'10 11/16"	13217 lb	0.296 (30%)	1.25D+1.5L	L
Perm Defl in.	0.025 (L/4469)	5'4 1/16"	0.305 (L/360)	0.081 (8%)	D	Uniform
LL Defl inch	0.061 (L/1811)	5'4"	0.305 (L/360)	0.199 (20%)	L+0.5S	L
TL Defl inch	0.085 (L/1289)	5'4"	0.457 (L/240)	0.186 (19%)	D+L+0.5S	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.
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9 Lateral slenderness ratio based on full section width.

JULY 24, 2023

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Notes

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Lumber

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2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL 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
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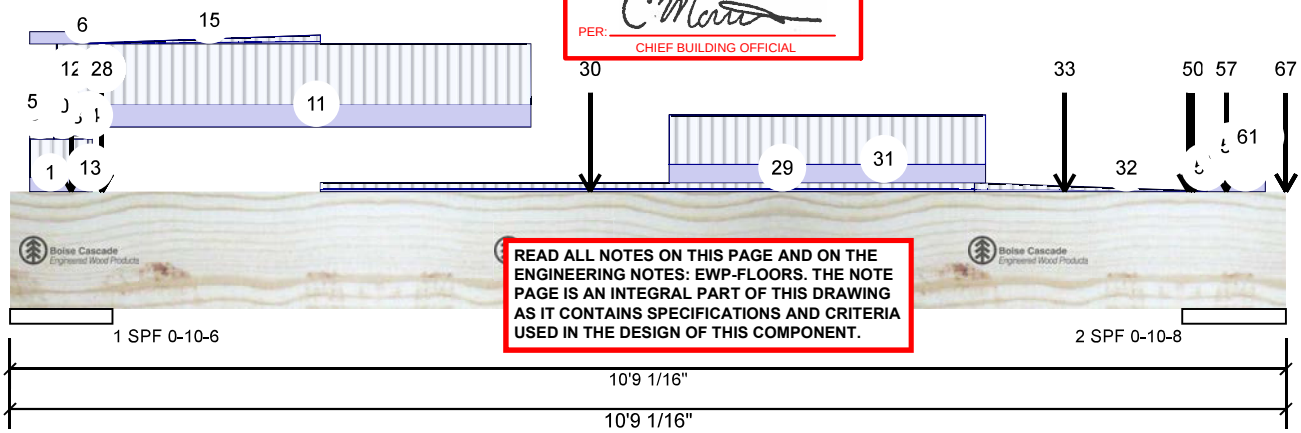
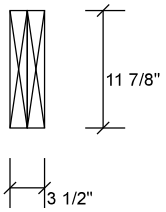
Level: Ground Floor





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-2-0 to 0-7-14		Top	94 PLF	252 PLF	0 PLF	0 PLF	J8
2	Part. Uniform	0-2-0 to 0-4-7		Top	0 PLF	0 PLF	43 PLF	0 PLF	
3	Part. Uniform	0-2-0 to 0-4-7		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-2-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	
	End	0-4-7			0 PLF	1 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-2-0 to 0-4-7		Top	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
6	Part. Uniform	0-2-0 to 0-7-14		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Part. Uniform	0-4-7 to 0-7-6		Top	0 PLF	0 PLF	22 PLF	0 PLF	
8	Part. Uniform	0-4-7 to 0-7-6		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
10	Part. Uniform	0-4-7 to 0-7-6		Top	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
11	Part. Uniform	0-4-11 to 4-4-11		Far Face	149 PLF	398 PLF	0 PLF	0 PLF	
12	Point	0-6-3		Top	502 lb	729 lb	78 lb	0 lb	B3
	Bearing Length	0-5-8							
13	Part. Uniform	0-7-14 to 0-8-5		Top	94 PLF	252 PLF	0 PLF	0 PLF	J8
14	Part. Uniform	0-7-14 to 0-8-5		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
15	Tie-In	0-7-15 to 2-7-6	0-0-14 to 1-0-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
16	Point	0-9-5		Top	386 lb	561 lb	60 lb	0 lb	B3
	Bearing Length	0-5-8							
17	Point	0-9-5		Top	5 lb	14 lb	0 lb	0 lb	J8
	Bearing Length	0-5-8							
18	Point	0-9-5		Top	0 lb	0 lb	2 lb	0 lb	
	Bearing Length	0-5-8							
19	Point	0-9-5		Top	3 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
22	Point	0-9-5		Top	6 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
23	Point	0-9-5		Top	4 lb	12 lb	0 lb	0 lb	J8
	Bearing Length	0-5-8							
24	Point	0-9-5		Top	0 lb	0 lb	1 lb	0 lb	

Continued on page 3...

Notes

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Lumber

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

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

Manufacturer Info

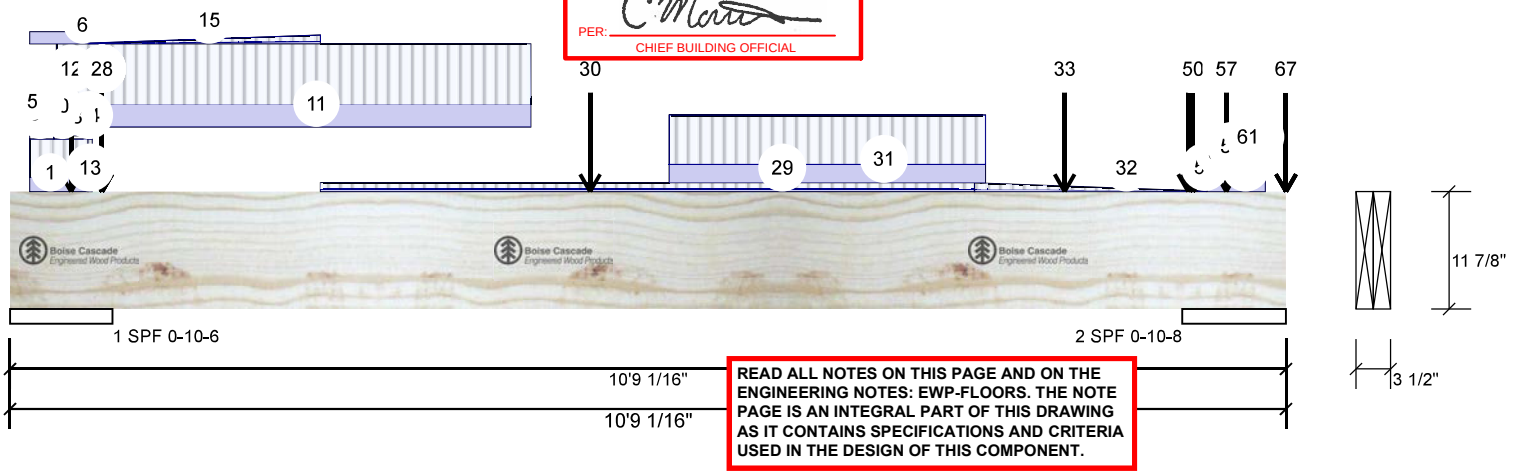
Boise Cascade Wood Products
1111 W. Jefferson St.
Boise, ID 83702
(800) 232-0788
www.bc.com
CCMC: 12472

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

Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F9-A Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Ground Floor



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.

...Continued from page 2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	Bearing Length	0-5-8							
25	Point	0-9-5		Top	3 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
28	Point	0-9-5		Top	5 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
29	Tie-In	2-7-6 to 8-1-9	1-0-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
30	Point	4-10-11		Far Face	142 lb	379 lb	0 lb	0 lb	J4
31	Part. Uniform	5-6-11 to 8-2-11		Far Face	122 PLF	325 PLF	0 PLF	0 PLF	
32	Tie-In	8-1-9 to 10-1-0	1-0-9 to 0-0-14	Top	15 PSF	40 PSF	0 PSF	0 PSF	
33	Point	8-10-11		Far Face	164 lb	438 lb	0 lb	0 lb	J5
34	Point	9-11-3		Far Face	141 lb	377 lb	0 lb	0 lb	J5
35	Point	9-11-11		Top	1 lb	2 lb	0 lb	0 lb	J3
	Bearing Length	0-5-8							
36	Point	9-11-11		Top	1 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
37	Point	9-11-11		Top	6 lb	15 lb	0 lb	0 lb	J3
	Bearing Length	0-5-8							
38	Point	9-11-11		Top	0 lb	0 lb	1 lb	0 lb	
	Bearing Length	0-5-8							
39	Point	9-11-11		Top	3 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
42	Point	9-11-11		Top	10 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
43	Point	9-11-11		Top	336 lb	471 lb	57 lb	0 lb	B3
	Bearing Length	0-5-8							
44	Point	9-11-11		Top	8 lb	20 lb	0 lb	0 lb	J3
	Bearing Length	0-5-8							
45	Point	9-11-11		Top	0 lb	0 lb	4 lb	0 lb	
	Bearing Length	0-5-8							
46	Point	9-11-11		Top	7 lb	0 lb	0 lb	0 lb	Wall Self Weight

Notes

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Lumber

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

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

Manufacturer Info

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www.bc.com
CCMC: 12472

Kott Inc.
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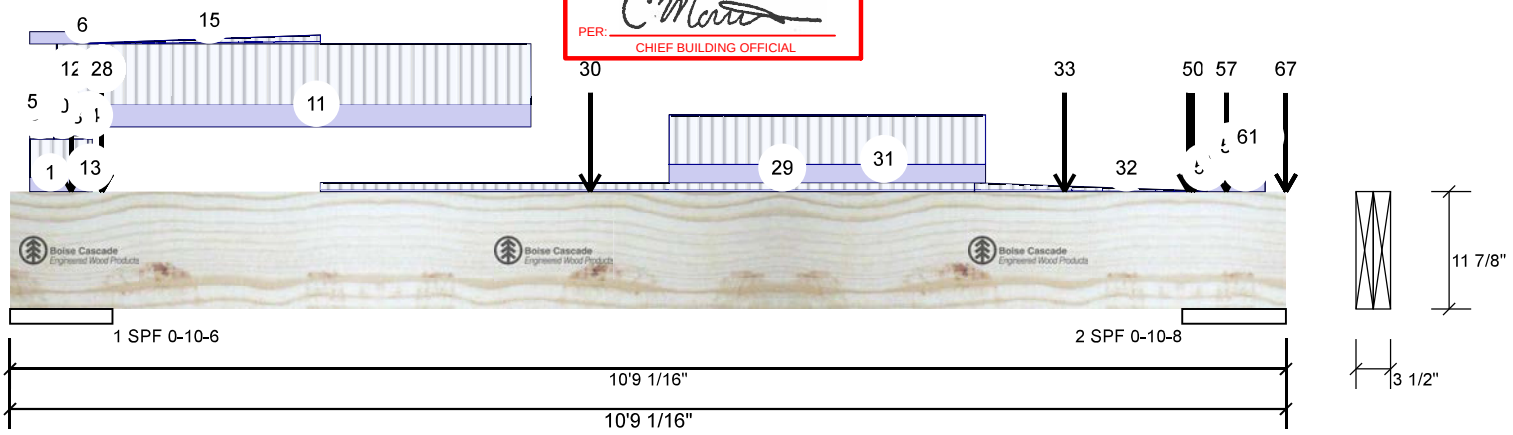
613-838-2775 / 905-642-4400

Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F9-A Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Ground Floor



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	Bearing Length	0-5-8							
50	Point	9-11-11		Top	14 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
51	Part. Uniform	10-0-11 to 10-1-1		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
52	Part. Uniform	10-1-1 to 10-7-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
53	Part. Uniform	10-1-9 to 10-5-0		Top	0 PLF	0 PLF	22 PLF	0 PLF	
54	Part. Uniform	10-1-9 to 10-5-0		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
56	Part. Uniform	10-1-9 to 10-5-0		Top	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
57	Point	10-3-1		Top	498 lb	698 lb	85 lb	0 lb	B3
	Bearing Length	0-5-8							
58	Part. Uniform	10-5-0 to 10-7-0		Top	0 PLF	0 PLF	43 PLF	0 PLF	
59	Part. Uniform	10-5-0 to 10-7-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
60	Tapered Start	10-5-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	
	End	10-7-0			0 PLF	1 PLF	0 PLF	0 PLF	
61	Part. Uniform	10-5-0 to 10-7-0		Top	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
62	Point	10-9-1		Top	2 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
64	Point	10-9-1		Top	1 lb	2 lb	0 lb	0 lb	
	Bearing Length	0-5-8							
66	Point	10-9-1		Top	23 lb	21 lb	13 lb	0 lb	J3
	Bearing Length	0-5-8							
67	Point	10-9-1		Top	5 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
	Self Weight				12 PLF				

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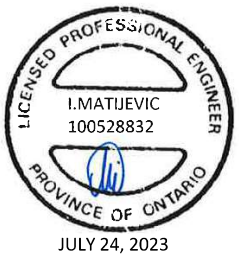

JULY 24, 2023

Notes

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Lumber

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

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

Manufacturer Info

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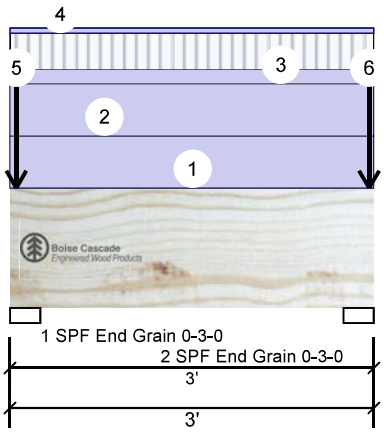
CCMC: 12472

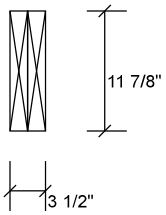
Kott Inc.
3228 Moodie Dr, Ottawa, Ontario
613-838-2775 / 905-642-4400

Client:	GREENPARK	Date:	7/21/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 DC
		Project #:	

FH5 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Ground Floor





Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	121	494	341	0
2	Vertical	72	448	257	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	12%	618 / 633	1250	L	1.25D+1.5S+L
2 - SPF End Grain	3.000"	Vert	10%	560 / 458	1018	L	1.25D+1.5S+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	151 ft-lb	1'6"	23359 ft-lb	0.006 (1%)	1.25D+1.5L	L
Unbraced	151 ft-lb	1'6"	23359 ft-lb	0.006 (1%)	1.25D+1.5L	L
Shear	170 lb	1'2 7/8"	8723 lb	0.019 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/232359)	1'6"	0.088 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/886563)	1'6"	0.088 (L/360)	0.000 (0%)	L+0.5S	L
TL Defl inch	0.000 (L/184106)	1'6"	0.131 (L/240)	0.001 (0%)	D+L+0.5S	L

JULY 24, 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 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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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-0-0		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-0-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Near Face	11 PLF	28 PLF	0 PLF	0 PLF	
	End	3-0-0			11 PLF	28 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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Lumber

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

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

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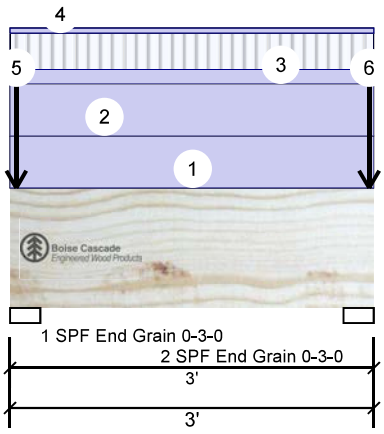
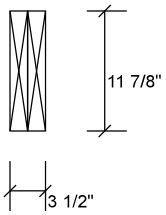
Client:	GREENPARK	Date:	7/21/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 DC
		Project #:	

FH5 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Ground Floor





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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Part. Uniform	0-0-0 to 3-0-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
5	Point	0-0-10		Top	334 lb	79 lb	341 lb	0 lb	Header Column Header Column F1
	Bearing Length	0-3-8							
6	Point	2-11-9		Top	288 lb	30 lb	257 lb	0 lb	Header Column Header Column
	Bearing Length	0-3-8							
	Self Weight				12 PLF				

JULY 24, 2023

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Notes

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Lumber

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2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
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3. Damaged Beams must not be used
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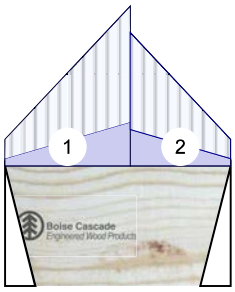
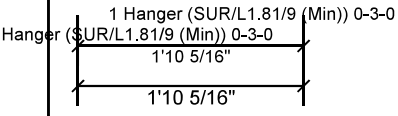
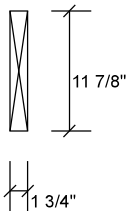
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F11 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" - PASSED

Level: Second Floor







Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	13	10	0	0
2	Vertical	13	10	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	1%	13 / 19	32	L	1.25D+1.5L
2 - Hanger	3.000"	Vert	1%	13 / 19	32	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12 ft-lb	11 3/16"	17696 ft-lb	0.001 (0%)	1.25D+1.5L	L
Unbraced	12 ft-lb	11 3/16"	17696 ft-lb	0.001 (0%)	1.25D+1.5L	L
Shear	8 lb	1'2 7/8"	6608 lb	0.001 (0%)	0.9D+1.5L	L
Perm Defl in.	0.000 (L/3944243)	11 3/16"	0.050 (L/360)	0.000 (0%)	D	Uniform
LL Defl inch	0.000 (L/2791607)	11 3/16"	0.050 (L/360)	0.000 (0%)	L	L
TL Defl inch	0.000 (L/1634653)	11 3/16"	0.074 (L/240)	0.000 (0%)	D+L	L

JULY 24, 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. 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. Top must be continuously laterally braced.
7. Bottom must have sheathing attached or be continuously braced.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-0-6	0-1-4 to 0-7-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	1-0-6 to 1-10-5	0-6-3 to 0-1-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				

Notes

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Lumber

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CCMC: 12472

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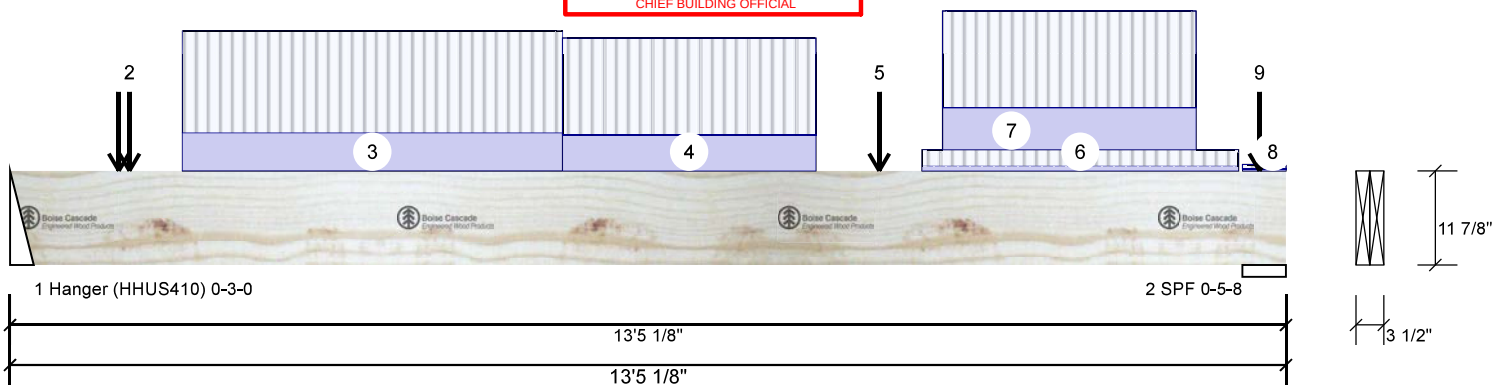
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F12 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1912	806	0	0
2	Vertical	2016	876	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	34%	1007 / 2869	3876	L	1.25D+1.5L
2 - SPF	5.500"	Vert	35%	1096 / 3024	4120	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12902 ft-lb	6'7 1/2"	35392 ft-lb	0.365 (36%)	1.25D+1.5L	L
Unbraced	12902 ft-lb	6'7 1/2"	35392 ft-lb	0.365 (36%)	1.25D+1.5L	L
Shear	4138 lb	1'2 7/8"	13217 lb	0.313 (31%)	1.25D+1.5L	L
Perm Defl in.	0.079 (L/1958)	6'7 9/16"	0.428 (L/360)	0.184 (18%)	D	Uniform
LL Defl inch	0.187 (L/825)	6'7 3/8"	0.428 (L/360)	0.436 (44%)	L	L
TL Defl inch	0.265 (L/580)	6'7 7/16"	0.642 (L/240)	0.413 (41%)	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 24, 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	Point	1-1-12		Near Face	154 lb	411 lb	0 lb	0 lb	J3
2	Point	1-3-1		Far Face	10 lb	13 lb	0 lb	0 lb	F11
3	Part. Uniform	1-9-12 to 5-9-12		Near Face	117 PLF	313 PLF	0 PLF	0 PLF	
4	Part. Uniform	5-9-12 to 8-5-12		Near Face	111 PLF	297 PLF	0 PLF	0 PLF	

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.

Lumber

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

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

Manufacturer Info

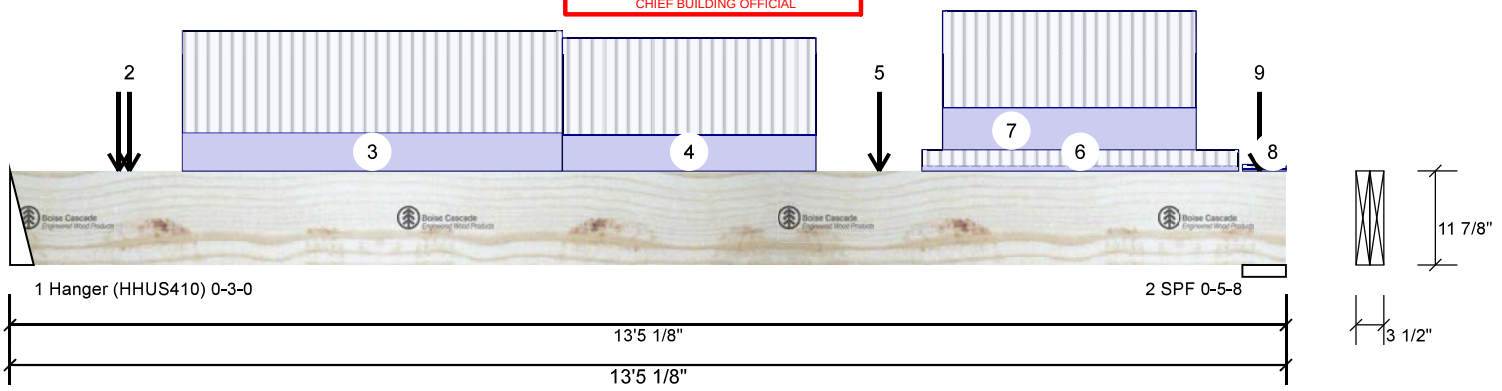
Boise Cascade Wood Products
1111 W. Jefferson St.
Boise, ID 83702
(800) 232-0788
www.bc.com
CCMC: 12472

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

Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F12 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Point	9-1-12		Near Face	156 lb	395 lb	0 lb	0 lb	J3
6	Part. Uniform	9-7-2 to 12-11-2		Top	15 PLF	50 PLF	0 PLF	0 PLF	
7	Part. Uniform	9-9-12 to 12-5-12		Near Face	129 PLF	297 PLF	0 PLF	0 PLF	
8	Tie-In	12-11-10 to 13-5-2	0-4-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
9	Point	13-1-12		Near Face	43 lb	100 lb	0 lb	0 lb	J3
	Self Weight				12 PLF				

JULY 24, 2023

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Notes

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Lumber

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

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

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

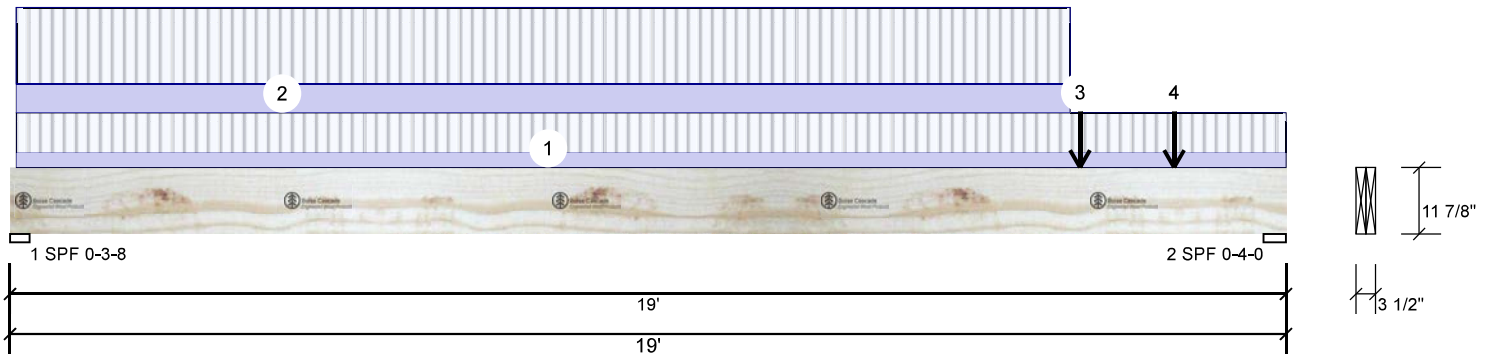
iStructDesign

Client: GREENPARK
Project:
Address: ZADORRA ESTATES OSHAWA ON

Date: 5/15/2023
Input by: W C
Job Name: CAROL 12-1 STD
Project #:

F13 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	653	371	0	0
2	Vertical	1932	917	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	19%	463 / 979	1442	L	1.25D+1.5L
2 - SPF	4.000"	Vert	47%	1147 / 2898	4045	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11075 ft-lb	15'8 13/16"	35392 ft-lb	0.313 (31%)	1.25D+1.5L	L
Unbraced	11075 ft-lb	15'8 13/16"	35392 ft-lb	0.313 (31%)	1.25D+1.5L	L
Shear	4005 lb	17'8 1/8"	13217 lb	0.303 (30%)	1.25D+1.5L	L
Perm Defl in.	0.147 (L/1505)	10'2"	0.617 (L/360)	0.239 (24%)	D	Uniform
LL Defl inch	0.288 (L/770)	10'3 13/16"	0.617 (L/360)	0.467 (47%)	L	L
TL Defl inch	0.436 (L/510)	10'3 1/4"	0.925 (L/240)	0.471 (47%)	D+L	L

JULY 24, 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 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 15'11 3/16" o.c.
7 Lateral slenderness ratio based on full section width.

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-1-2 to 19-0-0	0-4-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-1-2 to 15-9-7	0-7-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	15-11-3		Near Face	806 lb	1912 lb	0 lb	0 lb	F12
4	Point	17-4-0		Near Face	10 lb	13 lb	0 lb	0 lb	F11
	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.

Lumber

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

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

Manufacturer Info

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

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3228 Moodie Dr, Ottawa, Ontario
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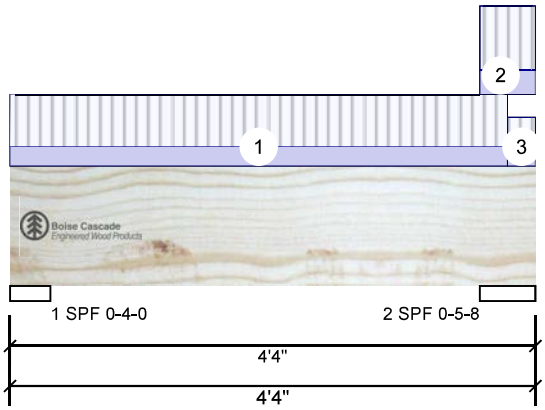
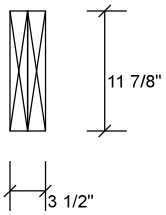
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F7 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor





Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	22	33	0	0
2	Vertical	28	37	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	4.000"	Vert	1%	41 / 33	74	L	1.25D+1.5L
2 - SPF	5.500"	Vert	1%	46 / 43	89	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	59 ft-lb	2'1 1/4"	32915 ft-lb	0.002 (0%)	1.25D+1.5L	L
Unbraced	59 ft-lb	2'1 1/4"	32915 ft-lb	0.002 (0%)	1.25D+1.5L	L
Shear	34 lb	1'3 7/8"	8591 lb	0.004 (0%)	1.4D	Uniform
Perm Defl in.	0.000 (L/634058)	2'1 1/4"	0.122 (L/360)	0.001 (0%)	D	Uniform
LL Defl inch	0.000 (L/956795)	2'1 1/4"	0.122 (L/360)	0.000 (0%)	L	L
TL Defl inch	0.000 (L/381345)	2'1 1/4"	0.183 (L/240)	0.001 (0%)	D+L	L

Design Notes

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

JULY 24, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 4-1-4	0-3-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	3-10-8 to 4-4-0	0-3-14	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	4-1-4 to 4-4-0	0-2-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				12 PLF				

Notes

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Lumber

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

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

Manufacturer Info

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CCMC: 12472

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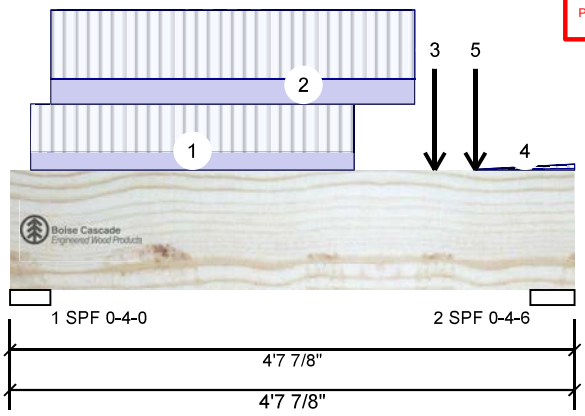
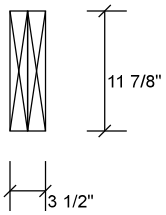
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F7-A Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor





Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF
Dead:	15 PSF

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1376	543	0	0
2	Vertical	1281	508	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	4.000"	Vert	32%	679 / 2064	2743	L	1.25D+1.5L
2 - SPF	4.375"	Vert	27%	634 / 1922	2557	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2773 ft-lb	2'3 9/16"	35392 ft-lb	0.078 (8%)	1.25D+1.5L	L
Unbraced	2773 ft-lb	2'3 9/16"	35392 ft-lb	0.078 (8%)	1.25D+1.5L	L
Shear	3769 lb	3'3 5/8"	13217 lb	0.285 (29%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/28011)	2'3 13/16"	0.136 (L/360)	0.013 (1%)	D	Uniform
LL Defl inch	0.004 (L/10984)	2'3 13/16"	0.136 (L/360)	0.033 (3%)	L	L
TL Defl inch	0.006 (L/7890)	2'3 13/16"	0.204 (L/240)	0.030 (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.

JULY 24, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-2-1 to 2-10-1		Far Face	105 PLF	279 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-4-1 to 3-4-1		Near Face	149 PLF	399 PLF	0 PLF	0 PLF	
3	Point	3-6-1		Far Face	137 lb	366 lb	0 lb	0 lb	J3
4	Tie-In	3-10-1 to 4-7-14	0-0-14 to 0-7-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	

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.

Lumber

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

Handling & Installation

1. LVL 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

This design is valid until 4/17/2026

Manufacturer Info

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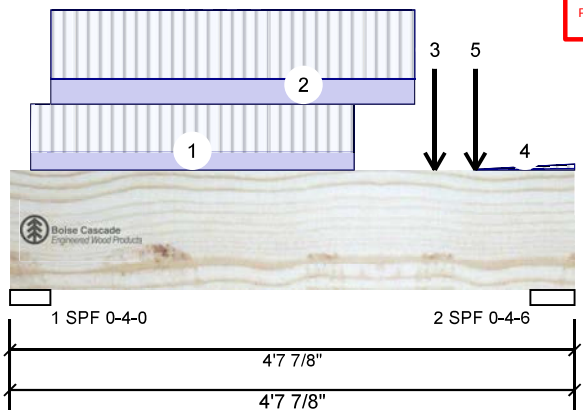
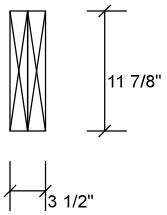
		Project #:	

F7-A Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor





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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Point	3-10-1		Near Face	127 lb	339 lb	0 lb	0 lb	J8
	Self Weight				12 PLF				

JULY 24, 2023

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Notes

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Lumber

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

Handling & Installation

1. LVL 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
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6. For flat roofs provide proper drainage to prevent ponding

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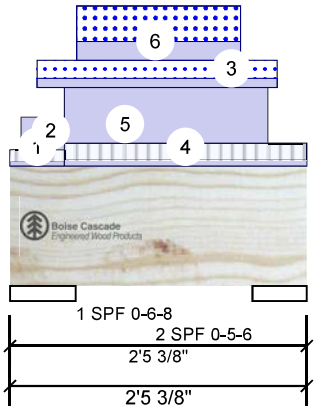
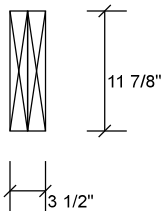
Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F8 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor





Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	27	141	64	0
2	Vertical	28	122	57	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	6.500"	Vert	2%	176 / 104	280	L	1.25D+1.5L +S
2 - SPF	5.375"	Vert	3%	153 / 99	251	L	1.25D+1.5L +S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	98 ft-lb	1'3 3/16"	31145 ft-lb	0.003 (0%)	1.25D+1.5S +L	L
Unbraced	98 ft-lb	1'3 3/16"	31145 ft-lb	0.003 (0%)	1.25D+1.5S +L	L
Shear	68 lb	1'6 3/8"	11631 lb	0.006 (1%)	1.25D+1.5S +L	L
Perm Defl in.	0.000 (L/615494)	1'3 3/16"	0.053 (L/360)	0.001 (0%)	D	Uniform
LL Defl inch	0.000 (L/985102)	1'3 3/16"	0.053 (L/360)	0.000 (0%)	S+0.5L	L
TL Defl inch	0.000 (L/378811)	1'3 3/16"	0.079 (L/240)	0.001 (0%)	D+S+0.5L	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
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JULY 24, 2023

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Lumber

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Handling & Installation

1. LVL beams must not be cut or drilled
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6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

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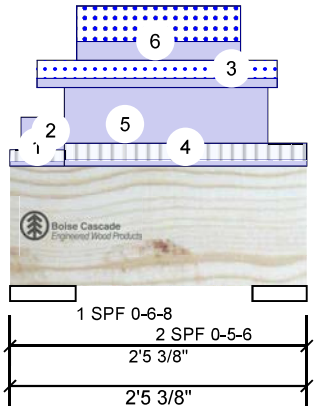
1111 W. Jefferson St.
Boise, ID 83702
(800) 232-0788
www.bc.com
CCMC: 12472

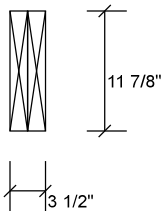
Kott Inc.
3228 Moodie Dr, Ottawa, Ontario
613-838-2775 / 905-642-4400

Client:	GREENPARK	Date:	5/15/2023
Project:		Input by:	W C
Address:	ZADORRA ESTATES OSHAWA ON	Job Name:	CAROL 12-1 STD
		Project #:	

F8 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-5-6	0-5-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-1-2 to 0-5-6		Top	47 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-2-11 to 2-2-7		Top	13 PLF	0 PLF	26 PLF	0 PLF	
4	Tie-In	0-5-6 to 2-5-6	0-7-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
5	Part. Uniform	0-5-6 to 2-1-8		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Part. Uniform	0-6-10 to 1-10-13		Top	27 PLF	0 PLF	51 PLF	0 PLF	
	Self Weight				12 PLF				

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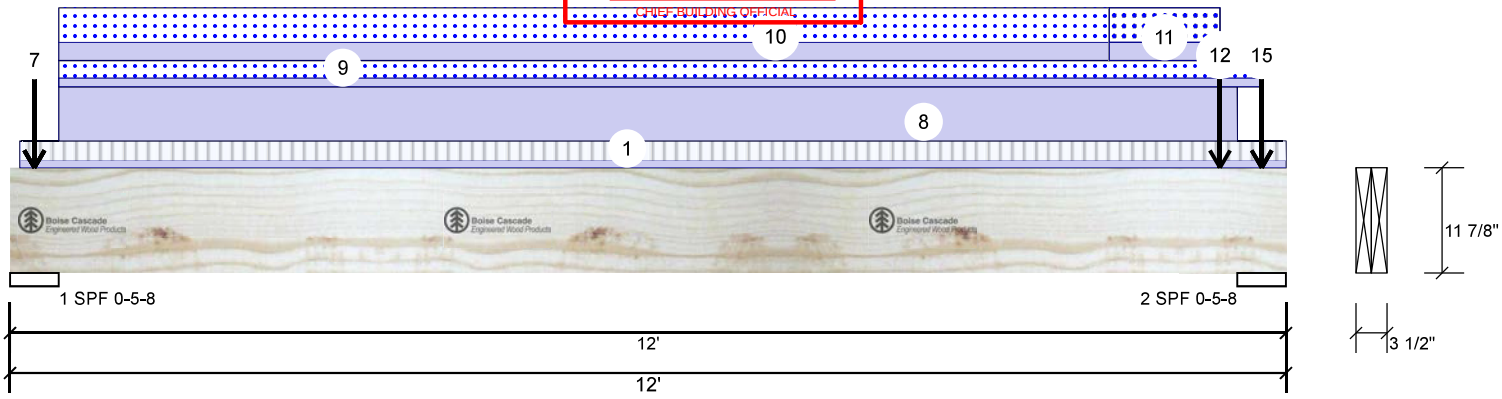
		Project #:	

F9 Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	170	943	583	0
2	Vertical	173	1406	1456	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.501"	Vert	19%	1178 / 838	2017	L	1.25D+1.5L +S
2 - SPF	5.500"	Vert	35%	1758 / 2357	4115	L	1.25D+1.5S +L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4891 ft-lb	6'1 7/16"	31145 ft-lb	0.157 (16%)	1.25D+1.5L +S	L
Unbraced	4891 ft-lb	6'1 7/16"	31145 ft-lb	0.157 (16%)	1.25D+1.5L +S	L
Shear	1633 lb	10'6 5/8"	11631 lb	0.140 (14%)	1.25D+1.5L +S	L
Perm Defl in.	0.052 (L/2599)	6' 5/16"	0.374 (L/360)	0.138 (14%)	D	Uniform
LL Defl inch	0.035 (L/3825)	6' 7/8"	0.374 (L/360)	0.094 (9%)	S+0.5L	L
TL Defl inch	0.087 (L/1548)	6' 9/16"	0.560 (L/240)	0.155 (16%)	D+S+0.5L	L

Design Notes

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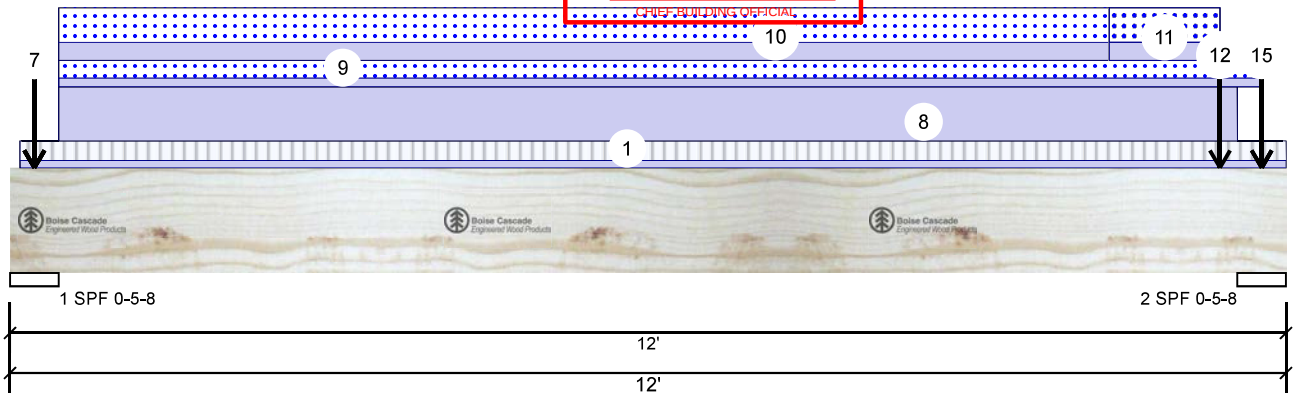

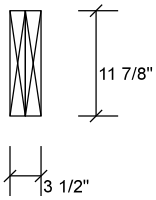

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2	Point	0-2-12		Top	24 lb	0 lb	46 lb	0 lb	
	Bearing Length	0-5-8							
3	Point	0-2-12		Top	21 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
4	Point	0-2-12		Top	24 lb	0 lb	46 lb	0 lb	
	Bearing Length	0-5-8							
5	Point	0-2-12		Top	20 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
6	Point	0-2-12		Top	23 lb	0 lb	43 lb	0 lb	
	Bearing Length	0-5-8							
7	Point	0-2-12		Top	19 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
8	Part. Uniform	0-5-8 to 11-6-8		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Part. Uniform	0-5-8 to 11-9-0		Top	13 PLF	0 PLF	26 PLF	0 PLF	
10	Part. Uniform	0-5-8 to 10-4-1		Top	27 PLF	0 PLF	51 PLF	0 PLF	
11	Part. Uniform	10-4-1 to 11-4-9		Top	27 PLF	0 PLF	51 PLF	0 PLF	
12	Point	11-4-9		Top	599 lb	0 lb	1053 lb	0 lb	F16
	Bearing Length	0-5-8							
13	Point	11-9-4		Top	6 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
14	Point	11-9-4		Top	13 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
15	Point	11-9-4		Top	1 lb	0 lb	0 lb	0 lb	Wall Self W
	Bearing Length	0-5-8							
	Self Weight				12 PLF				

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