

PLEASE READ ALL NOTES PRIOR TO INSTALLATION OF THE COMPONENT

### RESPONSIBILITIES

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

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

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

### COMPONENT DESIGN INFORMATION

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

### CODE

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

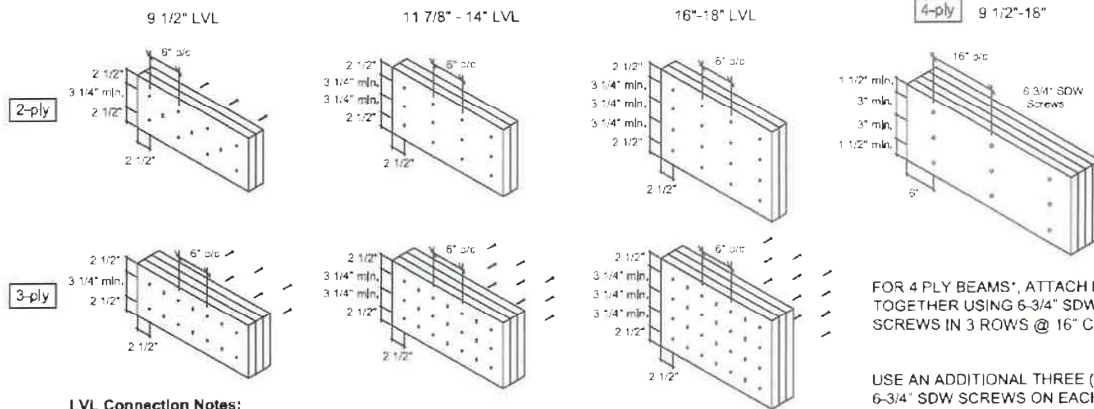
### HANDLING AND INSTALLATION

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

## MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS



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



#### LVL Connection Notes:

- LVL ply width is 1-3/4"
- Nails to be 3 1/2" common wire nails.
- Nails to be located 2 1/2" min. from the top and bottom of the member. Start all nails 2 1/2" min. from ends.
- Minimum 3 1/4" spacing between rows.
- Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nail driven from the opposite side.
- Head of all specified screws must be on the loaded side.

FOR 4 PLY BEAMS\*, ATTACH PLIES TOGETHER USING 6-3/4" SDW SCREWS IN 3 ROWS @ 16" C/C.

USE AN ADDITIONAL THREE (3) 6-3/4" SDW SCREWS ON EACH SIDE (OF EACH FACE) AT POINT LOAD LOCATIONS @ 1/2 SPACING, WHERE APPLICABLE.

\*UNLESS NOTED OTHERWISE ON LAYOUT OR CALCULATION SHEET OF BEAM IN THE FLOOR PACKAGE

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

#### Installation Guide



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

Last Revised January 13, 2023

This placement plan is to be used as an installation guide only. It is meant to be used in conjunction with the manufacturers installation guide, the architectural and structural drawings, and not to replace them.

Ground Floor



ENG-M0721-86-KT-GREENPARK-ZADORRA ESTATES-ROSE 6-3

1. All blocking to be cut from 12" joists
2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
3. Ends of joists to be laterally supported
4. Packing of Steel beams and attachment by others
5. Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations
6. Beams identified as "1B" are dropped and supplied by others
7. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
8. Load transfer blocks to be installed under all point loads
9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements
10. Hangers and Fasteners to be installed as per manufacturer
11. Framing shown on this layout may deviate from architectural drawings. Arch / Eng to review and approve the deviation prior to construction.
12. Multi ply beams with side loading to have all fasteners installed with the head on the side of the applied load
13. Confirmation of adequate support & anchorage of components is the responsibility of the building designer; suggested uplift connectors are as shown
14. Where beam hangs on side of 3-ply member, it is recommended that the equivalent quantity and size of nails required for the hanger attachment also be installed on opposite side of the 3-ply member

Ground Floor  
LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Pies	Pcs	Length
F10	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	16-0
F9	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	2	2	4	14-0
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	2	2	4	12-0
F7	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	2	2	4	10-0
F6	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	3	2	6	4-0
F5	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	4-0

Joist (Flush)

Label	Description	Width	Depth	Pcs	Length
F5	AJS 140	2.5	11.875	2	16-0
F4	AJS 140	2.5	11.875	3	14-0
F2	AJS 140	2.5	11.875	1	6-0
F1	AJS 140	2.5	11.875	1	4-0
J6	AJS 140	2.5	11.875	45	16-0
J5	AJS 140	2.5	11.875	7	14-0
J4	AJS 140	2.5	11.875	6	12-0
J3	AJS 140	2.5	11.875	2	10-0
J2	AJS 140	2.5	11.875	3	8-0
J1	AJS 140	2.5	11.875	1	6-0

Rim Board

Label	Description	Width	Depth	Pcs	Length
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875	15	12-0

Blocking

Label	Description	Width	Depth	Qty	Pcs	Length
BLK1	AJS 140	2.5	11.875	Ln/Ft	Varies	46-0

Hanger

Label	Pcs	Description	Beam/Girder fasteners	Supported Member fasteners
H1	22	F2811	12 10x1 1/2	1 #8x1 1/4WS
H2	1	HHUS410	30 16d	10 16d
H3	2	HUC410 (Min)	14 16d	6 10d
H4	5	LF3511	12 10d	2 #8x1 1/4WS

JOB INFORMATION

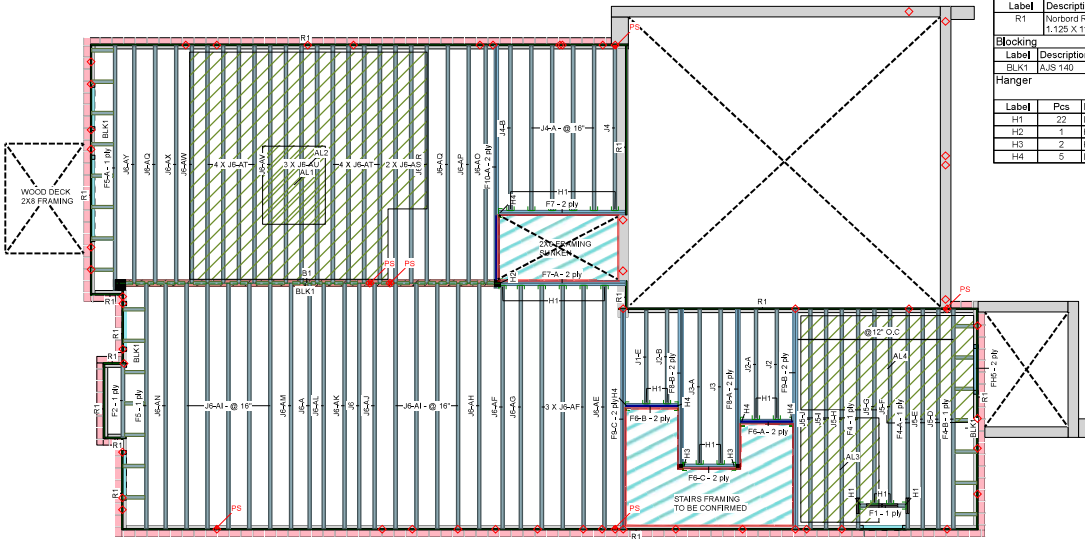
<b>Builder</b> GREENPARK
<b>Project</b> ZADORRA ESTATES OSHAWA, ON
<b>Sales Rep</b> RALPH MIRIGELLO
<b>Designer</b> W.C.
<b>Plotted</b> July 13, 2023
<b>Layout Name</b> ROSE 6-3 WOC
<b>Job Path</b> S:\CUSTOMERS\GREENPARK\ZADORRA ESTATES MODELS\ROSE 6-3\WOC-ROSE 6-3\WOC-ROSE 6-3 WOC.dwg

DESIGN CRITERIA

<b>Ground Floor</b>	LSD (Canada)
<b>Design Method</b>	NBCC 2015
<b>Bulking Code</b>	OBC 2012(2020 Update)
<b>Floor Loads</b>	
Live	40
Dead	15
<b>Deflection Joist</b>	
LL Span / L	360
TL Span / L	240
<b>Deflection Flush Girder</b>	
LL Span / L	360
TL Span / L	240
<b>Deflection Dropped Girder</b>	
LL Span / L	360
TL Span / L	240
<b>Deflection Header</b>	
LL Span / L	360
TL Span / L	240
<b>Decking</b>	
Decking	OSB
Thickness	3/4"
Fastener	Nailed & Glued

CCMC References

Boise - 12472-R, 12787-R
LP - 12412-R, Roseburg - 13310-R
Forex - 14035-R
<b>Kott Inc.</b>
3228 Wood Dr. Ottawa
14 Anderson Blvd. Unbridge
Ontario
613-838-2775 /
905-642-4400



Hatch Area represents where additional load has been applied. (e.g. 5 psf for ceramic tile)

Legend

PS	Point Load Support
◇	Load from Above
▨	Wall
▧	Wall Opening
▩	Norbord Rimboard Plus 1.125 X 11.875
▪	AJS 140 11.875
▫	Versa-Lam LVL 2.1E 3100 SP 1.75 X 11.875
▬	1.75 X 9.5 (Dropped)
▭	5.25 X 8 (Dropped)



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Oct 30 2023

Client: GREENPARK  
Project:  
Address: ZADORRA ESTATES  
OSHAWA, ON

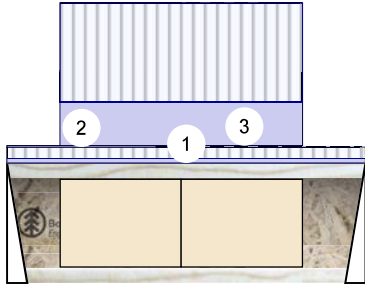
Date: 7/13/2023  
Input by: W C  
Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

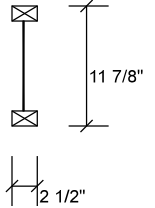
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F1 AUS 140 11.875" - PASSED

Level: Ground Floor



1 Hanger (LF2511) 0-2-0  
2 Hanger (LF2511) 0-2-0  
2'11 1/2"  
2'11 1/2"



## 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	310	138	0	0
2	Vertical	295	128	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	40%	173 / 465	638	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	38%	160 / 443	603	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	520 ft-lb	1'5 5/8"	5305 ft-lb	0.098 (10%)	1.25D+1.5L	L
Unbraced	520 ft-lb	1'5 5/8"	5305 ft-lb	0.098 (10%)	1.25D+1.5L	L
Shear	631 lb	1 1/4"	2350 lb	0.269 (27%)	1.25D+1.5L	L
Perm Defl in. (L/15681)	0.002	1'5 9/16"	0.092 (L/360)	0.023 (2%)	D	Uniform
LL Defl inch	0.005 (L/6891)	1'5 11/16"	0.092 (L/360)	0.052 (5%)	L	L
TL Defl inch	0.007 (L/4787)	1'5 5/8"	0.137 (L/240)	0.050 (5%)	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.
- Fill all hanger nailing holes.
- Left Header: SPF, Thickness: 2 1/2"
- Right Header: SPF, Thickness: 2 1/2"
- Girders are designed to be supported on the bottom edge only.
- If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 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 2-11-8	0-9-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 1-2-12		Top	4 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-5-4 to 2-5-4		Far Face	114 PLF	258 PLF	0 PLF	0 PLF	

## Notes

Calculated Structural 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

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

chemicals

## Handling &amp; Installation

- Joist flanges must not be cut or drilled
- Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
- Damaged Joists must not be used
- 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

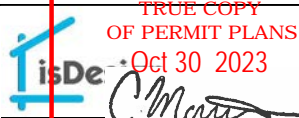
Boise Cascade Wood Products  
1111 W. Jefferson St.  
Boise, ID 83702  
(800) 232-0788  
www.bc.com  
CCMC: 12787

## Kott Inc.

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



This design is valid until 4/17/2026



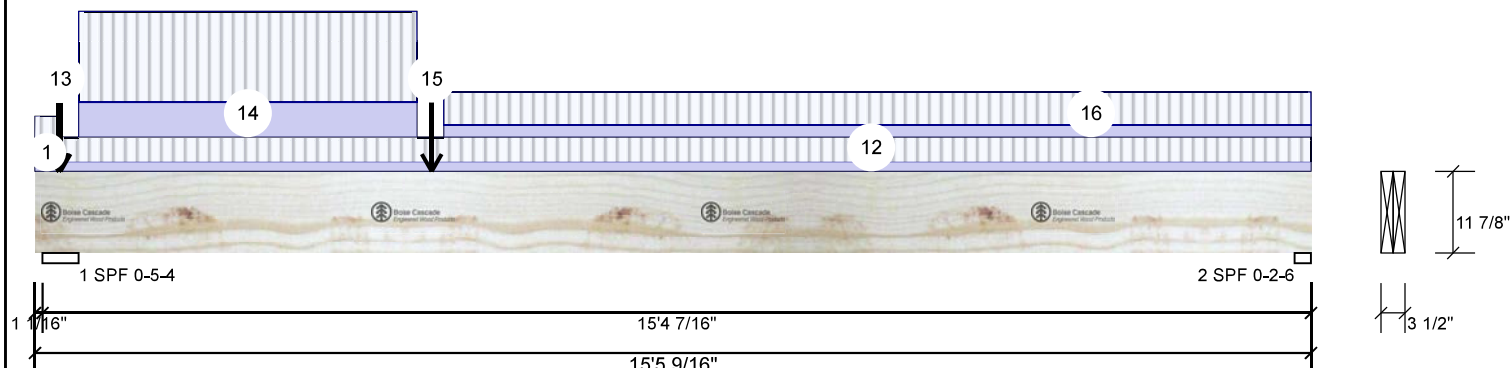
Client: GREENPARK  
Project:  
Address: ZADORRA ESTATES  
OSHAWA, ON

Date: 7/13/2023  
Input by: W C  
Job Name: ROSE 6-3 STD  
Project #:

**MHP 23030**

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**F10-A** **Versa-Lam LVL 21E 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	5014	2332	0	0
2	Vertical	485	286	0	0

**Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	92%	2915 / 7521	10435	LL	1.25D+1.5L
2 - SPF	2.375"	Vert	21%	358 / 728	1086	_L	1.25D+1.5L

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7041 ft-lb	4'9 11/16"	35392 ft-lb	0.199 (20%)	1.25D+1.5L	_L
Unbraced	7041 ft-lb	4'9 11/16"	35392 ft-lb	0.199 (20%)	1.25D+1.5L	_L
Shear	1726 lb	1'6 3/16"	13217 lb	0.131 (13%)	1.25D+1.5L	LL
Perm Defl in.	0.060 (L/2990)	7'4 7/16"	0.501 (L/360)	0.120 (12%)	D	Uniform
LL Defl inch	0.113 (L/1588)	7'3 1/4"	0.501 (L/360)	0.227 (23%)	L	_L
TL Defl inch	0.174 (L/1037)	7'3 11/16"	0.751 (L/240)	0.231 (23%)	D+L	_L
LL Cant	-0.002 (2L/916)	Lt Cant	0.200 (2L/360)	0.012 (1%)	L	_L
TL Cant	-0.004 (2L/602)	Lt Cant	0.300 (2L/240)	0.012 (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 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at a maximum of 10'7 7/8" o.c.
- 8 Lateral slenderness ratio based on full section width.

**Notes**

Calculated Structural 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

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

**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



This design is valid until 4/17/2026



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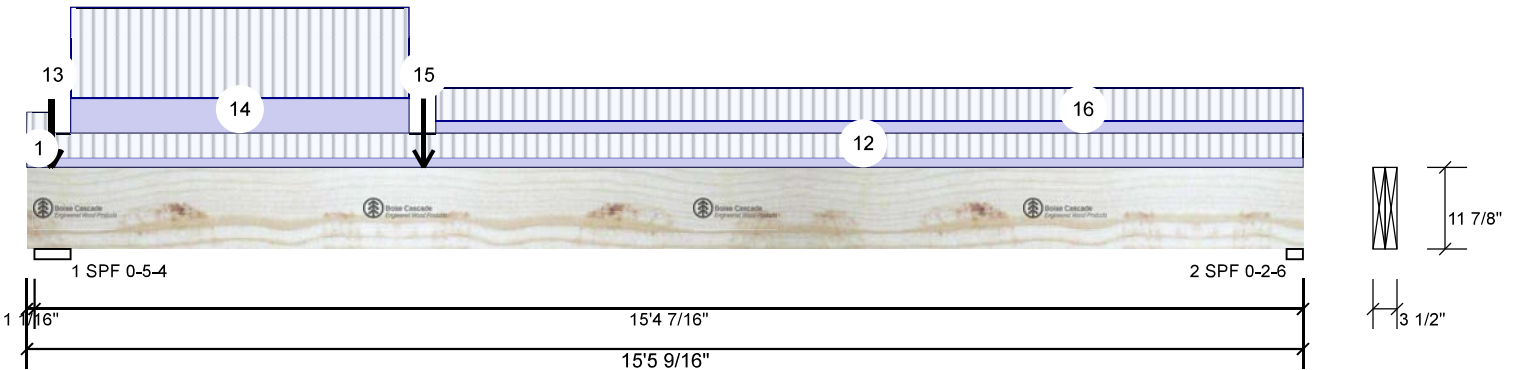
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Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

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F10-A Versa-Lam LVL 21E 3100 SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-3-11	0-6-10	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-3-8		Top	522 lb	1267 lb	0 lb	0 lb	F11
	Bearing Length	0-5-8							
3	Point	0-3-8		Top	8 lb	20 lb	0 lb	0 lb	J6
	Bearing Length	0-5-8							
4	Point	0-3-8		Top	5 lb	13 lb	0 lb	0 lb	J6
	Bearing Length	0-5-8							
5	Point	0-3-8		Top	7 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
6	Point	0-3-8		Top	13 lb	32 lb	0 lb	0 lb	J6
	Bearing Length	0-5-8							
7	Point	0-3-8		Top	8 lb	21 lb	0 lb	0 lb	J6
	Bearing Length	0-5-8							
8	Point	0-3-8		Top	11 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
9	Point	0-3-8		Top	5 lb	12 lb	0 lb	0 lb	J6
	Bearing Length	0-5-8							
10	Point	0-3-8		Top	3 lb	8 lb	0 lb	0 lb	J6
	Bearing Length	0-5-8							
11	Point	0-3-8		Top	4 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-5-8							
12	Tie-In	0-3-11 to 15-5-9	0-4-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
13	Point	0-3-11		Near Face	1292 lb	2767 lb	0 lb	0 lb	F7
14	Part. Uniform	0-6-5 to 4-7-9		Top	19 PLF	50 PLF	0 PLF	0 PLF	
15	Point	4-9-11		Near Face	328 lb	751 lb	0 lb	0 lb	F7
16	Tie-In	4-11-7 to 15-5-9	0-5-6	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

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  
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CCMC: 12472

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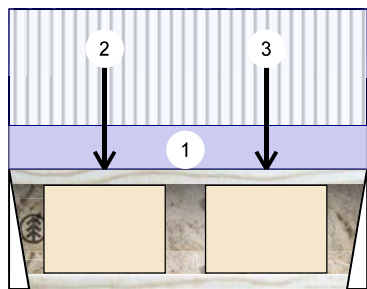
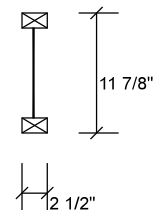
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Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

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F1-A PERMITS DIVISION OFFICIAL: **AJS 140 11 875" - PASSED**

Level: Ground Floor

1 Hanger (LF2511) 0-2-0  
2 Hanger (LF2511) 0-2-0  
2'11 7/16"  
2'11 7/16"

## 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	364	136	0	0
2	Vertical	357	134	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	45%	171 / 545	716	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	44%	167 / 535	702	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	496 ft-lb	1'8 1/4"	5305 ft-lb	0.094 (9%)	1.25D+1.5L	L
Unbraced	496 ft-lb	1'8 1/4"	5305 ft-lb	0.094 (9%)	1.25D+1.5L	L
Shear	710 lb	1 1/4"	2350 lb	0.302 (30%)	1.25D+1.5L	L
Perm Defl in. (L/18136)	0.002	1'6 3/8"	0.092 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.005 (L/6794)	1'6 3/8"	0.092 (L/360)	0.053 (5%)	L	L
TL Defl inch	0.007 (L/4942)	1'6 3/8"	0.137 (L/240)	0.049 (5%)	D+L	L



JULY 14, 2023

## 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.
- Fill all hanger nailing holes.
- Left Header: SPF, Thickness: 2 1/2"
- Right Header: SPF, Thickness: 2 1/2"
- Girders are designed to be supported on the bottom edge only.
- If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-11-7	0-9-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-9-7		Far Face	117 lb	312 lb	0 lb	0 lb	J6
3	Point	2-1-7		Far Face	119 lb	318 lb	0 lb	0 lb	J6

## Notes

Calculated Structural 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

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

chemicals

## Handling &amp; Installation

- Joist flanges must not be cut or drilled
- Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
- Damaged Joists must not be used
- 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

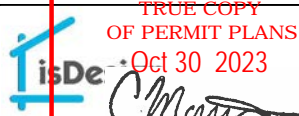
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Project:  
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OSHAWA, ON

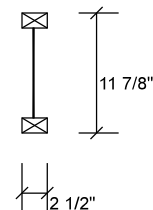
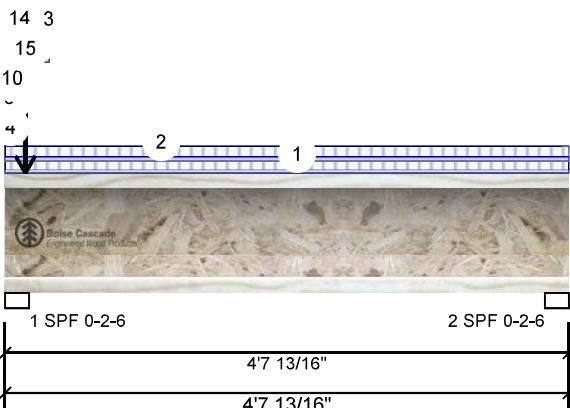
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Project #:

MHP 23030

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F2 AUS 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	172	569	487	0
2	Vertical	126	48	0	0

### Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	96%	711 / 902	1613	L	1.25D+1.5S +L
2 - SPF	2.375"	Vert	18%	60 / 189	249	L	1.25D+1.5L

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	258 ft-lb	2'3 13/16"	4456 ft-lb	0.058 (6%)	1.25D+1.5L	L
Unbraced	258 ft-lb	2'3 13/16"	4456 ft-lb	0.058 (6%)	1.25D+1.5L	L
Shear	272 lb	1 5/8"	1974 lb	0.138 (14%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/40556)	2'3 9/16"	0.146 (L/360)	0.009 (1%)	D	Uniform
LL Defl inch	0.003 (L/15754)	2'3 7/8"	0.146 (L/360)	0.023 (2%)	L+0.5S	L
TL Defl inch	0.005 (L/11347)	2'3 13/16"	0.219 (L/240)	0.021 (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.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 4-7-13	0-7-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 4-7-13	0-9-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Part. Uniform	0-0-0 to 0-1-2		Top	15 PLF	0 PLF	40 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 0-1-2		Top	20 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Tapered Start	0-0-0		Top	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. Joist not to be treated with fire retardant or corrosive

### chemicals

### Handling & Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists 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

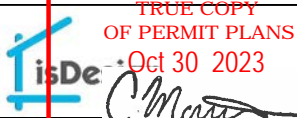
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### Manufacturer Info

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CCMC: 12787

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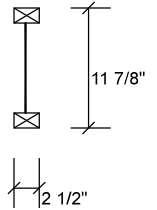
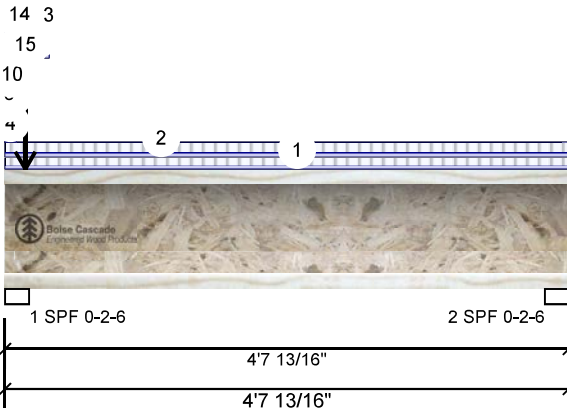
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F2 AUS 140 11.875" - PASSED

Level: Ground Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	End	0-1-2			2 PLF	5 PLF	0 PLF	0 PLF	
7	Part. Uniform	0-0-0 to 0-1-2		Top	1 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
8	Part. Uniform	0-0-0 to 0-1-2		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
10	Part. Uniform	0-0-0 to 0-0-14		Top	30 PLF	0 PLF	80 PLF	0 PLF	
11	Part. Uniform	0-0-0 to 0-4-6		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
12	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	
13	Part. Uniform	0-0-0 to 0-4-6		Top	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
14	Part. Uniform	0-0-0 to 0-4-6		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
15	Point	0-2-0		Top	467 lb	42 lb	477 lb	0 lb	B2 Header Column
	Bearing Length	0-1-8							



JULY 14, 2023

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**Lumber**

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

**chemicals****Handling & Installation**

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists 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

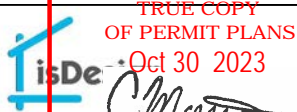
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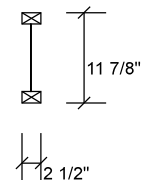
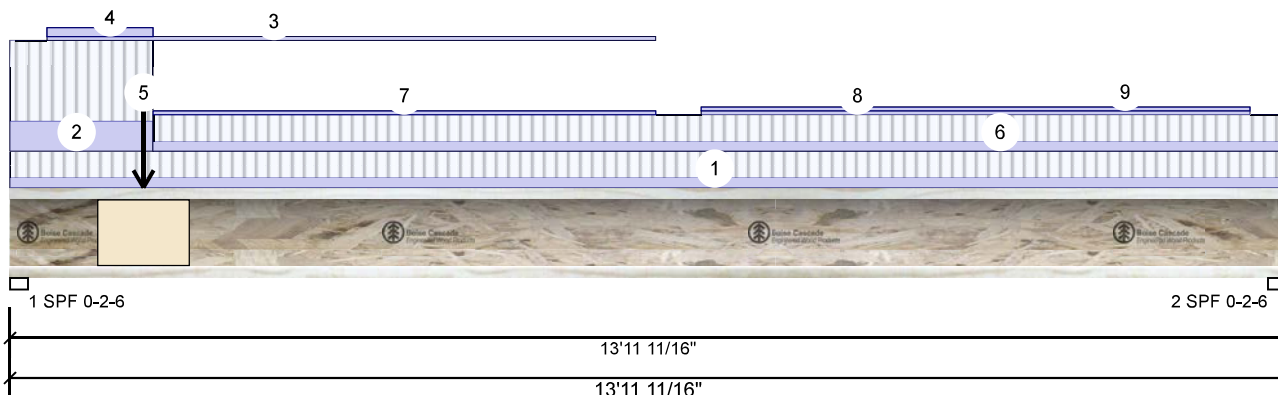
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Project #:

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F4 AUS 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	634	300	0	0
2	Vertical	324	162	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	79%	375 / 952	1327	L	1.25D+1.5L
2 - SPF	2.375"	Vert	41%	203 / 486	689	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2585 ft-lb	6'2 7/16"	5305 ft-lb	0.487 (49%)	1.25D+1.5L	L
Unbraced	2585 ft-lb	6'2 7/16"	5305 ft-lb	0.487 (49%)	1.25D+1.5L	L
Shear	1304 lb	1 5/8"	2350 lb	0.555 (56%)	1.25D+1.5L	L
Perm Defl in.	0.076 (L/2158)	6'9"	0.457 (L/360)	0.167 (17%)	D	Uniform
LL Defl inch	0.153 (L/1072)	6'8 13/16"	0.457 (L/360)	0.336 (34%)	L	
TL Defl inch	0.230 (L/716)	6'8 7/8"	0.685 (L/240)	0.335 (34%)	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 12'6 1/8" o.c.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 13-11-11	0-6-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-6-13	1-7-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-4-14 to 7-0-14		Top	3 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-4-14 to 1-6-13		Top	7 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-5-9		Near Face	138 lb	310 lb	0 lb	0 lb	F1
6	Tie-In	1-6-13 to 13-11-11	0-6-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	1-6-13 to 7-0-14		Top	3 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

## Notes

Calculated Structural 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. Joist not to be treated with fire retardant or corrosive

## chemicals

## Handling &amp; Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists 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

## Manufacturer Info

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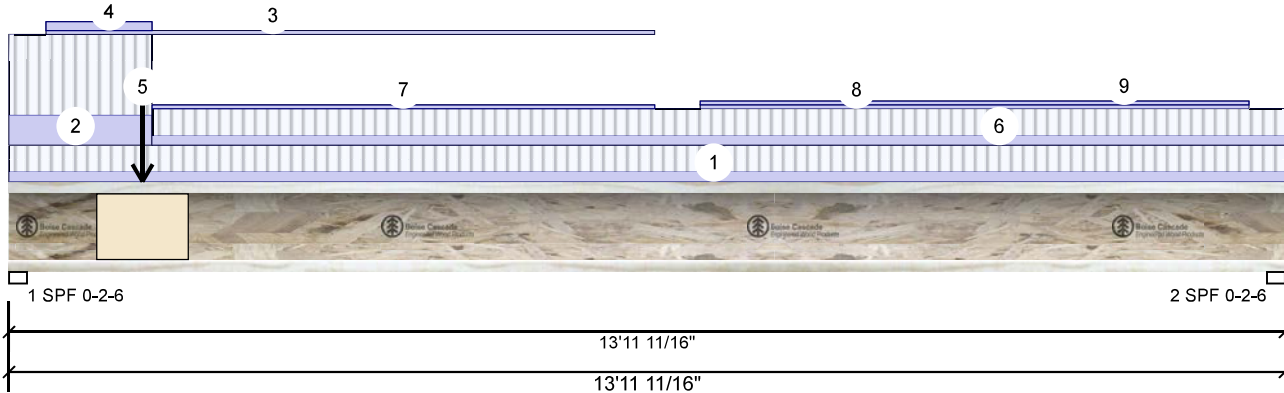
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F4 AUS 140 11.875" - PASSED

Level: Ground Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
8	Part. Uniform	7-6-13 to 13-6-15		Top	3 PLF	0 PLF	0 PLF	0 PLF	
9	Part. Uniform	7-6-13 to 13-7-0		Top	3 PLF	0 PLF	0 PLF	0 PLF	



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#### Notes

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#### Lumber

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

chemicals

#### Handling & Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists 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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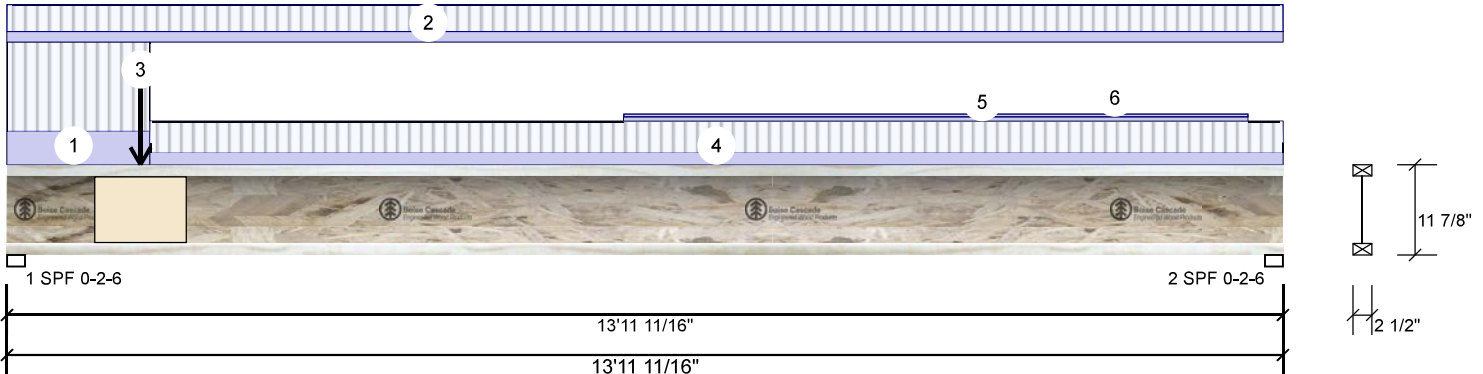
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F4-A PERMIT OFFICIAL: **AJS 140 11 875" - PASSED**

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	618	257	0	0
2	Vertical	323	148	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	74%	321 / 928	1249	L	1.25D+1.5L
2 - SPF	2.375"	Vert	40%	185 / 484	669	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2462 ft-lb	6'4 1/8"	5305 ft-lb	0.464 (46%)	1.25D+1.5L	L
Unbraced	2462 ft-lb	6'4 1/8"	5305 ft-lb	0.464 (46%)	1.25D+1.5L	L
Shear	1227 lb	1 5/8"	2350 lb	0.522 (52%)	1.25D+1.5L	L
Perm Defl in.	0.066 (L/2485)	6'10 1/8"	0.457 (L/360)	0.145 (14%)	D	Uniform
LL Defl inch	0.152 (L/1083)	6'8 15/16"	0.457 (L/360)	0.332 (33%)	L	
TL Defl inch	0.218 (L/754)	6'9 5/16"	0.685 (L/240)	0.318 (32%)	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 12'6 1/8" o.c.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-6-13	1-7-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 13-11-11	0-5-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-9		Far Face	128 lb	295 lb	0 lb	0 lb	F1
4	Tie-In	1-6-13 to 13-11-11	0-6-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
5	Part. Uniform	6-9-0 to 13-7-1		Top	3 PLF	0 PLF	0 PLF	0 PLF	
6	Part. Uniform	6-9-1 to 13-7-2		Top	2 PLF	0 PLF	0 PLF	0 PLF	

## Notes

Calculated Structural 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. Joist not to be treated with fire retardant or corrosive

## chemicals

## Handling &amp; Installation

1. Joist flanges must not be cut or drilled
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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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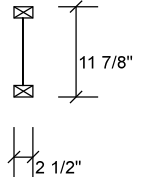
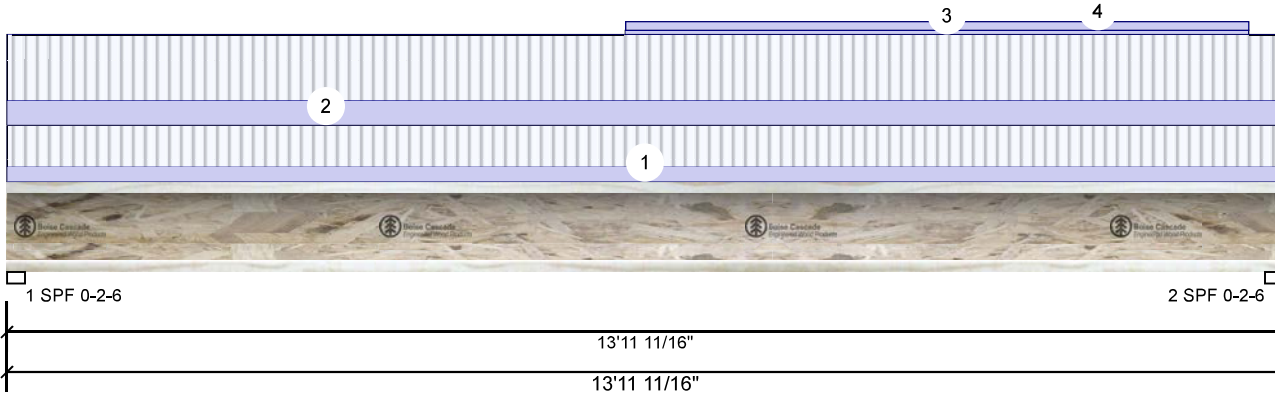
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Oct 30 2023Client: GREENPARK  
Project:  
Address: ZADORRA ESTATES  
OSHAWA, ONDate: 7/13/2023  
Input by: W C  
Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

F4-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	348	141	0	0
2	Vertical	348	161	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	41%	177 / 522	699	L	1.25D+1.5L
2 - SPF	2.375"	Vert	43%	201 / 522	723	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2397 ft-lb	7'1 3/16"	5305 ft-lb	0.452 (45%)	1.25D+1.5L	L
Unbraced	2397 ft-lb	7'1 3/16"	5305 ft-lb	0.452 (45%)	1.25D+1.5L	L
Shear	710 lb	13'10 1/16"	2350 lb	0.302 (30%)	1.25D+1.5L	L
Perm Defl in.	0.063 (L/2602)	7'1 1/4"	0.457 (L/360)	0.138 (14%)	D	Uniform
LL Defl inch	0.144 (L/1141)	6'11 7/8"	0.457 (L/360)	0.316 (32%)	L	
TL Defl inch	0.207 (L/793)	7' 1/4"	0.685 (L/240)	0.303 (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 bearings.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 13-11-11	0-5-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 13-11-11	0-9-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	6-9-4 to 13-7-3		Top	2 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	6-9-5 to 13-7-3		Top	4 PLF	0 PLF	0 PLF	0 PLF	

## Notes

Calculated Structural 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. Joist not to be treated with fire retardant or corrosive chemicals

## chemicals

## Handling &amp; Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists 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

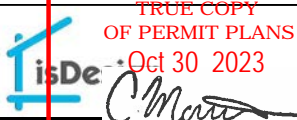
## Manufacturer Info

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



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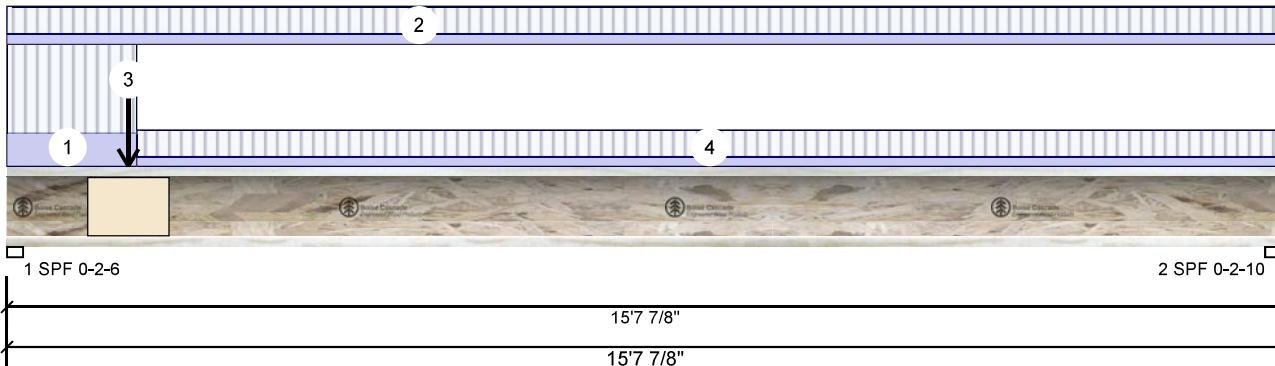
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Oct 30 2023Client: GREENPARK  
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Address: ZADORRA ESTATES  
OSHAWA, ONDate: 7/13/2023  
Input by: W C  
Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

Page 11 of 43

F5 AUS 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	693	260	0	0
2	Vertical	335	126	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	81%	325 / 1040	1365	L	1.25D+1.5L
2 - SPF	2.625"	Vert	38%	157 / 503	660	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2781 ft-lb	6'11"	5305 ft-lb	0.524 (52%)	1.25D+1.5L	L
Unbraced	2781 ft-lb	6'11"	5305 ft-lb	0.524 (52%)	1.25D+1.5L	L
Shear	1343 lb	1' 5/8"	2350 lb	0.571 (57%)	1.25D+1.5L	L
Perm Defl in.	0.082 (L/2251)	7'6 1/2"	0.512 (L/360)	0.160 (16%)	D	Uniform
LL Defl inch	0.218 (L/844)	7'6 1/2"	0.512 (L/360)	0.426 (43%)	L	
TL Defl inch	0.300 (L/614)	7'6 1/2"	0.768 (L/240)	0.391 (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 a maximum of 14'2" o.c.



JULY 14, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-7-2	1-7-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 15-7-14	0-5-14	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-14		Far Face	134 lb	357 lb	0 lb	0 lb	F1
4	Tie-In	1-7-2 to 15-7-14	0-5-10	Top	15 PSF	40 PSF	0 PSF	0 PSF	

## Notes

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## Lumber

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

## chemicals

## Handling &amp; Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-plate fastening details and handling/erection details
3. Damaged Joists 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

## Manufacturer Info

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

## Kott Inc.

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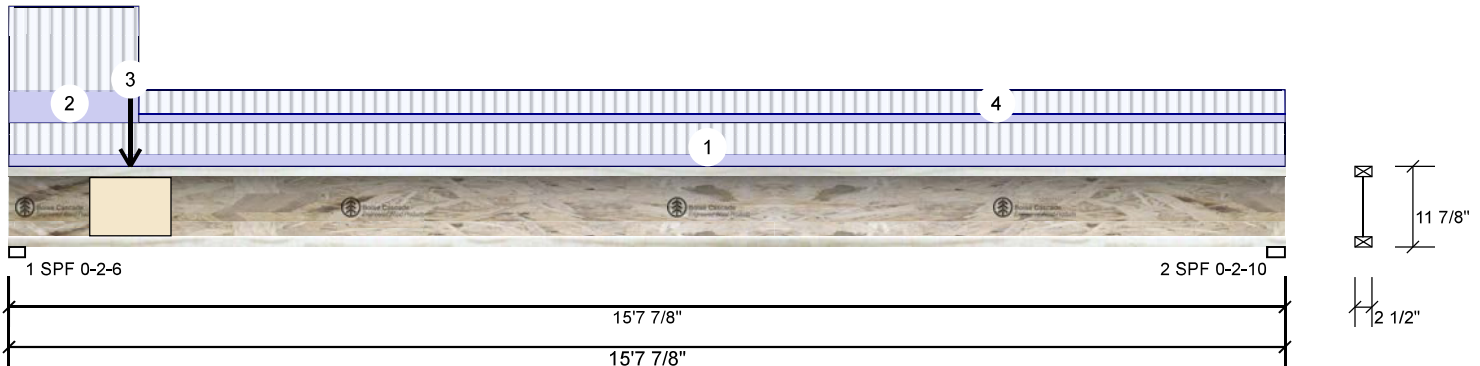
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Project:  
Address: ZADORRA ESTATES  
OSHAWA, ON

Date: 7/13/2023  
Input by: W C  
Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

F5-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	727	272	0	0
2	Vertical	362	136	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	85%	340 / 1091	1431	L	1.25D+1.5L
2 - SPF	2.625"	Vert	41%	170 / 542	712	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2983 ft-lb	6'11 11/16"	5305 ft-lb	0.562 (56%)	1.25D+1.5L	L
Unbraced	2983 ft-lb	6'11 11/16"	5305 ft-lb	0.562 (56%)	1.25D+1.5L	L
Shear	1407 lb	1 5/8"	2350 lb	0.599 (60%)	1.25D+1.5L	L
Perm Defl in.	0.088 (L/2101)	7'6 11/16"	0.512 (L/360)	0.171 (17%)	D	Uniform
LL Defl inch	0.234 (L/787)	7'6 5/8"	0.512 (L/360)	0.457 (46%)	L	
TL Defl inch	0.322 (L/573)	7'6 5/8"	0.768 (L/240)	0.419 (42%)	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.
- Girders are designed to be supported on the bottom edge only.
- If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- Bottom flange must be laterally braced at a maximum of 14'2" 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 15-7-14	0-7-2	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-7-2	1-7-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-14		Near Face	136 lb	364 lb	0 lb	0 lb	F1
4	Tie-In	1-7-2 to 15-7-14	0-5-6	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

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

## chemicals

## Handling &amp; Installation

- Joist flanges must not be cut or drilled
- Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
- Damaged Joists must not be used
- 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

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CCMC: 12787

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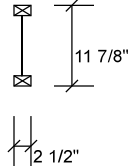
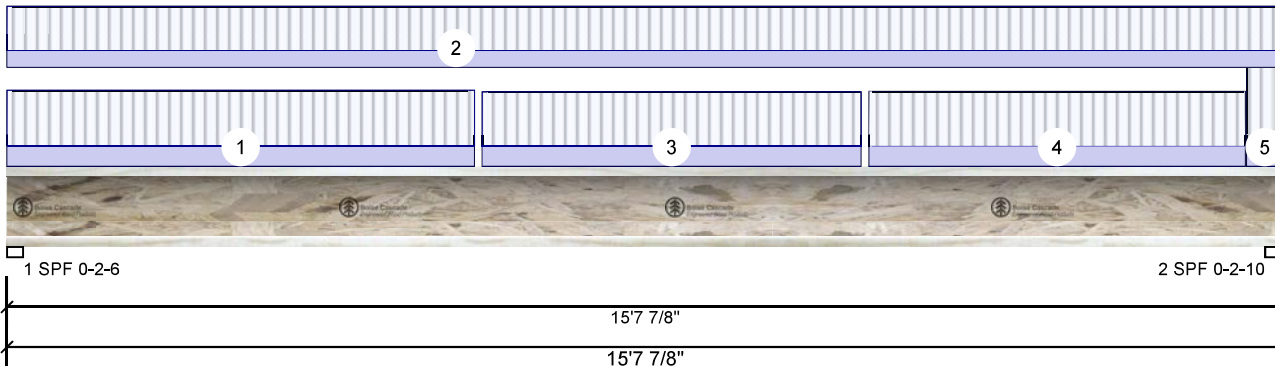
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Oct 30 2023Client: GREENPARK  
Project:  
Address: ZADORRA ESTATES  
OSHAWA, ONDate: 7/13/2023  
Input by: W C  
Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

Page 13 of 43

F5-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	428	160	0	0
2	Vertical	431	162	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	50%	201 / 641	842	L	1.25D+1.5L
2 - SPF	2.625"	Vert	49%	202 / 646	848	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3158 ft-lb	7'9 3/4"	5305 ft-lb	0.595 (60%)	1.25D+1.5L	L
Unbraced	3158 ft-lb	7'9 3/4"	5305 ft-lb	0.595 (60%)	1.25D+1.5L	L
Shear	828 lb	15'6"	2350 lb	0.352 (35%)	1.25D+1.5L	L
Perm Defl in.	0.091 (L/2026)	7'9 13/16"	0.512 (L/360)	0.178 (18%)	D	Uniform
LL Defl inch	0.243 (L/760)	7'9 13/16"	0.512 (L/360)	0.474 (47%)	L	
TL Defl inch	0.334 (L/553)	7'9 13/16"	0.768 (L/240)	0.434 (43%)	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.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 5-8-14	0-9-3	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 15-7-14	0-7-6	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	5-10-0 to 10-5-12	0-9-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	10-6-15 to 15-2-6	0-9-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	15-2-8 to 15-7-14	1-0-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	

## Notes

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## Lumber

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

## chemicals

## Handling &amp; Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists 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

## Manufacturer Info

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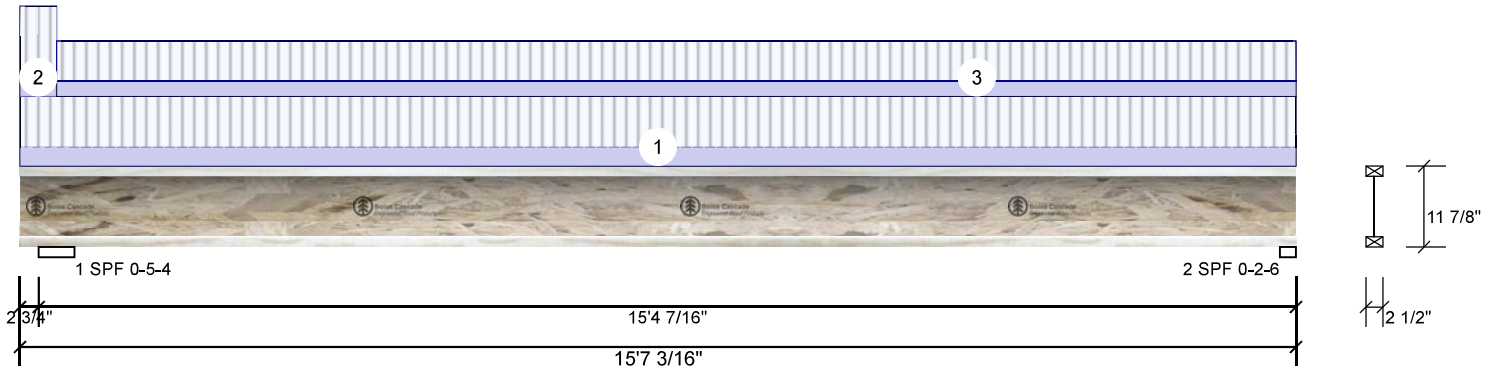
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Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

F5-C PERMITTING OFFICIAL 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	451	169	0	0
2	Vertical	418	157	0	0

## Bearings and Factored Reactions

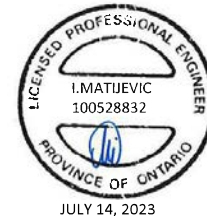
Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	46%	212 / 677	889	LL	1.25D+1.5L
2 - SPF	2.375"	Vert	49%	196 / 628	824	_L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-4 ft-lb	2 3/4"	3448 ft-lb	0.001 (0%)	1.25D+1.5L	_L
Unbraced	-4 ft-lb	2 3/4"	219 ft-lb	0.017 (2%)	1.25D+1.5L	_L
Pos Moment	3005 ft-lb	8' 7/16"	5305 ft-lb	0.567 (57%)	1.25D+1.5L	_L
Unbraced	3005 ft-lb	8' 7/16"	5305 ft-lb	0.567 (57%)	1.25D+1.5L	_L
Shear	809 lb	7 1/4"	2350 lb	0.344 (34%)	1.25D+1.5L	LL
Perm Defl in.	0.081 (L/2189)	8' 7/16"	0.495 (L/360)	0.164 (16%)	D	Uniform
LL Defl inch	0.217 (L/820)	8' 7/16"	0.495 (L/360)	0.439 (44%)	L	_L
TL Defl inch	0.299 (L/597)	8' 7/16"	0.743 (L/240)	0.402 (40%)	D+L	_L
LL Cant	-0.010 (2L/571)	Lt Cant	0.200 (2L/360)	0.048 (5%)	L	_L
TL Cant	-0.013 (2L/416)	Lt Cant	0.300 (2L/240)	0.044 (4%)	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.



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## Notes

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## Lumber

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

## chemicals

## Handling &amp; Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists 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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## Manufacturer Info

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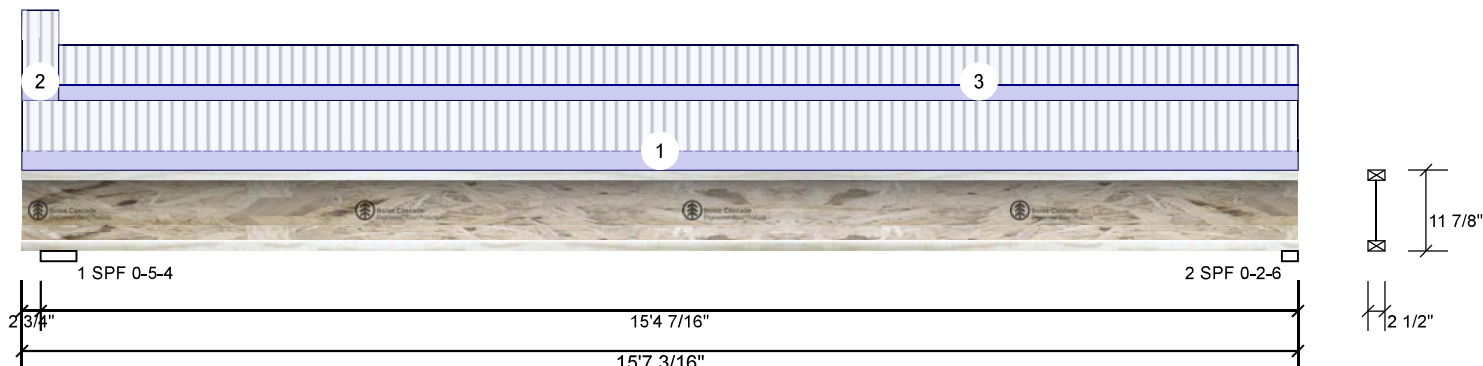
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Project #:

MHP 23030

PER: AJS CHIEF BUILDING OFFICIAL 11 875" - PASSED

Level: Ground Floor



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 15-7-3	0-9-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-5-6	1-0-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-5-6 to 15-7-3	0-7-6	Top	15 PSF	40 PSF	0 PSF	0 PSF	



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USED IN THE DESIGN OF THIS COMPONENT.**

## Notes

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## Lumber

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

chemicals

## Handling & Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists 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  $\geq 3.5$  inches
7. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

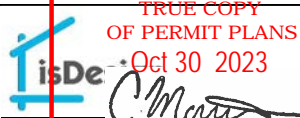
### Manufacturer Info

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

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



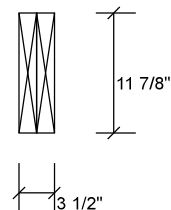
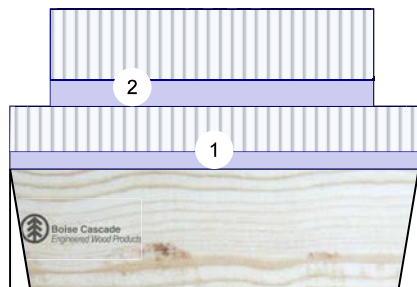


Client: GREENPARK  
 Project: ZADORRA ESTATES  
 Address: OSHAWA, ON

Date: 7/13/2023  
 Input by: W C  
 Job Name: ROSE 6-3 STD  
 Project #:

MHP 23030

F6-A Versa-Lam VL 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	318	140	0	0
2	Vertical	314	138	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	9%	175 / 478	653	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	8%	173 / 471	644	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	540 ft-lb	1'8 3/16"	35392 ft-lb	0.015 (2%)	1.25D+1.5L	L
Unbraced	540 ft-lb	1'8 3/16"	35392 ft-lb	0.015 (2%)	1.25D+1.5L	L
Shear	444 lb	2'2 9/16"	13217 lb	0.034 (3%)	1.25D+1.5L	L
Perm Defl in. (L/164491)	0.000	1'8 3/16"	0.105 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch (L/71195)	0.001	1'8 3/16"	0.105 (L/360)	0.005 (1%)	L	L
TL Defl inch (L/49689)	0.001	1'8 3/16"	0.158 (L/240)	0.005 (0%)	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.
- Fill all hanger nailing holes.
- Left Header: DF, Thickness: 3 1/2"
- Right Header: DF, Thickness: 3 1/2"
- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all plies.
- Top must be continuously laterally braced.
- Bottom must have sheathing attached or be continuously braced.
- Lateral slenderness ratio based on full section width.



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## 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

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

chemicals

## Handling &amp; 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

- 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



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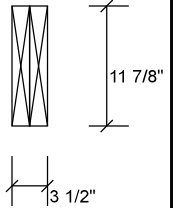
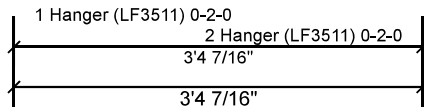
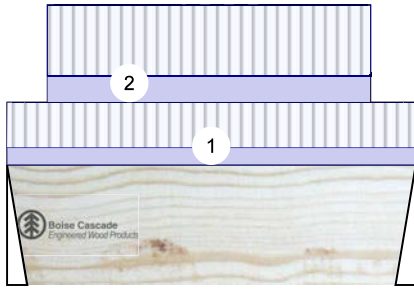
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Project:  
Address: ZADORRA ESTATES  
OSHAWA, ON

Date: 7/13/2023  
Input by: W C  
Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

Page 17 of 43

F6-A Versa-Lam LVL 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
1	Part. Uniform	0-0-0 to 3-4-7		Top	32 PLF	84 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-4-0 to 3-0-0		Far Face	49 PLF	131 PLF	0 PLF	0 PLF	
	Self Weight				12 PLF				



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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

#### Manufacturer Info

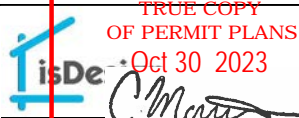
Boise Cascade Wood Products  
1111 W. Jefferson St.  
Boise, ID 83702  
(800) 232-0788  
www.bc.com  
CCMC: 12472

#### Kott Inc.

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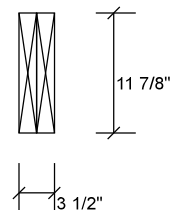
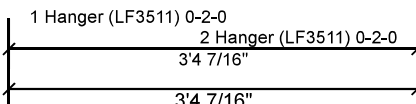
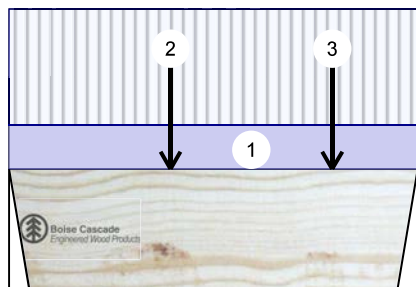
Client: GREENPARK  
 Project: ZADORRA ESTATES  
 Address: OSHAWA, ON

Date: 7/13/2023  
 Input by: W C  
 Job Name: ROSE 6-3 STD  
 Project #:

MHP 23030

F6-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	269	122	0	0
2	Vertical	313	138	0	0

### Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	7%	152 / 404	556	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	8%	173 / 469	642	L	1.25D+1.5L

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	523 ft-lb	1'4"	35392 ft-lb	0.015 (1%)	1.25D+1.5L	L
Unbraced	523 ft-lb	1'4"	35392 ft-lb	0.015 (1%)	1.25D+1.5L	L
Shear	448 lb	2'2 9/16"	13217 lb	0.034 (3%)	1.25D+1.5L	L
Perm Defl in. (L/172980)	0.000	1'7 7/8"	0.105 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch (L/75554)	0.001	1'7 13/16"	0.105 (L/360)	0.005 (0%)	L	L
TL Defl inch (L/52586)	0.001	1'7 7/8"	0.158 (L/240)	0.005 (0%)	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.
- Fill all hanger nailing holes.
- Left Header: DF, Thickness: 3 1/2"
- Right Header: DF, Thickness: 3 1/2"
- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all plies.
- Top must be continuously laterally braced.
- Bottom must have sheathing attached or be continuously braced.
- Lateral slenderness ratio based on full section width.



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### Notes

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### Lumber

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

### 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

- For flat roofs provide proper drainage to prevent ponding

### Manufacturer Info

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 CCMC: 12472

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Project:  
Address: ZADORRA ESTATES  
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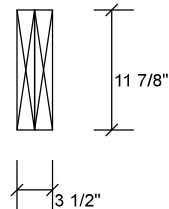
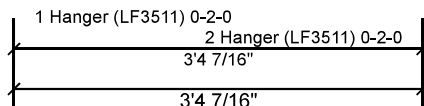
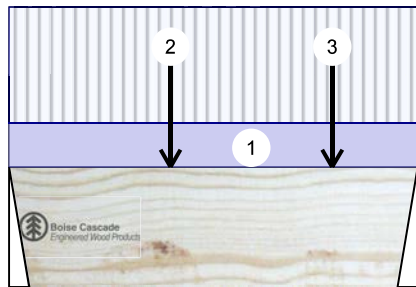
Date: 7/13/2023  
Input by: W C  
Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

Page 19 of 43

F6-B Versa-Lam LVL 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
1	Part. Uniform	0-0-0 to 3-4-7		Top	32 PLF	84 PLF	0 PLF	0 PLF	
2	Point	1-4-0		Far Face	63 lb	168 lb	0 lb	0 lb	J1
3	Point	2-8-0		Far Face	49 lb	131 lb	0 lb	0 lb	J2
	Self Weight				12 PLF				



JULY 14, 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

#### 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



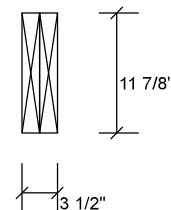
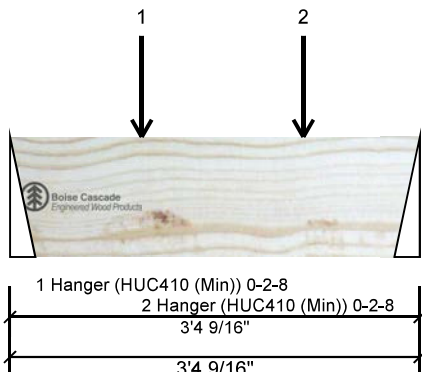
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Project:  
Address: ZADORRA ESTATES  
OSHAWA, ON

Date: 7/13/2023  
Input by: W C  
Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

F6-C 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	238	110	0	0
2	Vertical	254	115	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.500"	Vert	5%	137 / 358	495	L	1.25D+1.5L
2 - Hanger	2.500"	Vert	5%	144 / 380	524	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	457 ft-lb	1'1 1/16"	35392 ft-lb	0.013 (1%)	1.25D+1.5L	L
Unbraced	457 ft-lb	1'1 1/16"	35392 ft-lb	0.013 (1%)	1.25D+1.5L	L
Shear	521 lb	2'2 3/16"	13217 lb	0.039 (4%)	1.25D+1.5L	L
Perm Defl in. (L/190870)	0.000	1'8 1/8"	0.103 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch (L/83538)	0.000	1'8 1/8"	0.103 (L/360)	0.004 (0%)	L	L
TL Defl inch (L/58106)	0.001	1'8 1/8"	0.154 (L/240)	0.004 (0%)	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.
- Fill all hanger nailing holes.
- Left Header: DF, Thickness: 3 1/2"
- Right Header: DF, Thickness: 3 1/2"
- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top must be continuously laterally braced.
- Bottom must have sheathing attached or be continuously braced.
- Lateral slenderness ratio based on full section width.



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## Notes

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## Lumber

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

chemicals

## Handling &amp; 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

- For flat roofs provide proper drainage to prevent ponding

## Manufacturer Info

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

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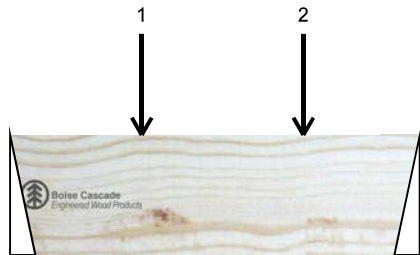
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Project:  
Address: ZADORRA ESTATES  
OSHAWA, ON

Date: 7/13/2023  
Input by: W C  
Job Name: ROSE 6-3 STD  
Project #:

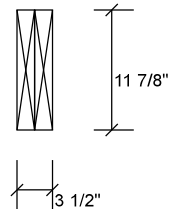
MHP 23030

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F6-C Versa-Lam LVL 2-1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



1 Hanger (HUC410 (Min)) 0-2-8  
2 Hanger (HUC410 (Min)) 0-2-8  
3'4 9/16"  
3'4 9/16"



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	1-1-1		Far Face	95 lb	252 lb	0 lb	0 lb	J3
2	Point	2-5-1		Far Face	90 lb	240 lb	0 lb	0 lb	J3
	Self Weight				12 PLF				



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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

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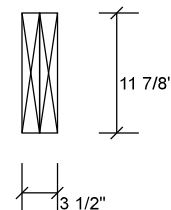
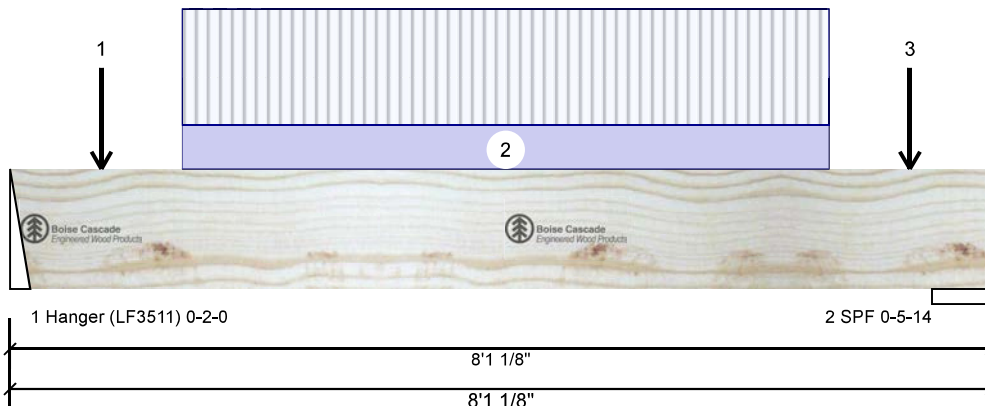
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Address: ZADORRA ESTATES  
OSHAWA, ON

Date: 7/13/2023  
Input by: W C  
Job Name: ROSE 6-3 STD  
Project #:

MHP 23030

Page 22 of 43

F7 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	328	0	0
2	Vertical	818	358	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	20%	411 / 1126	1537	L	1.25D+1.5L
2 - SPF	5.875"	Vert	13%	447 / 1227	1674	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3000 ft-lb	3'10 9/16"	35392 ft-lb	0.085 (8%)	1.25D+1.5L	L
Unbraced	3000 ft-lb	3'10 9/16"	35392 ft-lb	0.085 (8%)	1.25D+1.5L	L
Shear	1609 lb	6'7 3/8"	13217 lb	0.122 (12%)	1.25D+1.5L	L
Perm Defl in. (L/13863)	0.007	3'10 9/16"	0.252 (L/360)	0.026 (3%)	D	Uniform
LL Defl inch	0.015 (L/6016)	3'10 9/16"	0.252 (L/360)	0.060 (6%)	L	L
TL Defl inch	0.022 (L/4195)	3'10 9/16"	0.378 (L/240)	0.057 (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.
- Fill all hanger nailing holes.
- Left Header: DF, Thickness: 3 1/2"
- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top must be continuously laterally braced.
- Bottom must have sheathing attached or be continuously braced.
- Lateral slenderness ratio based on full section width.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-9-1		Far Face	88 lb	234 lb	0 lb	0 lb	J4
2	Part. Uniform	1-5-1 to 6-9-1		Far Face	79 PLF	210 PLF	0 PLF	0 PLF	
3	Point	7-5-1		Far Face	81 lb	215 lb	0 lb	0 lb	J4
	Self Weight				12 PLF				

## Notes

Calculated Structural 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

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

chemicals

## Handling &amp; 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

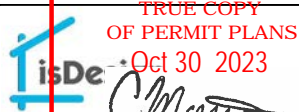
## Manufacturer Info

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



This design is valid until 4/17/2026



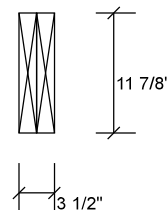
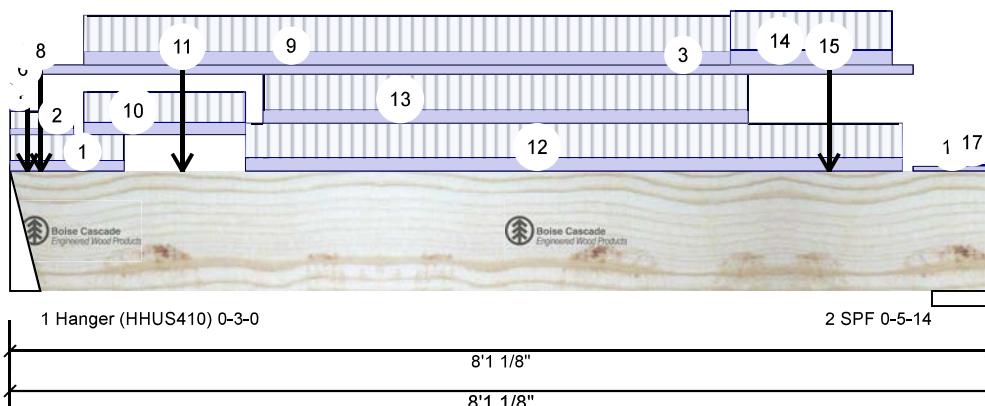
Client: GREENPARK  
 Project:  
 Address: ZADORRA ESTATES  
 OSHAWA, ON

Date: 7/13/2023  
 Input by: W C  
 Job Name: ROSE 6-3 STD  
 Project #:

MHP 23030

F7-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	4478	2092	0	0
2	Vertical	3184	1553	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	81%	2614 / 6716	9331	L	1.25D+1.5L
2 - SPF	5.875"	Vert	53%	1941 / 4777	6717	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13400 ft-lb	3'11 3/16"	35392 ft-lb	0.379 (38%)	1.25D+1.5L	L
Unbraced	13400 ft-lb	3'11 3/16"	35392 ft-lb	0.379 (38%)	1.25D+1.5L	L
Shear	6234 lb	1'2 7/8"	13217 lb	0.472 (47%)	1.25D+1.5L	L
Perm Defl in.	0.031 (L/2923)	3'11 3/16"	0.249 (L/360)	0.123 (12%)	D	Uniform
LL Defl inch	0.064 (L/1393)	3'11 3/16"	0.249 (L/360)	0.258 (26%)	L	L
TL Defl inch	0.095 (L/944)	3'11 3/16"	0.374 (L/240)	0.254 (25%)	D+L	L

## Design Notes

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



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## Notes

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

## chemicals

## Handling &amp; Installation

1. LVL beams must not be cut or drilled
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5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

## Manufacturer Info

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