

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.

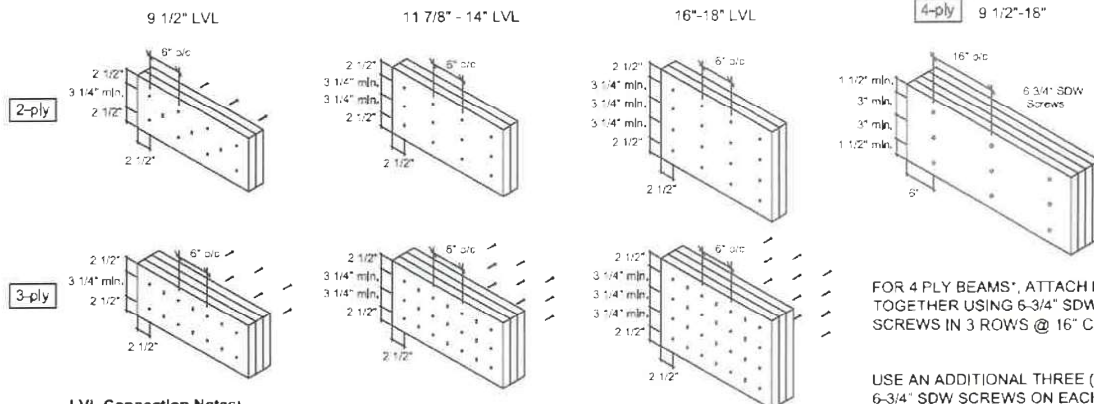
HANDLING AND INSTALLATION

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



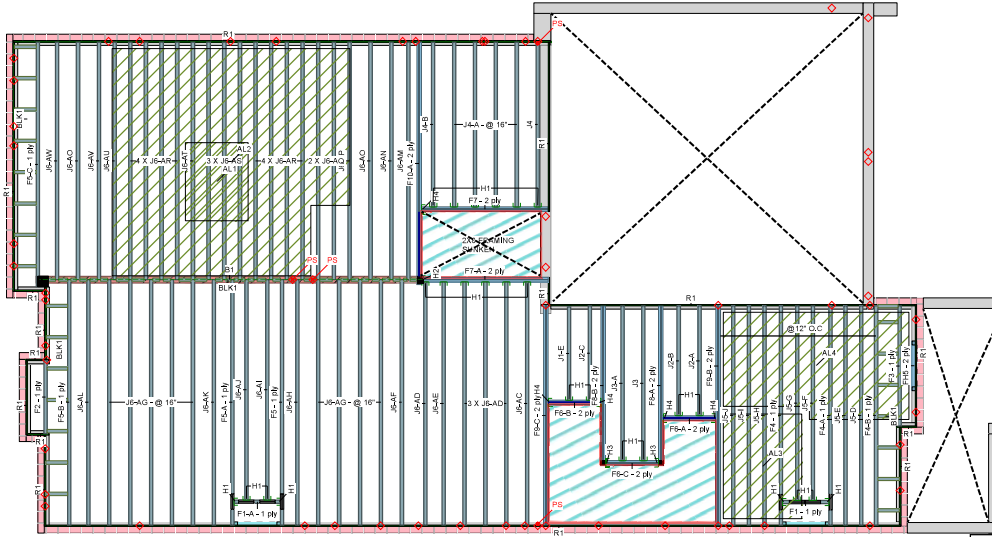
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Last Revised January 13, 2023

ENG-M0723-064-KTZ-GREENPARK-ZADORRA ESTATES-ROSE 6-1

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Ground Floor



Ground Floor								JOB INFORMATION	
LVL/LSL (Flush)								Builder	
Label	Description	Width	Depth	Qty	Pies	Pcs	Length	GREENPARK	
F10	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	16-0-0	Project	
F9	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	2	2	4	14-0-0	Shipping	
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	2	2	4	12-0-0	ZADORRA ESTATES OSHAWA, ON	
F7	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	2	2	4	10-0-0	Sales Rep	
F6	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	3	2	6	4-0-0	RALPH MIRIGELLO	
F5	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	4-0-0	Designer	
Joist (Flush)								W.C	
Label	Description	Width	Depth	Qty	Pies	Pcs	Length	Plotted	
F5	AJS 140	2.5	11.875	4			16-0-0	June 26, 2023	
F4	AJS 140	2.5	11.875	3			14-0-0	Layout Name	
F3	AJS 140	2.5	11.875	1			8-0-0	ROSE 6-1 STD	
F2	AJS 140	2.5	11.875	1			6-0-0	Job Path	
F1	AJS 140	2.5	11.875	2			4-0-0	S:\CUSTOMERS\GREENPARK\ZADORRA ESTATE	
J6	AJS 140	2.5	11.875	43			16-0-0	MODELS\ROSE 6-1\ROSE 6-1-1.dwg	
J5	AJS 140	2.5	11.875	7			14-0-0		
J4	AJS 140	2.5	11.875	6			12-0-0		
J3	AJS 140	2.5	11.875	2			10-0-0		
J2	AJS 140	2.5	11.875	3			8-0-0		
J1	AJS 140	2.5	11.875	1			6-0-0		
Rim Board								DESIGN CRITERIA	
Label	Description	Width	Depth	Qty	Pies	Length	Ground Floor		
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875	15		12-0-0	Design Method		
								LSD (Canada)	
								NBCC 2015	
								OBC 2012(2020 Update)	
Blocking								Floor	
Label	Description	Width	Depth	Qty	Pies	Length	Loads		
BLK1	AJS 140	2.5	11.875	1		47-0-0	Live		
								Dead	
								Deflection Joist	
								LL Span /	
								TL Span /	
								Deflection Flush Girder	
								LL Span /	
								TL Span /	
								Deflection Dropped Girder	
								LL Span /	
								TL Span /	
								Deflection Header	
								LL Span /	
								TL Span /	
								Decking	
								Thickness	
								3/4"	
								Fastener	
								Nailed & Glued	
CCMC References								Kott Inc.	
								3228 Moode Dr. Ottawa	
								14 Anderson Blvd. Unbridge	
								Ontario	
								613-838-2775 /	
								905-642-4400	
Legend								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)	

Installation Guide



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

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

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 "B" 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 member be fastened to the side of the 3-ply member. It is recommended that the member be fastened to the side of the 3-ply member.

Ground Floor

Installation Guide



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

ENG-M0724-04-KT-GREENPARK-ZADORRA ESTATES-ROSE 6-1

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 "B" 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	16-0-0
F9	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	2	2	4	14-0-0
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	2	2	4	12-0-0
F7	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	2	2	4	10-0-0
F6	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	3	2	6	4-0-0
F5	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	4-0-0

Joist (Flush)

Label	Description	Width	Depth	Pcs	Length
F5	AJS 140	2.5	11.875	2	16-0-0
F4	AJS 140	2.5	11.875	3	14-0-0
F3	AJS 140	2.5	11.875	1	8-0-0
F2	AJS 140	2.5	11.875	1	6-0-0
F1	AJS 140	2.5	11.875	1	4-0-0
J6	AJS 140	2.5	11.875	45	16-0-0
J5	AJS 140	2.5	11.875	7	14-0-0
J4	AJS 140	2.5	11.875	6	12-0-0
J3	AJS 140	2.5	11.875	2	10-0-0
J2	AJS 140	2.5	11.875	3	8-0-0
J1	AJS 140	2.5	11.875	1	6-0-0

Rim Board

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

Blocking

Label	Description	Width	Depth	Qty	Pcs	Length
BLK1	AJS 140	2.5	11.875	Varies	Varies	47-0-0

Hanger

Label	Pcs	Description	Beam/Girder		Supported Member	
			fasteners	fasteners	fasteners	fasteners
H1	22	LF2511	12 10x1 1/2	18x1 1/4WS		
H2	1	HLUS410	30 16d	10 16d		
H3	2	HLUC410 (Min)	14 16d	6 10d		
H4	5	LF3511	12 10d	2 8x1 1/4WS		

JOB INFORMATION

Builder	GREENPARK
Project	ZADORRA ESTATES OSHAWA, ON
Shipping	
Sales Rep	RALPH MIRIGELLO
Designer	
Plotted	July 13, 2023
Layout Name	ROSE 6-1 WOC
Job Path	S:\CUSTOMERS\GREENPARK\ZADORRA ESTATES MODELS\ROSE 6-1 WOC\ROSE 6-1 WOC-6-1 WOC.dwg

DESIGN CRITERIA

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

CCMC References

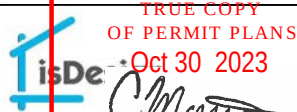
Boise - 12472-R, 12787-R	
LP - 12412-R, Roseburg - 13310-R	
Forex - 14035-R	
Kott Inc.	
3228 Wood Dr. Ottawa	
14 Anderson Blvd. Unbridge	
Ontario	
613-838-2775 /	
905-642-4400	



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)

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

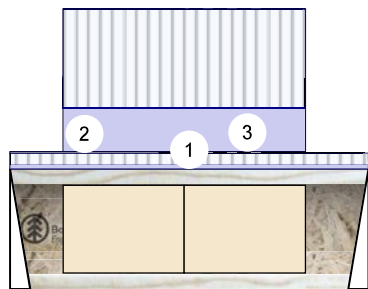
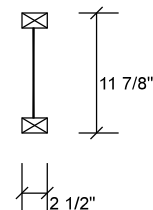
TRUE COPY
OF PERMIT PLANS
Oct 30 2023Client: GREENPARK
Project:
Address: ZADORRA ESTATES
OSHAWA, ONDate: 7/13/2023
Input by: W C
Job Name: ROSE 6-1 STD
Project #:

MHP 23030

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F1 A US 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

- 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.



JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTES: EWP-FLOORS. THE NOTE
PAGE IS AN INTEGRAL PART OF THIS DRAWING
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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 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

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

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

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



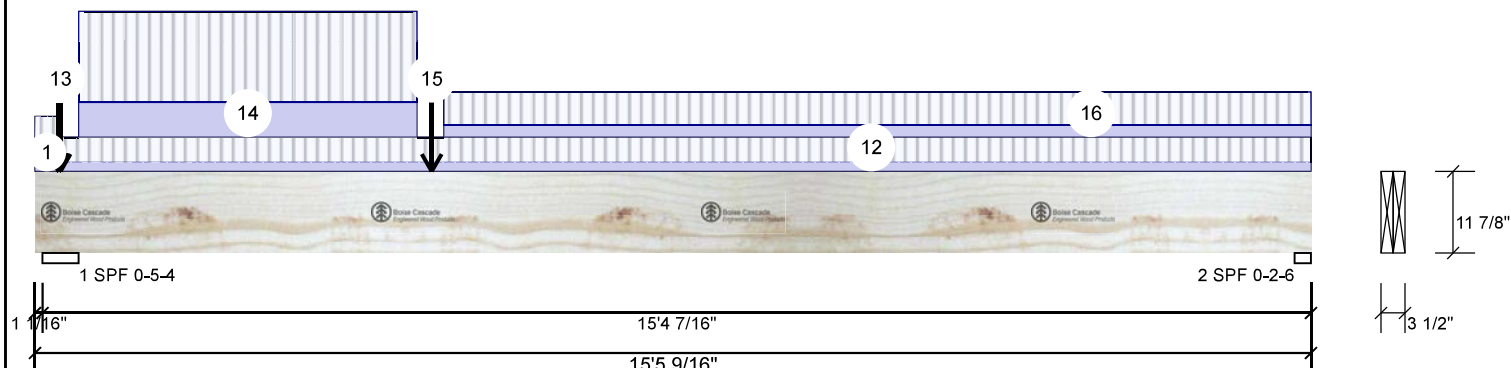
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Oct 30 2023Client: GREENPARK
Project:
Address: ZADORRA ESTATES
OSHAWA, ONDate: 7/13/2023
Input by: W C
Job Name: ROSE 6-1 STD
Project #:

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.



JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTES: EWP-FLOORS. THE NOTE
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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

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
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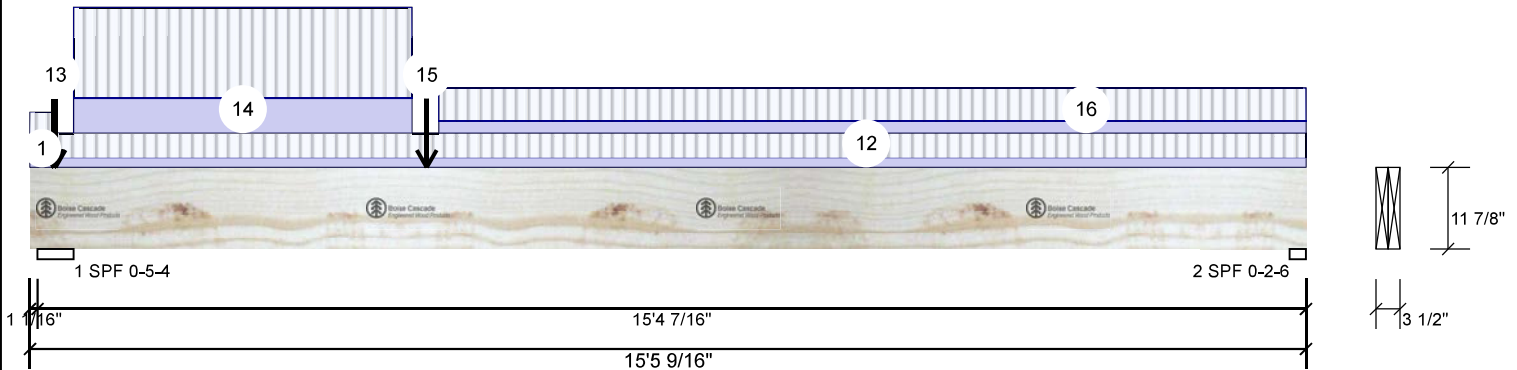
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MHP 23030

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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				

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JULY 14, 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

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

This design is valid until 4/17/2026

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



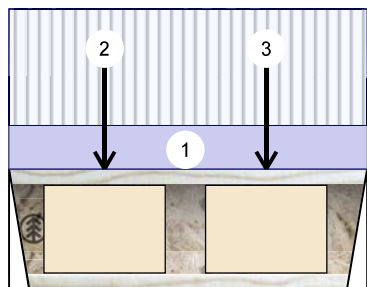
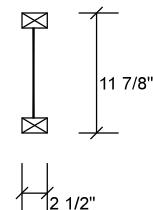
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Job Name: ROSE 6-1 STD
Project #:

MHP 23030

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F1-A PERMITTING 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 CBC 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 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 & 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



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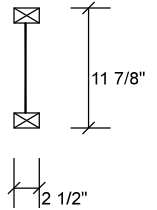
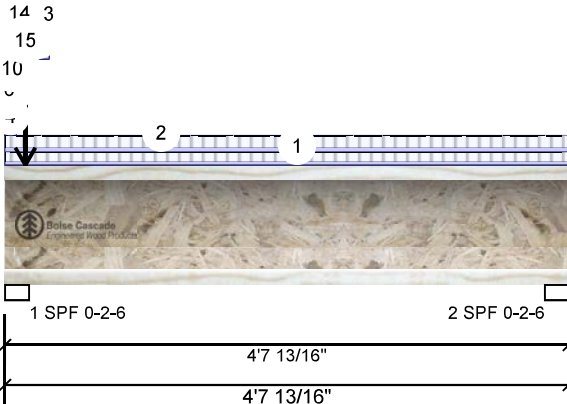
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F2 AUS 140 11.875" - PASSED

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	325	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	87%	711 / 660	1371	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



JULY 14, 2023

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 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	26 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

This design is valid until 4/17/2026

Manufacturer Info

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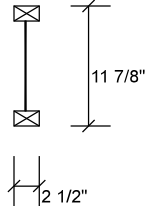
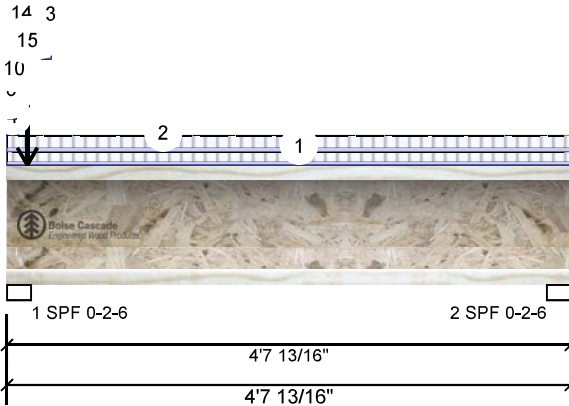
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F2 AUS 140 11.875" - PASSED

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	53 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	319 lb	0 lb	B2 Header Column
	Bearing Length	0-1-8							



JULY 14, 2023

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Lumber

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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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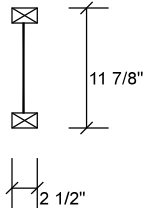
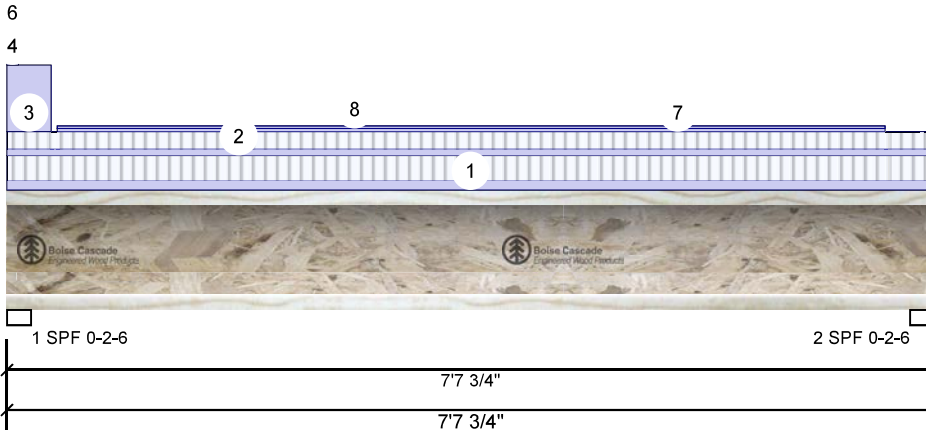
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F3 AUS 140 11.875" - PASSED

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	194	129	0	0
2	Vertical	194	97	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	27%	162 / 291	453	L	1.25D+1.5L
2 - SPF	2.375"	Vert	25%	121 / 292	413	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	741 ft-lb	3'9 13/16"	5305 ft-lb	0.140 (14%)	1.25D+1.5L	L
Unbraced	741 ft-lb	3'9 13/16"	5305 ft-lb	0.140 (14%)	1.25D+1.5L	L
Shear	421 lb	1 5/8"	2350 lb	0.179 (18%)	1.25D+1.5L	L
Perm Defl in. (L/10799)	0.008	3'9 13/16"	0.246 (L/360)	0.033 (3%)	D	Uniform
LL Defl inch	0.016 (L/5565)	3'9 15/16"	0.246 (L/360)	0.065 (6%)	L	L
TL Defl inch	0.024 (L/3673)	3'9 13/16"	0.369 (L/240)	0.065 (7%)	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.
- 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 bearings.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 7-7-12	0-9-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 7-7-12	0-6-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-0-0 to 0-4-6		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-0-0 to 0-1-2		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Part. Uniform	0-0-9 to 0-0-9		Top	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
7	Part. Uniform	0-4-15 to 7-2-14		Top	4 PLF	0 PLF	0 PLF	0 PLF	
8	Part. Uniform	0-4-15 to 7-2-14		Top	3 PLF	0 PLF	0 PLF	0 PLF	

Notes

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Lumber

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

chemicals

Handling & 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

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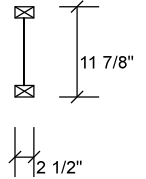
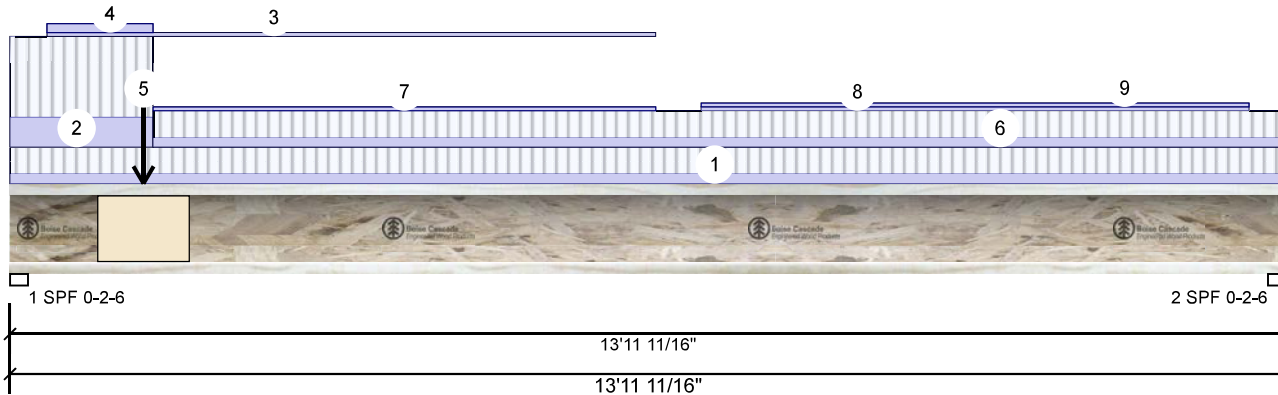
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F4 AUS 140 11.875" - PASSED

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%	202 / 487	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 (55%)	1.25D+1.5L	L
Perm Defl in.	0.076 (L/2159)	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

- 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 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

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Lumber

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

chemicals

Handling & 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
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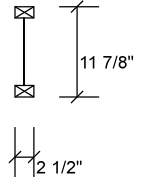
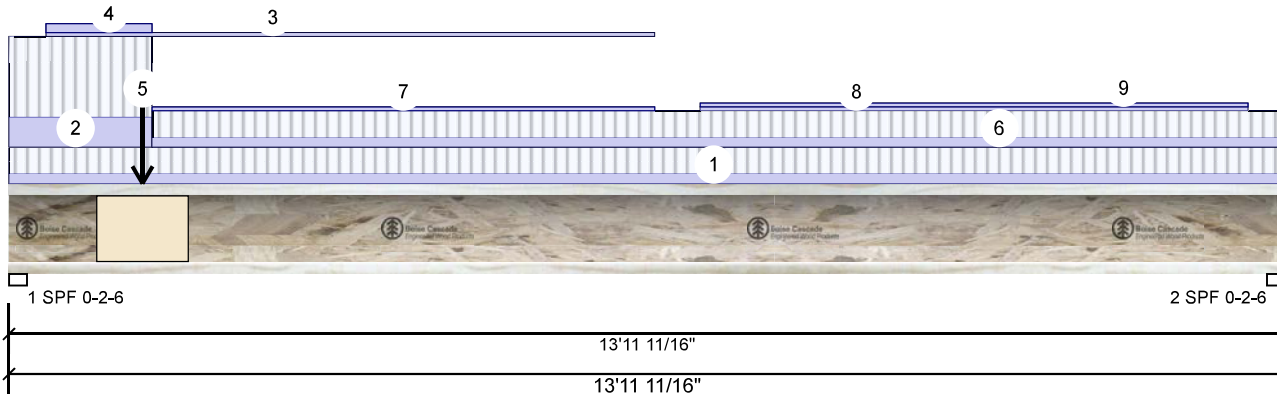
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Project:
Address: ZADORRA ESTATES
OSHAWA, ONDate: 7/13/2023
Input by: W C
Job Name: ROSE 6-1 STD
Project #:

MHP 23030

Page 9 of 44

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 13-6-13		Top	3 PLF	0 PLF	0 PLF	0 PLF	
9	Part. Uniform	7-6-13 to 13-6-13		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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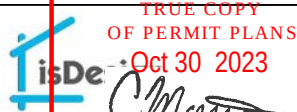
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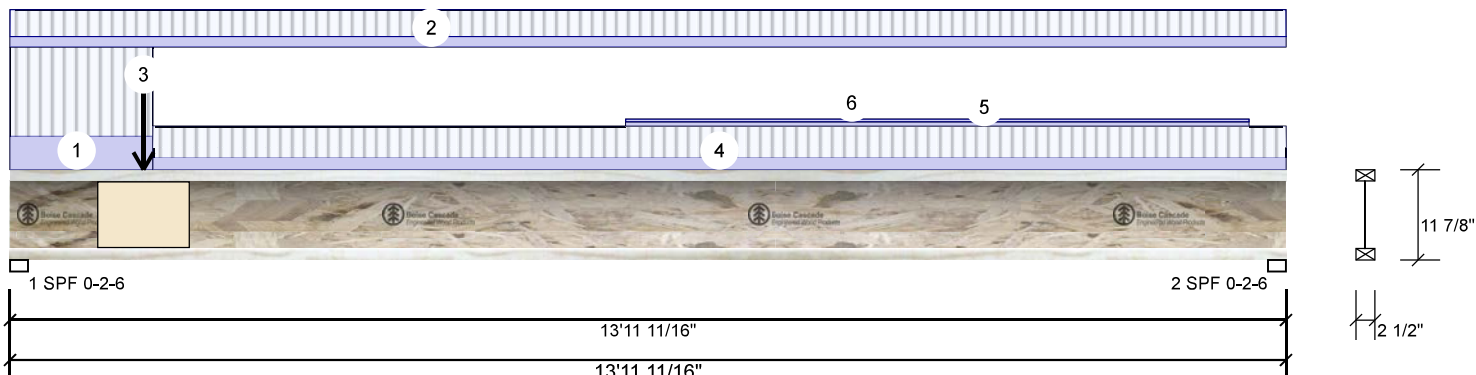
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Project #:

MHP 23030

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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.



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 1-6-13	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	6-8-15 to 13-6-13		Top	3 PLF	0 PLF	0 PLF	0 PLF	
6	Part. Uniform	6-8-15 to 13-6-13		Top	2 PLF	0 PLF	0 PLF	0 PLF	

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

This design is valid until 4/17/2026

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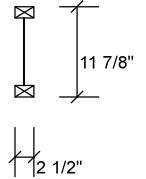
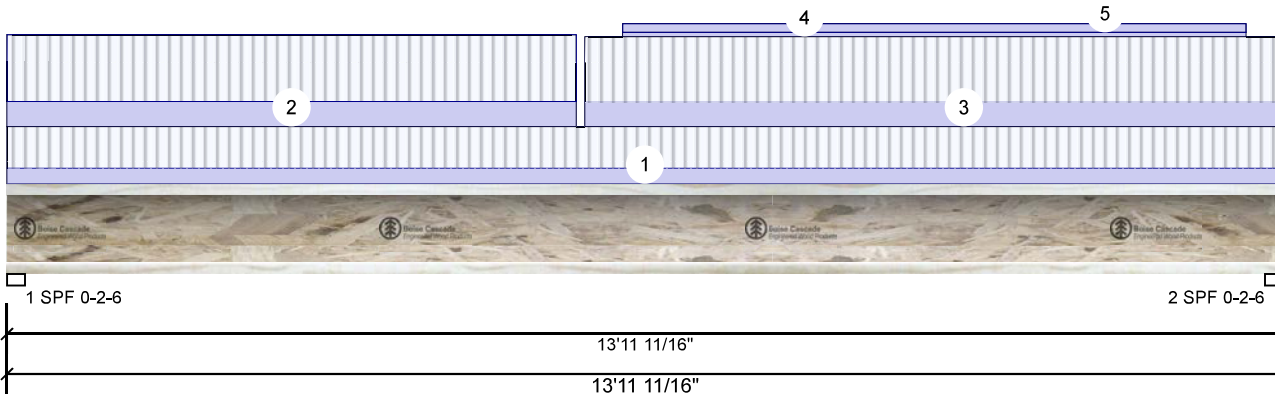
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Project #:

MHP 23030

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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	345	140	0	0
2	Vertical	343	159	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%	176 / 517	693	L	1.25D+1.5L
2 - SPF	2.375"	Vert	42%	198 / 515	713	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2362 ft-lb	7'1 5/16"	5305 ft-lb	0.445 (45%)	1.25D+1.5L	L
Unbraced	2362 ft-lb	7'1 5/16"	5305 ft-lb	0.445 (45%)	1.25D+1.5L	L
Shear	700 lb	13'10 1/16"	2350 lb	0.298 (30%)	1.25D+1.5L	L
Perm Defl in.	0.062 (L/2633)	7'1 1/4"	0.457 (L/360)	0.137 (14%)	D	Uniform
LL Defl inch	0.142 (L/1158)	6'11 13/16"	0.457 (L/360)	0.311 (31%)	L	
TL Defl inch	0.204 (L/804)	7' 1/4"	0.685 (L/240)	0.298 (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 6-2-13	0-9-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	6-3-15 to 13-11-11	0-9-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Part. Uniform	6-8-15 to 13-6-13		Top	2 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	6-8-15 to 13-6-13		Top	4 PLF	0 PLF	0 PLF	0 PLF	

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 & 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

This design is valid until 4/17/2026

Manufacturer Info

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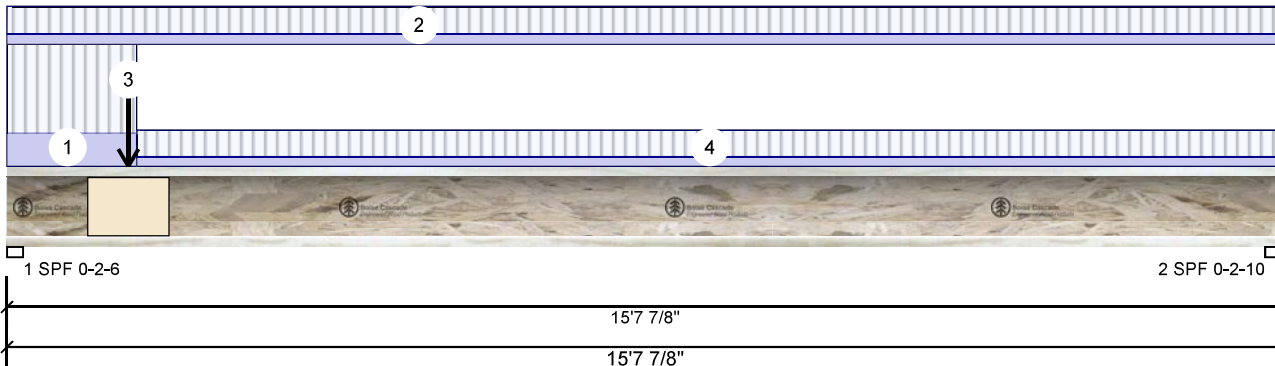
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Address: ZADORRA ESTATES
OSHAWA, ONDate: 7/13/2023
Input by: W C
Job Name: ROSE 6-1 STD
Project #:

MHP 23030

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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.

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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 & 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

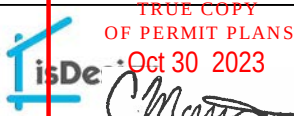
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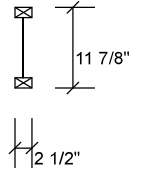
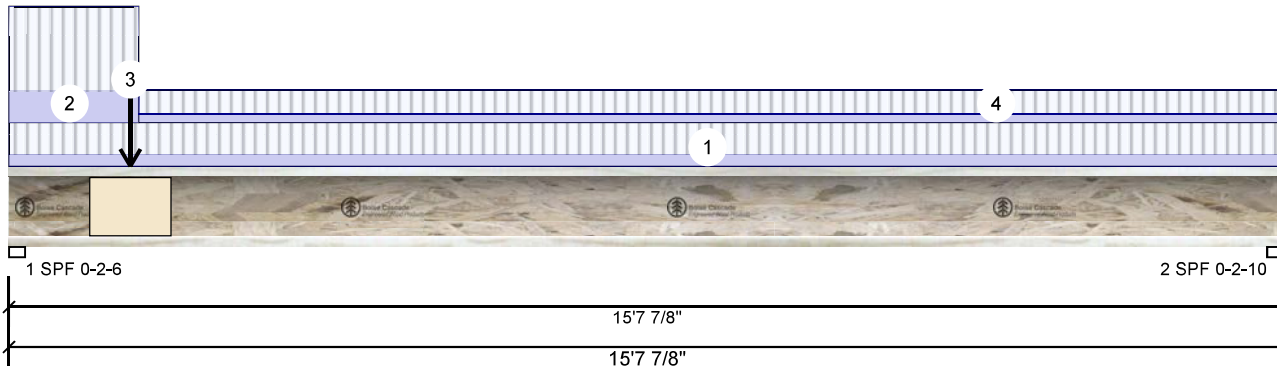
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Project #:

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 CBC 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.

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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

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Lumber

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

Handling & 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

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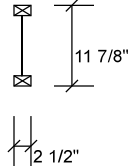
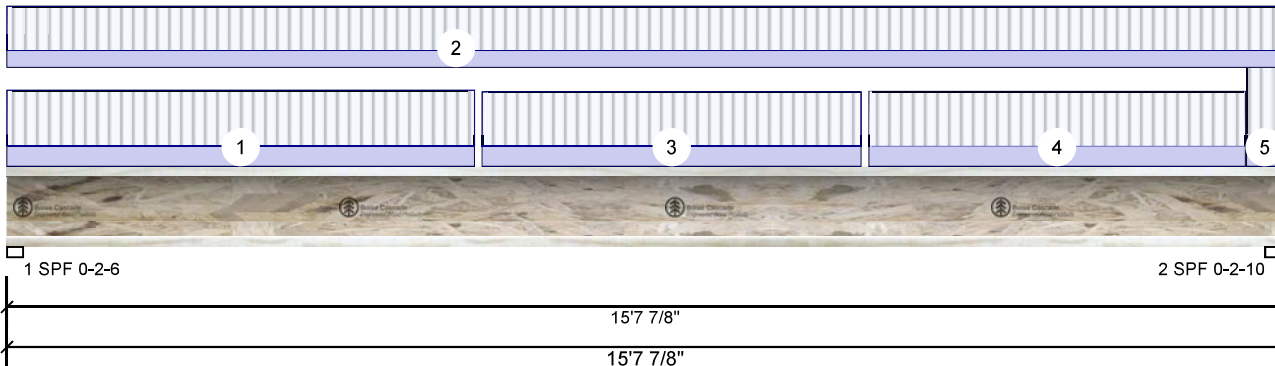


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Oct 30 2023Client: GREENPARK
Project:
Address: ZADORRA ESTATES
OSHAWA, ONDate: 7/13/2023
Input by: W C
Job Name: ROSE 6-1 STD
Project #:

MHP 23030

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

- 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 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

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

chemicals

Handling & 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



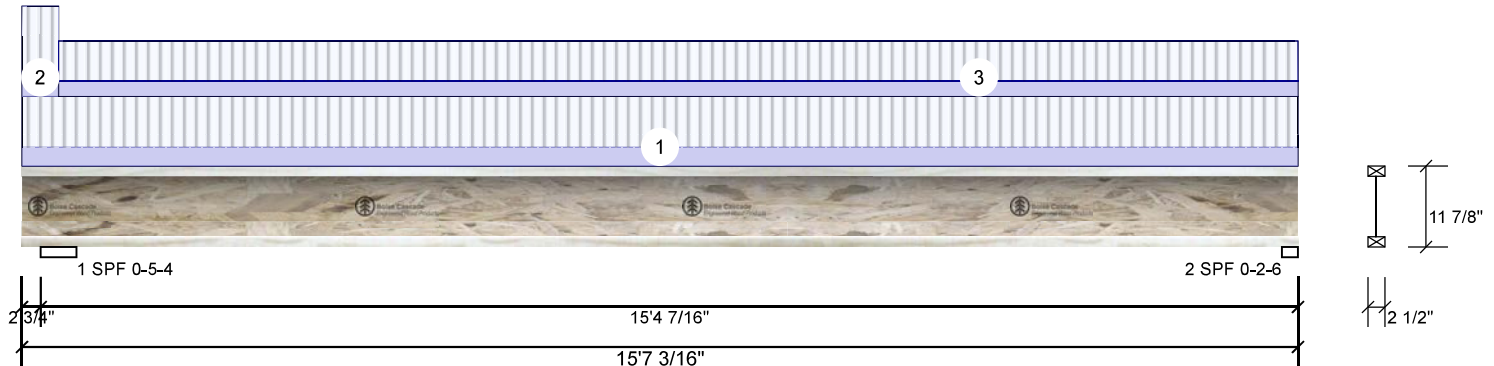
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OF PERMIT PLANS
Oct 30 2023Client: GREENPARK
Project:
Address: ZADORRA ESTATES
OSHAWA, ONDate: 7/13/2023
Input by: W C
Job Name: ROSE 6-1 STD
Project #:

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 CBC 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

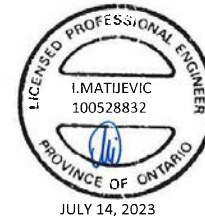
Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	46%	212 / 677	889	LL	1.25D+1.5L
2 - SPF	2.375"	Vert	49%	196 / 628	824	_L	1.25D+1.5L

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 & 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

This design is valid until 4/17/2026

Manufacturer Info

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

Kott Inc.

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613-838-2775 / 905-642-4400





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Project:
Address: ZADORRA ESTATES
OSHAWA, ON

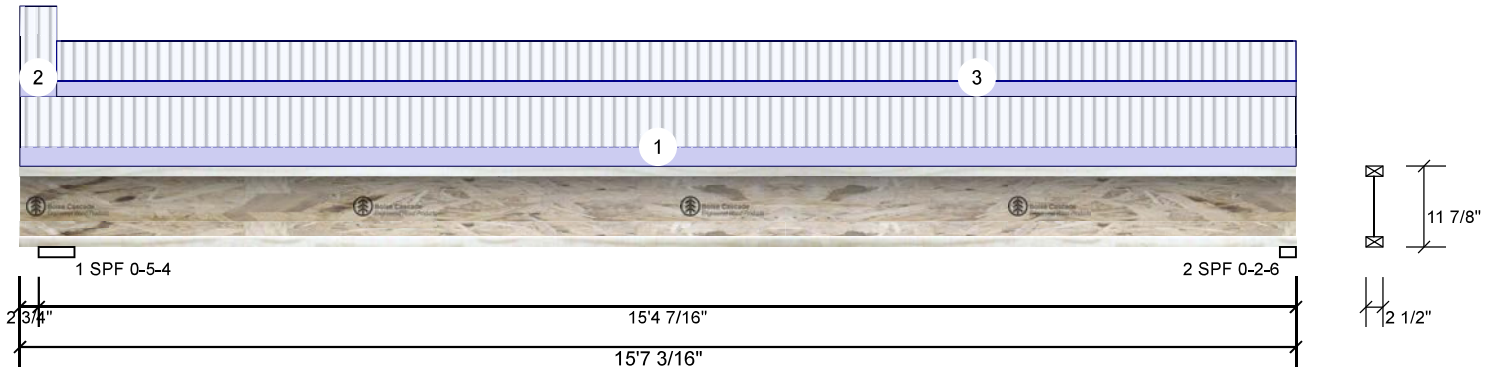
Date: 7/13/2023
Input by: W C
Job Name: ROSE 6-1 STD
Project #:

MHP 23030

Page 16 of 44

F5-C PERMIT OFFICIAL: **AJS 140 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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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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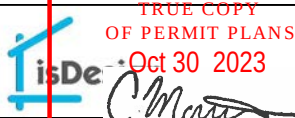
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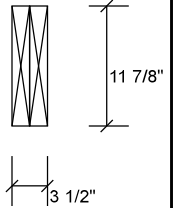
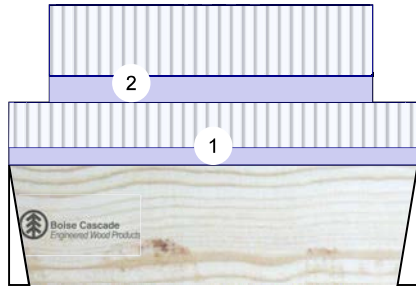


Client: GREENPARK
 Project: ZADORRA ESTATES
 Address: OSHAWA, ON

Date: 7/13/2023
 Input by: W C
 Job Name: ROSE 6-1 STD
 Project #:

MHP 23030

F6-A Versa-Lam VLG 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

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Lumber

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

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

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

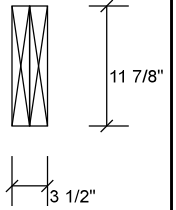
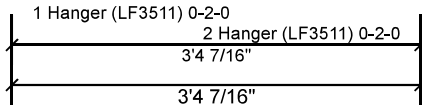
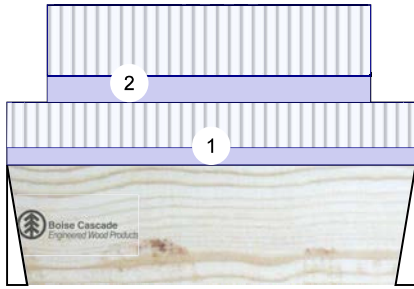
Date: 7/13/2023
Input by: W C
Job Name: ROSE 6-1 STD
Project #:

MHP 23030

Page 18 of 44

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				



JULY 14, 2023

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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

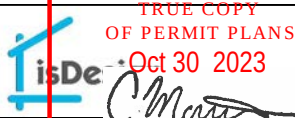
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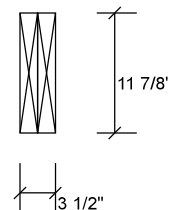
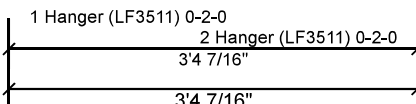
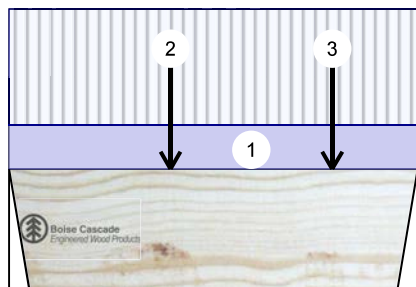


Client: GREENPARK
 Project: ZADORRA ESTATES
 Address: OSHAWA, ON

Date: 7/13/2023
 Input by: W C
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 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

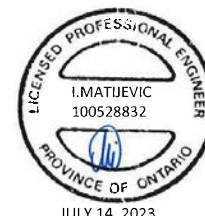
Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	7%	152 / 404	556	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	8%	173 / 469	642	L	1.25D+1.5L

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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Lumber

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

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

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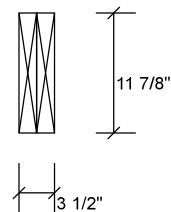
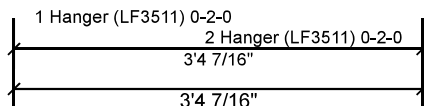
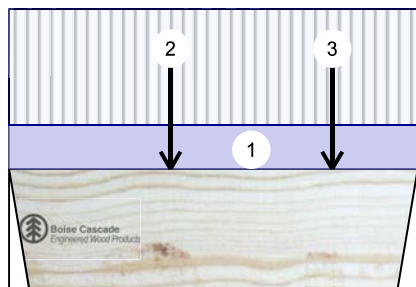
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F6-B Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED

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

Manufacturer Info

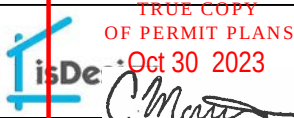
Boise Cascade Wood Products
1111 W. Jefferson St.
Boise, ID 83702
(800) 232-0788
www.bc.com
CCMC: 12472

Kott Inc.

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



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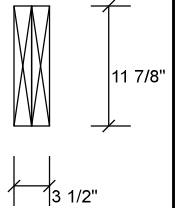
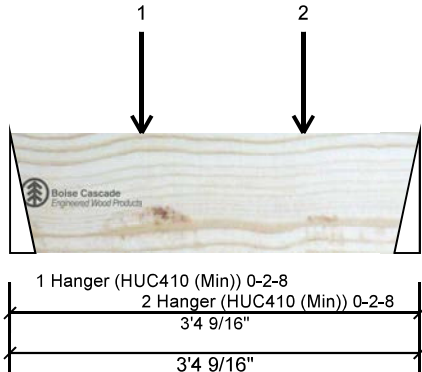
Client: GREENPARK
 Project:
 Address: ZADORRA ESTATES
 OSHAWA, ON

Date: 7/13/2023
 Input by: W C
 Job Name: ROSE 6-1 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



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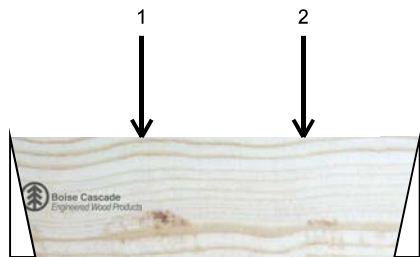
Client: GREENPARK
Project:
Address: ZADORRA ESTATES
OSHAWA, ON

Date: 7/13/2023
Input by: W C
Job Name: ROSE 6-1 STD
Project #:

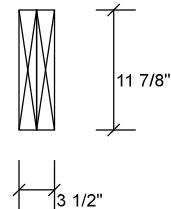
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F6-C Versa-Lam LVL 2.1E 3100 SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



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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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

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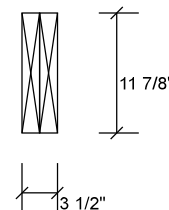
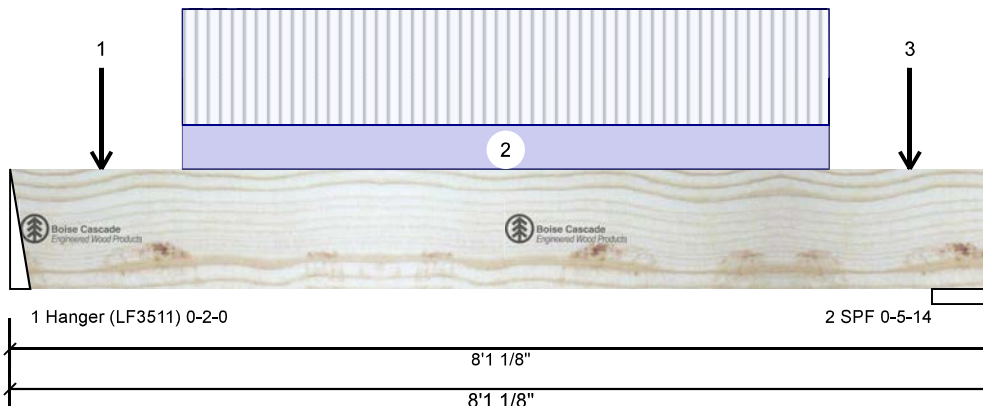
Client: GREENPARK
Project:
Address: ZADORRA ESTATES
OSHAWA, ON

Date: 7/13/2023
Input by: W C
Job Name: ROSE 6-1 STD
Project #:

MHP 23030

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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

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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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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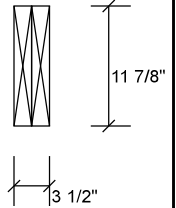
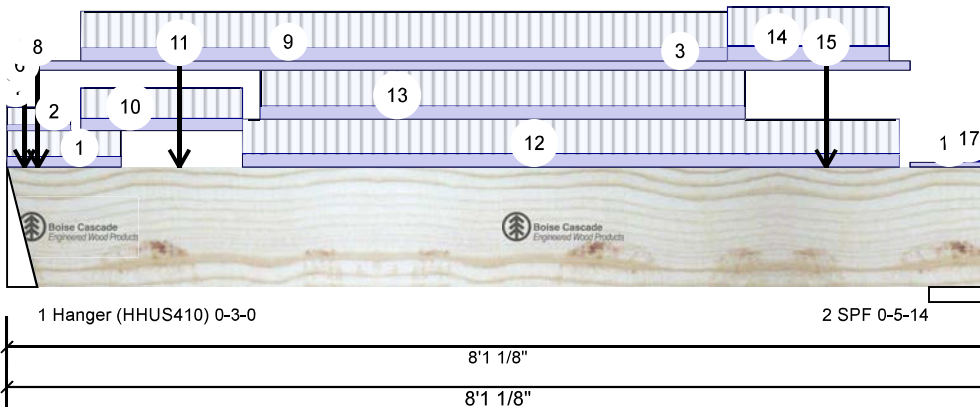
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Project #:

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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