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Client: GREENPARK
Project: VILLAS
Nov 03 2023

PER: *C. Monte*

JORRA ESTATES
14V/A, ON

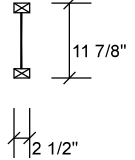
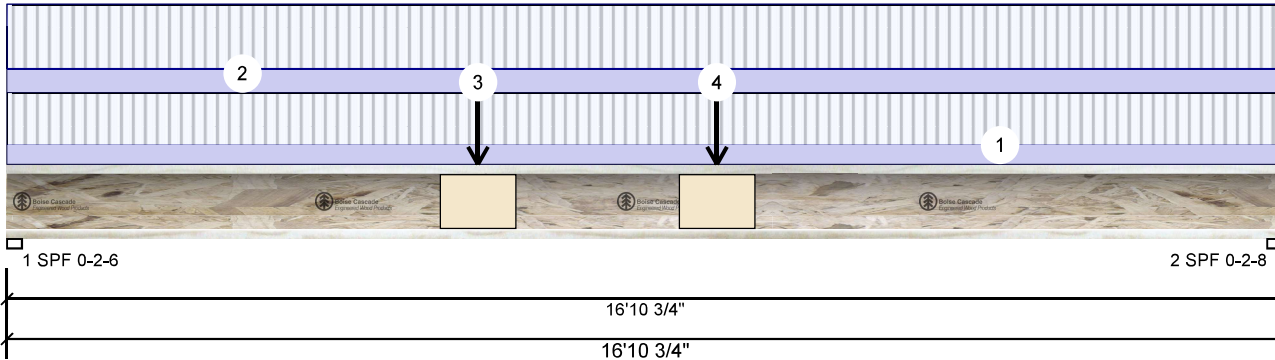
MHP 23036

Input by: W C
Job Name: VILLA 5-3 STD
Project #:

F4 AJS 140

11.875 PASSED

Level: Ground Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	516	193	0	0
2	Vertical	510	191	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	60%	242 / 773	1015	L	1.25D+1.5L
2 - SPF	2.518"	Vert	59%	239 / 765	1004	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4345 ft-lb	8'6"	5305 ft-lb	0.819 (82%)	1.25D+1.5L	L
Unbraced	4345 ft-lb	8'6"	5305 ft-lb	0.819 (82%)	1.25D+1.5L	L
Shear	1000 lb	1 5/8"	2350 lb	0.426 (43%)	1.25D+1.5L	L
Perm Defl in.	0.143 (L/1395)	8'5 3/16"	0.554 (L/360)	0.258 (26%)	D	Uniform
LL Defl inch	0.381 (L/523)	8'5 3/16"	0.554 (L/360)	0.689 (69%)	L	
TL Defl inch	0.524 (L/380)	8'5 3/16"	0.831 (L/240)	0.631 (63%)	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 7'5 15/16" o.c.



JULY 19, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 16-10-12	0-7-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 16-10-12	0-9-3	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	6-2-13		Near Face	16 lb	43 lb	0 lb	0 lb	F1
4	Point	9-4-13		Near Face	16 lb	43 lb	0 lb	0 lb	F1

Notes

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

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



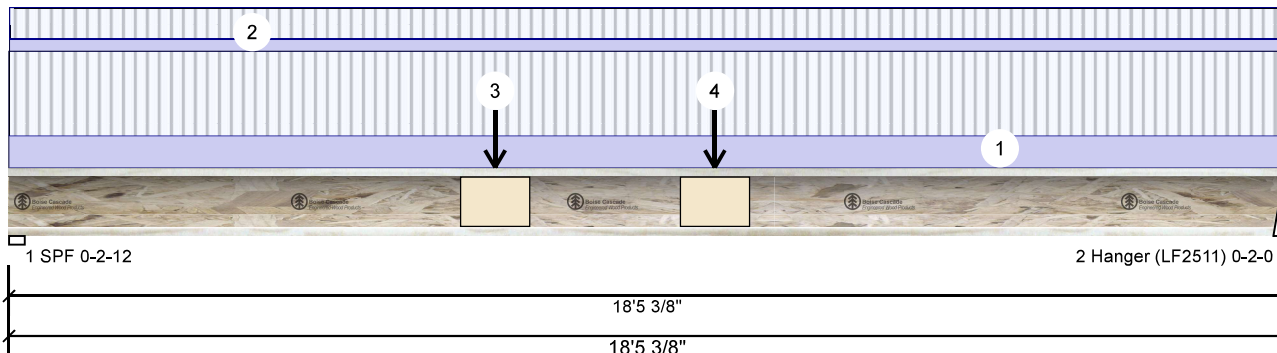
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F5 AJS 140

11.875 PASSED

Level: Ground Floor



11 7/8"
 2 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	437	164	0	0
2	Vertical	429	161	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.750"	Vert	49%	205 / 656	861	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	53%	201 / 643	844	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4073 ft-lb	9'3 15/16"	5305 ft-lb	0.768 (77%)	1.25D+1.5L	L
Unbraced	4073 ft-lb	9'3 15/16"	5305 ft-lb	0.768 (77%)	1.25D+1.5L	L
Shear	847 lb	2"	2350 lb	0.360 (36%)	1.25D+1.5L	L
Perm Defl in.	0.158 (L/1383)	9'2 7/8"	0.606 (L/360)	0.260 (26%)	D	Uniform
LL Defl inch	0.421 (L/518)	9'2 7/8"	0.606 (L/360)	0.695 (69%)	L	
TL Defl inch	0.579 (L/377)	9'2 7/8"	0.909 (L/240)	0.637 (64%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Right Header: DF, Thickness: 3 1/2"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 6 Bottom flange must be laterally braced at a maximum of 8'2 15/16" o.c.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 18-5-6	0-9-3	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-2 to 18-5-6	0-3-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	7-0-6		Near Face	16 lb	43 lb	0 lb	0 lb	F1
4	Point	10-2-8		Near Face	16 lb	43 lb	0 lb	0 lb	F1

Notes

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

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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 CCMC: 12787

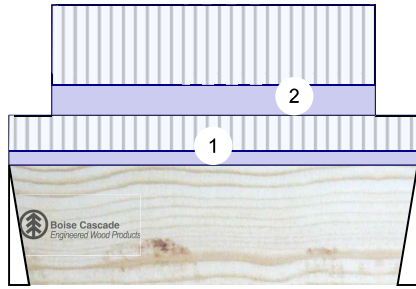
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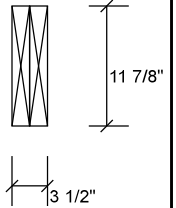
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F6 Versa-Lam LVL 2-1F 2-100SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



1 Hanger (LF3511) 0-2-0
2 Hanger (LF3511) 0-2-0
3'4 7/16"
3'4 7/16"



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	186	89	0	0
2	Vertical	186	89	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	5%	111 / 279	390	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	5%	112 / 279	391	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	330 ft-lb	1'8 1/4"	35392 ft-lb	0.009 (1%)	1.25D+1.5L	L
Unbraced	330 ft-lb	1'8 1/4"	35392 ft-lb	0.009 (1%)	1.25D+1.5L	L
Shear	287 lb	1'1 7/8"	13217 lb	0.022 (2%)	1.25D+1.5L	L
Perm Defl in. (L/255365)	0.000	1'8 1/4"	0.105 (L/360)	0.001 (0%)	D	Uniform
LL Defl inch (L/118926)	0.000	1'8 1/4"	0.105 (L/360)	0.003 (0%)	L	L
TL Defl inch (L/81139)	0.000	1'8 1/4"	0.158 (L/240)	0.003 (0%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Right Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Multiple plies must be fastened together as per manufacturer's details.
- 7 Top 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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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

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Project:

Nov 03 2023

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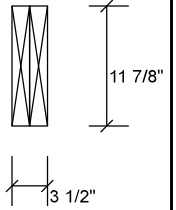
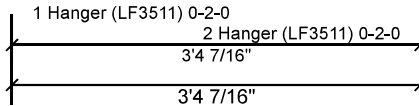
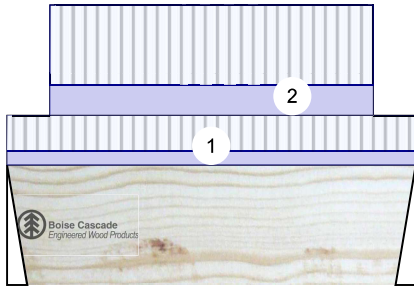
Job Name: VILLA 5-3 STD

Project #:

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F6 Versa-Lam LVL 2-1E 2-100 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	15 PLF	40 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-4-4 to 3-0-4		Far Face	33 PLF	89 PLF	0 PLF	0 PLF	
	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

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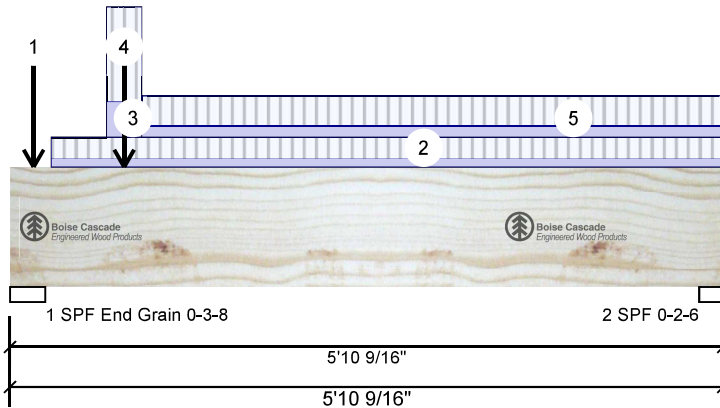
MHP 23036

Input by: W C

Job Name: VILLA 5-3 STD

Project #:

F7 Versa-Lam LVL 2-1E 2-100 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	862	439	0	0
2	Vertical	141	90	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	14%	548 / 1292	1841	L	1.25D+1.5L
2 - SPF	2.375"	Vert	6%	112 / 211	323	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	516 ft-lb	2'5 1/16"	35392 ft-lb	0.015 (1%)	1.25D+1.5L	L
Unbraced	516 ft-lb	2'5 1/16"	35392 ft-lb	0.015 (1%)	1.25D+1.5L	L
Shear	512 lb	1'3 3/8"	13217 lb	0.039 (4%)	1.25D+1.5L	L
Perm Defl in. (L/83928)	0.001	2'10 1/2"	0.184 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch (L/50491)	0.001	2'10 1/8"	0.184 (L/360)	0.007 (1%)	L	L
TL Defl inch (L/31527)	0.002	2'10 1/4"	0.276 (L/240)	0.008 (1%)	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.
- 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 be laterally braced at a maximum of 4'11 1/4" o.c.
- 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	0-2-5		Near Face	285 lb	591 lb	0 lb	0 lb	F17
2	Tie-In	0-4-1 to 5-10-9	0-5-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-9-9 to 1-1-1	1-10-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	0-11-5		Far Face	89 lb	186 lb	0 lb	0 lb	F6

Continued on page 2...

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

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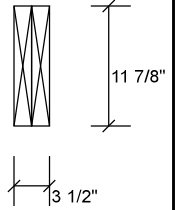
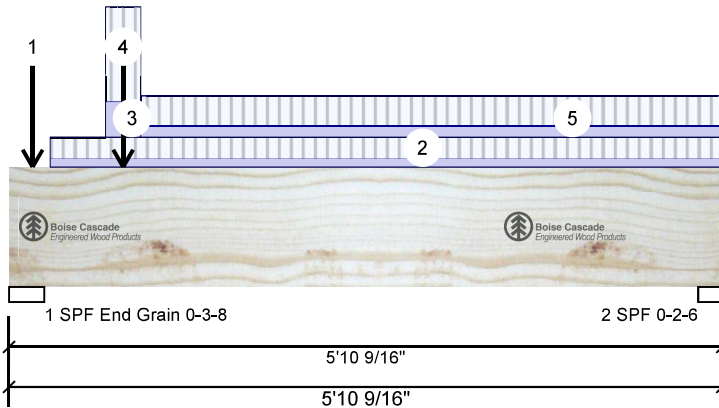
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F7 Versa-Lam LVL 2-1E 2-100 SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Tie-In	1-1-1 to 5-10-9	0-7-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				12 PLF				



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Lumber

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

Handling & Installation

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2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
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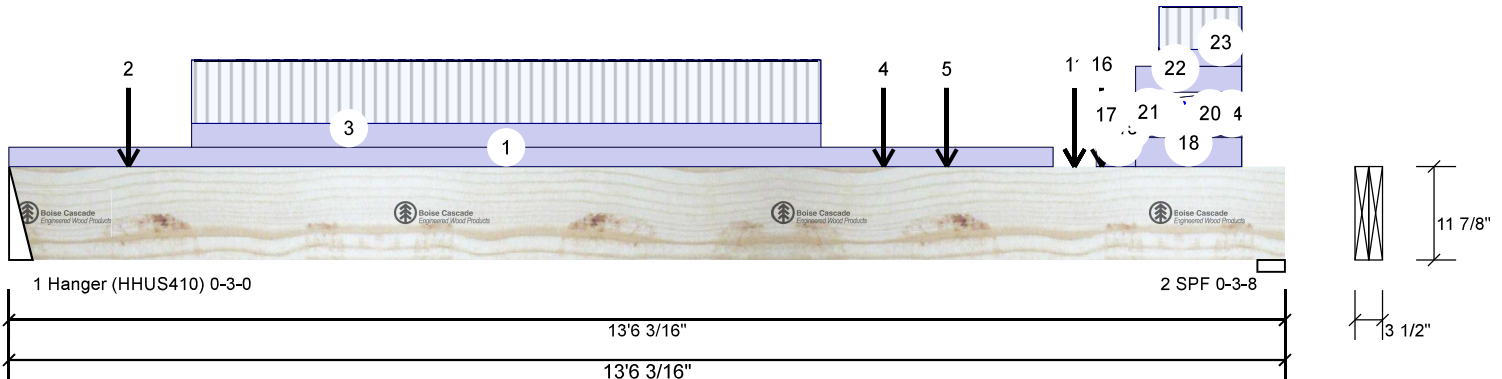
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F9 Versa-Lam LVL 2-1F 2-100SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



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	1179	964	61	0
2	Vertical	994	1157	454	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	26%	1205 / 1829	3034	L	1.25D+1.5L +S
2 - SPF	3.500"	Vert	45%	1446 / 1944	3391	L	1.25D+1.5L +S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	10480 ft-lb	6'9 15/16"	35392 ft-lb	0.296 (30%)	1.25D+1.5L +S	L
Unbraced	10480 ft-lb	6'9 15/16"	35392 ft-lb	0.296 (30%)	1.25D+1.5L +S	L
Shear	2937 lb	1'2 7/8"	13217 lb	0.222 (22%)	1.25D+1.5L +S	L
Perm Defl in.	0.100 (L/1565)	6'9 7/16"	0.437 (L/360)	0.230 (23%)	D	Uniform
LL Defl inch	0.127 (L/1235)	6'8 7/8"	0.437 (L/360)	0.292 (29%)	L+0.5S	L
TL Defl inch	0.228 (L/690)	6'9 1/8"	0.655 (L/240)	0.348 (35%)	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 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be continuously laterally braced.
- 8 Bottom must be laterally braced at a maximum of 3'7" o.c.
- 9 Lateral slenderness ratio based on full section width.



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

Notes

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

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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Client: GREENPARK
Project: VORRA ESTATES
Nov 03 2023

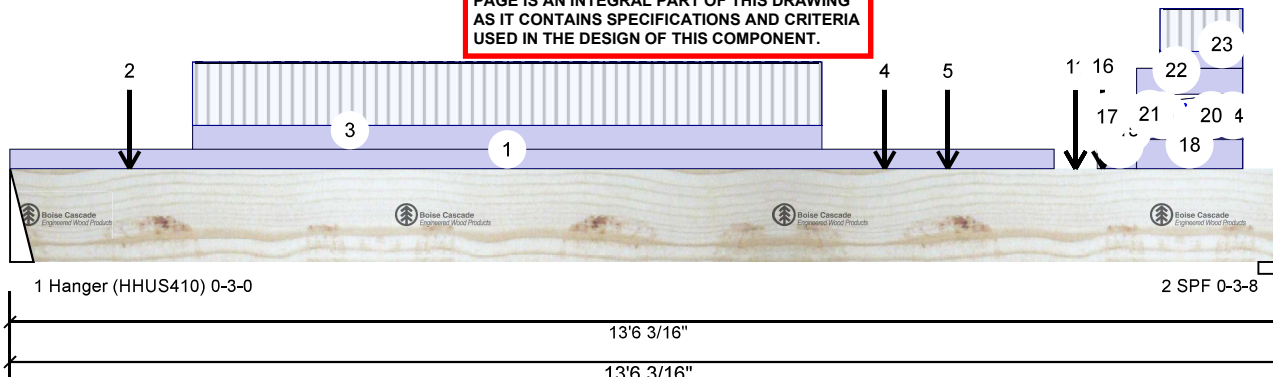
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VORRA ESTATES
1A/VIA, ON

Input by: W C
Job Name: VILLA 5-3 STD
Project #:

F9 Versa-Lam LVL 2-1E 2-100SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor

READ ALL NOTES ON THIS PAGE AND ON THE
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JULY 19, 2023

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 11-0-11		Top	60 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Point	1-3-3		Far Face	101 lb	269 lb	0 lb	0 lb	J4
3	Part. Uniform	1-11-3 to 8-7-3		Far Face	74 PLF	196 PLF	0 PLF	0 PLF	
4	Point	9-3-3		Far Face	74 lb	196 lb	0 lb	0 lb	J4
5	Point	9-11-3		Far Face	81 lb	216 lb	0 lb	0 lb	F2
6	Point	11-3-7		Top	5 lb	9 lb	0 lb	0 lb	J8
7	Bearing Length	0-5-8							
	Point	11-3-7		Top	3 lb	0 lb	0 lb	0 lb	Wall Self Weight
8	Bearing Length	0-5-8							
	Point	11-3-7		Top	9 lb	15 lb	0 lb	0 lb	J8
9	Bearing Length	0-5-8							
	Point	11-3-7		Top	6 lb	0 lb	0 lb	0 lb	Wall Self Weight
10	Bearing Length	0-5-8							
	Point	11-3-7		Top	25 lb	43 lb	0 lb	0 lb	J8
11	Bearing Length	0-5-8							
	Point	11-3-7		Top	17 lb	0 lb	0 lb	0 lb	Wall Self Weight
12	Part. Uniform	11-6-3 to 11-11-3		Top	45 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
14	Part. Uniform	11-6-3 to 11-11-3		Top	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
15	Part. Uniform	11-6-3 to 11-11-3		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
16	Point	11-6-15		Top	167 lb	0 lb	416 lb	0 lb	F14
17	Bearing Length	0-5-8							
	Tapered Start	11-6-15		Top	13 PLF	0 PLF	34 PLF	0 PLF	
18	End	11-11-3			15 PLF	0 PLF	38 PLF	0 PLF	
	Part. Uniform	11-11-3 to 13-0-11		Top	90 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
19	Tapered Start	11-11-3		Top	0 PLF	1 PLF	0 PLF	0 PLF	
	End	12-10-3			0 PLF	1 PLF	0 PLF	0 PLF	
20	Part. Uniform	11-11-3 to 13-0-11		Top	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
21	Tapered Start	11-11-3		Top	29 PLF	0 PLF	76 PLF	0 PLF	
	End	12-11-2			38 PLF	0 PLF	98 PLF	0 PLF	

Continued on page 3...

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
613-838-2775 / 905-642-4400



This design is valid until 4/17/2026



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Client:
Project:

GREENPARK

JORRA ESTATES
1A W/A, ON

MHP 23036

Input by: W C

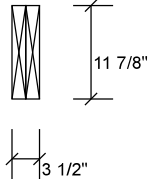
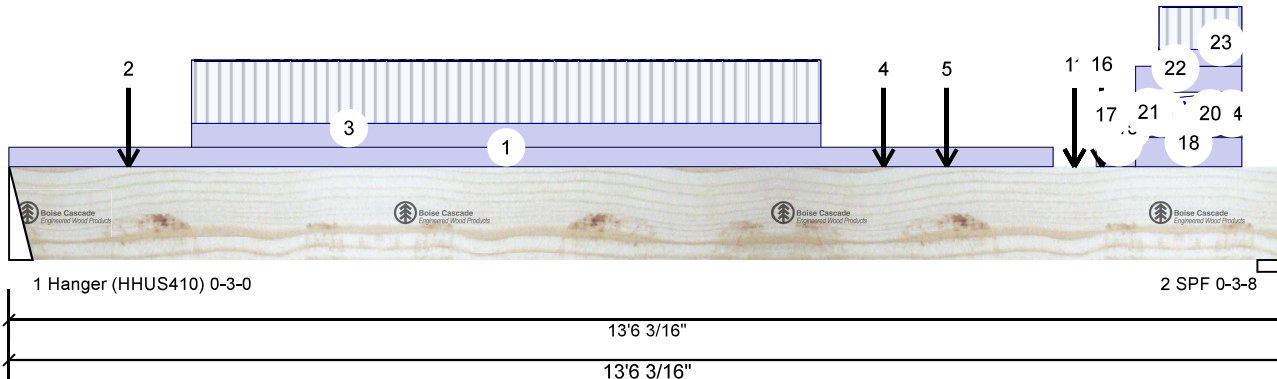
Job Name: VILLA 5-3 STD

Project #:

Page 24 of 37

F9 Versa-Lam LVL 2-1E 2-100 SP 1.750" X 11.875" 2-Ply - PASSED

Level: Ground Floor



...Continued from page 2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
22	Part. Uniform	11-11-3 to 13-0-11		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
23	Part. Uniform	12-2-3 to 13-0-11		Top	52 PLF	133 PLF	0 PLF	0 PLF	J8
24	Tapered Start	12-10-3		Top	0 PLF	1 PLF	0 PLF	0 PLF	
	End	13-0-11			0 PLF	1 PLF	0 PLF	0 PLF	
	Self Weight				12 PLF				



JULY 19, 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

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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CCMC: 12472

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Project:

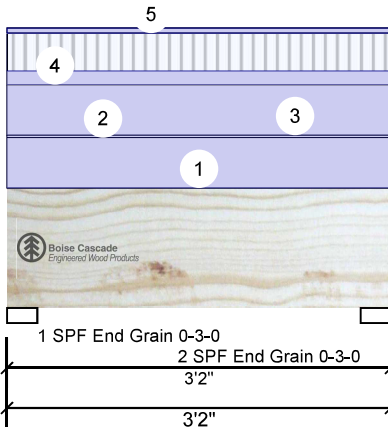
GREENPARK
VORRA ESTATES
14VVA, ON

MHP 23036

Input by: W C
Job Name: VILLA 5-3 STD & WOC
Project #:

Page 25 of 37

FH2 Versa-Lam LVL 2-1E 3100 SP 1.750" X 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	48	163	0	0
2	Vertical	48	163	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	7%	204 / 71	275	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	7%	204 / 71	275	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	169 ft-lb	1'7"	12918 ft-lb	0.013 (1%)	1.25D+1.5L	L
Unbraced	169 ft-lb	1'7"	12918 ft-lb	0.013 (1%)	1.25D+1.5L	L
Shear	182 lb	1'2 7/8"	4824 lb	0.038 (4%)	1.25D+1.5L	L
Perm Defl in. (L/102390)	0.000	1'7"	0.093 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch (L/351255)	0.000	1'7"	0.093 (L/360)	0.001 (0%)	L	L
TL Defl inch (L/79280)	0.000	1'7"	0.140 (L/240)	0.003 (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.
- Girders are designed to be supported on the bottom edge only.
- Top must be continuously laterally braced.
- Bottom must have sheathing attached or be continuously braced.



JULY 19, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-2-0		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-2-0		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 3-2-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Near Face	11 PLF	30 PLF	0 PLF	0 PLF	
	End	3-2-0			11 PLF	30 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 3-2-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	Self Weight				6 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

- 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

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



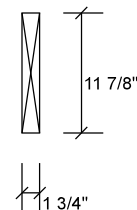
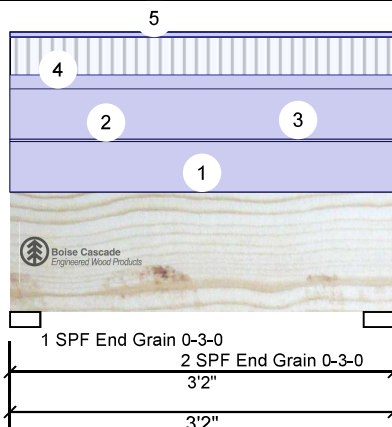
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Client: GREENPARK
Project: VORRA ESTATES
Nov 03 2023

PER: [Signature]

VORRA ESTATES
14VVA, ON

Input by: W C
Job Name: VILLA 5-3 DC
Project #:

FH2 Versa-Lam LVL 2-1E 3100 SP 1.750" X 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	48	163	0	0
2	Vertical	48	163	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	7%	204 / 71	275	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	7%	204 / 71	275	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	169 ft-lb	1'7"	12918 ft-lb	0.013 (1%)	1.25D+1.5L	L
Unbraced	169 ft-lb	1'7"	12918 ft-lb	0.013 (1%)	1.25D+1.5L	L
Shear	182 lb	1'2 7/8"	4824 lb	0.038 (4%)	1.25D+1.5L	L
Perm Defl in. (L/102390)	0.000	1'7"	0.093 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch (L/351255)	0.000	1'7"	0.093 (L/360)	0.001 (0%)	L	L
TL Defl inch (L/79280)	0.000	1'7"	0.140 (L/240)	0.003 (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.
- Girders are designed to be supported on the bottom edge only.
- Top must be continuously laterally braced.
- Bottom must have sheathing attached or be continuously braced.



JULY 19, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-2-0		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-2-0		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 3-2-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Near Face	11 PLF	30 PLF	0 PLF	0 PLF	
	End	3-2-0			11 PLF	30 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 3-2-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	Self Weight				6 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

- 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

This design is valid until 4/17/2026

Manufacturer Info

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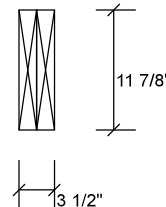
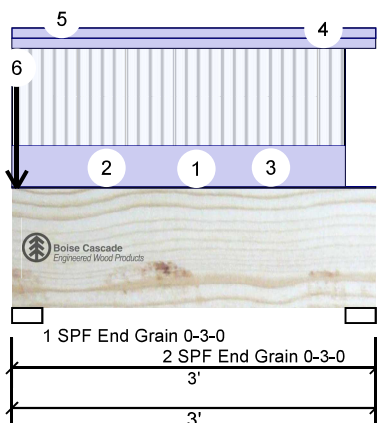


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Nov 03 2023

Client: GREENPARK
Project: VORRA ESTATES
14VVA, ON

Input by: W C
Job Name: VILLA 5-3 DC
Project #:

FH6 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	1191	906	285	0
2	Vertical	482	348	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	29%	1133 / 2072	3204	L	1.25D+1.5L+S
2 - SPF End Grain	3.000"	Vert	11%	435 / 723	1157	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	775 ft-lb	1'6"	35392 ft-lb	0.022 (2%)	1.25D+1.5L	L
Unbraced	775 ft-lb	1'6"	35392 ft-lb	0.022 (2%)	1.25D+1.5L	L
Shear	1077 lb	1'9 1/8"	13217 lb	0.082 (8%)	1.25D+1.5L	L
Perm Defl in. (L/95986)	0.000	1'6"	0.088 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch (L/64562)	0.000	1'6"	0.088 (L/360)	0.006 (1%)	L+0.5S	L
TL Defl inch (L/38599)	0.001	1'6"	0.131 (L/240)	0.006 (1%)	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 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.
- 7 Lateral slenderness ratio based on full section width.



JULY 19, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-0-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
2	Tapered Start	0-0-0		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	3-0-0			0 PLF	1 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 2-9-0		Near Face	163 PLF	384 PLF	0 PLF	0 PLF	J2

Continued on page 2...

Notes

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Lumber

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

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

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Client:

Project:

Nov 03 2023

GREENPARK

JORRA ESTATES
14VVA, ON

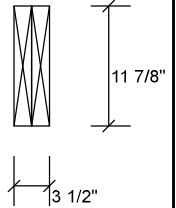
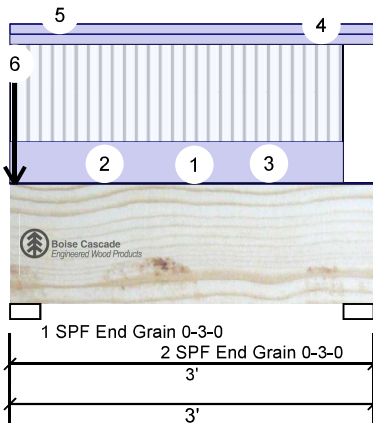
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Job Name: VILLA 5-3 DC

Project #:

Page 3 of 5

FH6 Versa-Lam LVL 2.1F E3100-SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Part. Uniform	0-0-0 to 3-0-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
5	Part. Uniform	0-0-0 to 3-0-0		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Point	0-0-8		Top	518 lb	614 lb	285 lb	0 lb	Header Column Header Column
	Bearing Length	0-3-8							
	Self Weight				12 PLF				



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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. 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

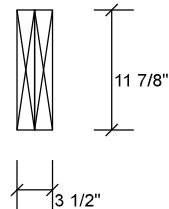
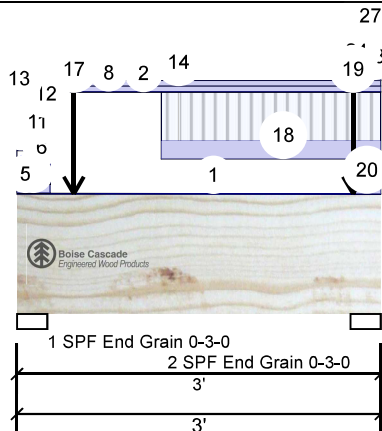


This design is valid until 4/17/2026



Input by: W C
Job Name: VILLA 5-3 DC
Project #:

FH6-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	1056	827	236	0
2	Vertical	1066	871	244	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L	lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	30%	1034 / 1820	2854	L		1.25D+1.5L +S
2 - SPF End Grain	3.000"	Vert	27%	1089 / 1843	2932	L		1.25D+1.5L +S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	865 ft-lb	1'4 1/4"	35392 ft-lb	0.024 (2%)	1.25D+1.5L +S	L
Unbraced	865 ft-lb	1'4 1/4"	35392 ft-lb	0.024 (2%)	1.25D+1.5L +S	L
Shear	1375 lb	1'2 7/8"	13217 lb	0.104 (10%)	1.25D+1.5L +S	L
Perm Defl in.	0.000 (L/82054)	1'5 3/16"	0.088 (L/360)	0.004 (0%)	D	Uniform
LL Defl inch	0.001 (L/57179)	1'5 5/16"	0.088 (L/360)	0.006 (1%)	L+0.5S	L
TL Defl inch	0.001 (L/33698)	1'5 5/16"	0.131 (L/240)	0.007 (1%)	D+L+0.5S	L

Design Notes

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



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Notes

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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

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www.bc.com
CCMC: 12472

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3228 Moodie Dr, Ottawa, Ontario
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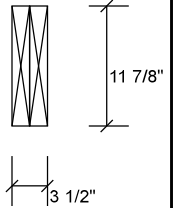
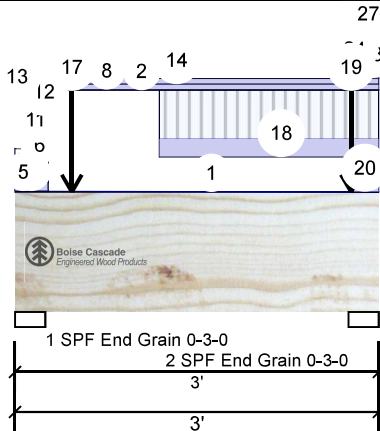
Client: GREENPARK
Project: JORRA ESTATES
14VVA, ON

MHP 23036

Input by: W C
Job Name: VILLA 5-3 DC
Project #:

Page 5 of 5

FH6-A Versa-Lam LVL 2.1E-3100 SP 1.750" X 11.875" 2-Ply - PASSED Level: Ground Floor



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tapered Start	0-0-0		Near Face	2 PLF	4 PLF	0 PLF	0 PLF	
	End	3-0-0			0 PLF	1 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 3-0-0		Near Face	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
4	Part. Uniform	0-0-0 to 0-3-4		Top	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
5	Part. Uniform	0-0-0 to 0-3-4		Top	64 PLF	130 PLF	0 PLF	0 PLF	J1
6	Part. Uniform	0-0-0 to 0-3-4		Top	30 PLF	0 PLF	80 PLF	0 PLF	
7	Part. Uniform	0-0-0 to 0-3-4		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Part. Uniform	0-0-0 to 3-0-0		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
10	Part. Uniform	0-0-0 to 0-3-4		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
11	Part. Uniform	0-0-0 to 0-3-4		Near Face	64 PLF	130 PLF	0 PLF	0 PLF	J1
12	Part. Uniform	0-0-0 to 0-3-4		Near Face	30 PLF	0 PLF	80 PLF	0 PLF	
13	Part. Uniform	0-0-0 to 0-3-4		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
14	Part. Uniform	0-0-0 to 3-0-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
17	Point	0-5-10		Top	607 lb	902 lb	216 lb	0 lb	Header Column Header Column F4
	Bearing Length	0-3-8							
18	Part. Uniform	1-2-4 to 3-0-0		Near Face	131 PLF	349 PLF	0 PLF	0 PLF	J1
19	Point	2-9-4		Top	434 lb	432 lb	221 lb	0 lb	Header Column Header Column Header Column Header Column
	Bearing Length	0-3-8							
20	Part. Uniform	2-9-4 to 3-0-0		Top	80 PLF	170 PLF	0 PLF	0 PLF	J1
22	Part. Uniform	2-9-4 to 3-0-0		Top	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
23	Part. Uniform	2-9-4 to 3-0-0		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
24	Part. Uniform	2-9-4 to 3-0-0		Near Face	80 PLF	170 PLF	0 PLF	0 PLF	J1
26	Part. Uniform	2-9-4 to 3-0-0		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
27	Part. Uniform	2-9-4 to 3-0-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	Self Weight				12 PLF				

Notes

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Lumber

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

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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Boise, ID 83702
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CCMC: 12472

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



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Client:

GREENPARK

Project:

VORRA ESTATES

14V/A, ON

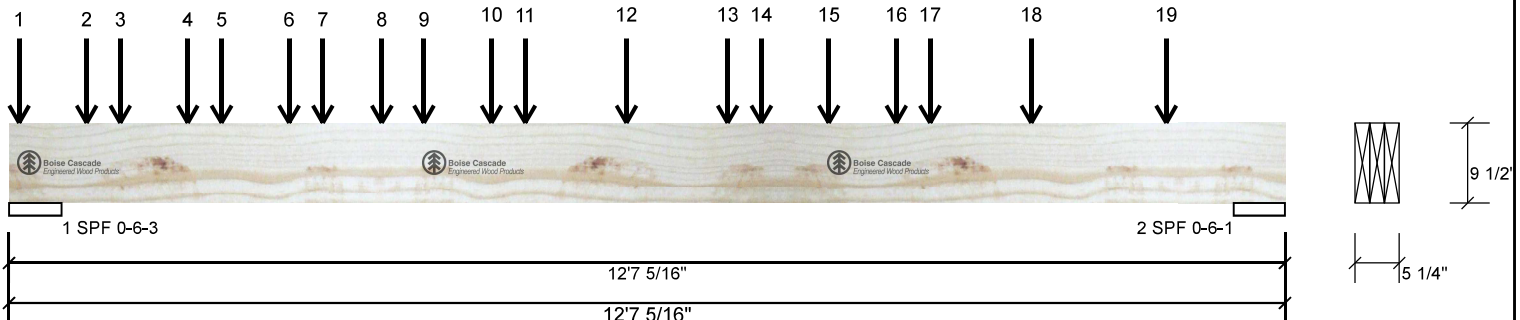
Input by: W C

Job Name: VILLA 5-3 STD

Project #:



PERMIT

B10 Versa-Lam LVL 2.1F 3400-SP 12'7 5/16" X 9.500" 3-Ply - PASSED Level: Second Floor

Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	3	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection LL:	360	Load Sharing:	Yes
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	4329	1950	0	0
2	Vertical	4088	1711	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	6.217"	Vert	44%	2438 / 6494	8932	L	1.25D+1.5L
2 - SPF	6.080"	Vert	42%	2138 / 6132	8270	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	24869 ft-lb	6'1 3/16"	36222 ft-lb	0.687 (69%)	1.25D+1.5L	L
Unbraced	24869 ft-lb	6'1 3/16"	36222 ft-lb	0.687 (69%)	1.25D+1.5L	L
Shear	7968 lb	11'3 11/16"	15860 lb	0.502 (50%)	1.25D+1.5L	L
Perm Defl in.	0.165 (L/853)	6'3 3/8"	0.390 (L/360)	0.422 (42%)	D	Uniform
LL Defl inch	0.384 (L/366)	6'3 11/16"	0.390 (L/360)	0.983 (98%)	L	L
TL Defl inch	0.548 (L/256)	6'3 9/16"	0.585 (L/240)	0.937 (94%)	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 bearings.
- 8 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	0-1-3		Top	81 lb	166 lb	0 lb	0 lb	J1
	Bearing Length	0-3-8							
2	Point	0-9-3		Top	160 lb	370 lb	0 lb	0 lb	J2
	Bearing Length	0-3-8							

Continued on page 2...

Notes

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Lumber

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

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

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



Nov 03 2023

Project

JORRA ESTATES
14VVA, ON

Input by: W C

Job Name: VILLA 5-3 STD

Project #:



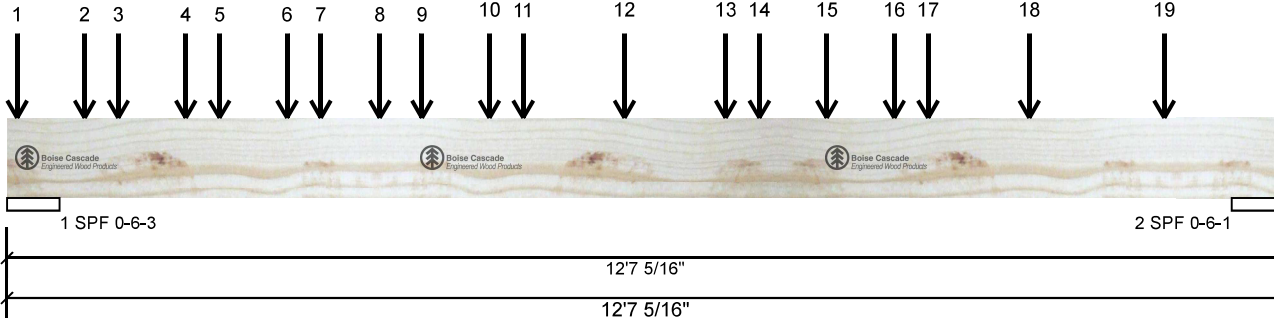
PERMIT SPECIAL

B10 Versa-Lam LVL 2.1F 3400-SP 1.750" X 9.500" 3-Ply - PASSED Level: Second Floor

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JULY 19, 2023



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
3	Point	1-1-3		Top	158 lb	335 lb	0 lb	0 lb	J1
	Bearing Length	0-3-8							
4	Point	1-9-3		Top	160 lb	370 lb	0 lb	0 lb	J2
	Bearing Length	0-3-8							
5	Point	2-1-3		Top	158 lb	335 lb	0 lb	0 lb	J1
	Bearing Length	0-3-8							
6	Point	2-9-3		Top	154 lb	355 lb	0 lb	0 lb	J2
	Bearing Length	0-3-8							
7	Point	3-1-3		Top	158 lb	335 lb	0 lb	0 lb	J1
	Bearing Length	0-3-8							
8	Point	3-8-3		Top	166 lb	370 lb	0 lb	0 lb	J2
	Bearing Length	0-3-8							
9	Point	4-1-3		Top	159 lb	338 lb	0 lb	0 lb	J1
	Bearing Length	0-3-8							
10	Point	4-9-3		Top	178 lb	447 lb	0 lb	0 lb	J2
	Bearing Length	0-3-8							
11	Point	5-1-3		Top	140 lb	338 lb	0 lb	0 lb	J1
	Bearing Length	0-3-8							
12	Point	6-1-3		Top	325 lb	832 lb	0 lb	0 lb	J2 J1
	Bearing Length	0-3-8							
13	Point	7-1-3		Top	140 lb	338 lb	0 lb	0 lb	J1
	Bearing Length	0-3-8							
14	Point	7-5-3		Top	185 lb	494 lb	0 lb	0 lb	J2
	Bearing Length	0-3-8							
15	Point	8-1-3		Top	139 lb	335 lb	0 lb	0 lb	J1
	Bearing Length	0-3-8							
16	Point	8-9-3		Top	185 lb	494 lb	0 lb	0 lb	J2
	Bearing Length	0-3-8							
17	Point	9-1-3		Top	139 lb	335 lb	0 lb	0 lb	J1
	Bearing Length	0-3-8							

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
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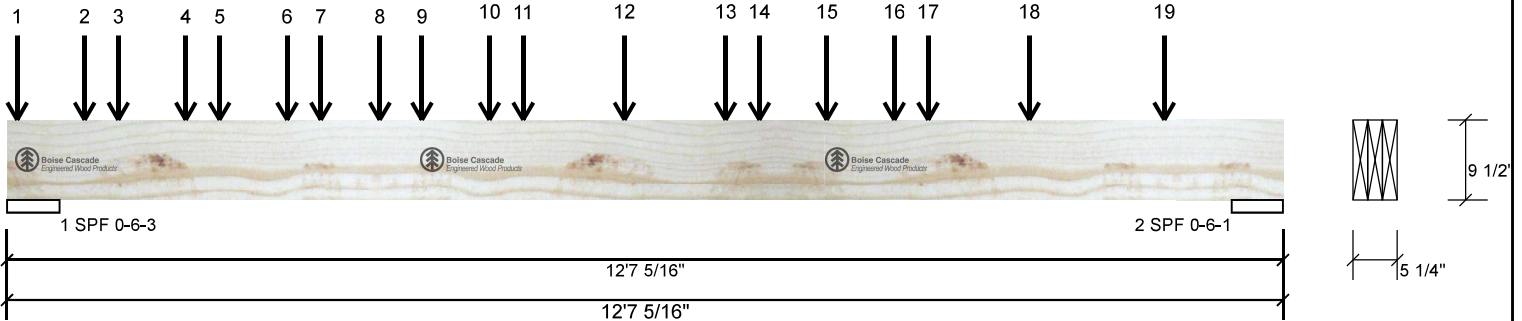
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14VVA, ON

Input by: W C
Job Name: VILLA 5-3 STD
Project #:

Page 28 of 37

B10 Versa-Lam LVL 2.1F 3400-SP 1.750" X 9.500" 3-Ply - PASSED

Level: Second Floor



...Continued from page 2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
18	Point	10-1-3		Top	343 lb	887 lb	0 lb	0 lb	J1 J2
	Bearing Length	0-3-8							
19	Point	11-5-3		Top	354 lb	943 lb	0 lb	0 lb	J1 J2
	Bearing Length	0-3-8							
	Self Weight				14 PLF				



JULY 19, 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
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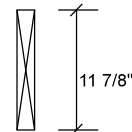
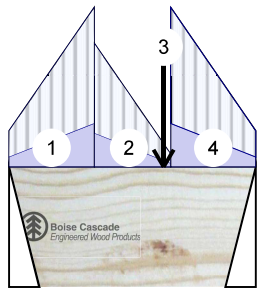
Client: GREENPARK
Project: VORRA ESTATES
Nov 03 2023

PER: [Signature]
2440 E. 10th Ave. S. Suite 100
Boise, ID 83702

VORRA ESTATES
1414A, ON

Input by: W C
Job Name: VILLA 5-3 STD
Project #:

F12 Versa-Lam VL 24E 3100 SP 1.750" X 11.875" - PASSED Level: Second Floor



11 7/8"

1 3/4"

1 Hanger (SUR/L1.81/9 (Min)) 0-3-0
2' 7/16"
2' 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	14	11	0	0
2	Vertical	17	12	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	1%	14 / 21	35	L	1.25D+1.5L
2 - Hanger	3.000"	Vert	1%	15 / 25	40	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	16 ft-lb	1'3 5/16"	17696 ft-lb	0.001 (0%)	1.25D+1.5L	L
Unbraced	16 ft-lb	1'3 5/16"	17696 ft-lb	0.001 (0%)	1.25D+1.5L	L
Shear	16 lb	9 9/16"	6608 lb	0.002 (0%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/2911345)	1' 3/4"	0.055 (L/360)	0.000 (0%)	D	Uniform
LL Defl inch	0.000 (L/2019394)	1'1 3/16"	0.055 (L/360)	0.000 (0%)	L	L
TL Defl inch	0.000 (L/1192891)	1'1"	0.083 (L/240)	0.000 (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.
- Top must be continuously laterally braced.
- Bottom must have sheathing attached or be continuously braced.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-8-7	0-1-4 to 0-5-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-8-7 to 1-4-0	0-4-4 to 0-0-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-3-5		Far Face	4 lb	10 lb	0 lb	0 lb	J7
4	Tie-In	1-4-0 to 2-0-7	0-5-7 to 0-1-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

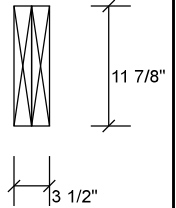
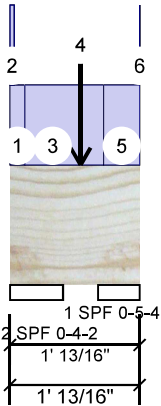
Boise Cascade Wood Products
1111 W. Jefferson St.
Boise, ID 83702
(800) 232-0788
www.bc.com
CCMC: 12472

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





F13 Versa-Lam LVL 2-1F 3400 SP 1.750" X 11.875" 2-Ply - PASSED Level: Second Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	64	80	0	0
2	Vertical	65	69	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	2%	100 / 97	197	L	1.25D+1.5L
2 - SPF	4.125"	Vert	2%	86 / 97	183	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	29 ft-lb	7"	34330 ft-lb	0.001 (0%)	1.25D+1.5L	L
Unbraced	29 ft-lb	7"	34330 ft-lb	0.001 (0%)	1.25D+1.5L	L
Shear	108 lb	-(3 3/16")	12820 lb	0.008 (1%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/2493078)	7"	0.014 (L/360)	0.000 (0%)	D	Uniform
LL Defl inch	0.000 (L/1305590)	7"	0.014 (L/360)	0.000 (0%)	L	L
TL Defl inch	0.000 (L/856863)	7"	0.021 (L/240)	0.000 (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.
- 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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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 0-1-7		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 0-0-7		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-1-7 to 0-9-4		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Point	0-7-0		Far Face	48 lb	129 lb	0 lb	0 lb	J4

Continued on page 2...

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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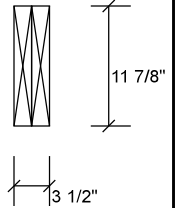
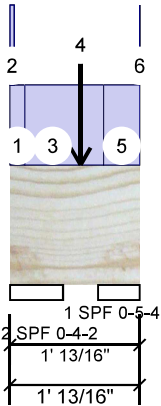
C. M. M. M.

JORRA ESTATES
1400 W. A. ON

Input by: W C

Job Name: VILLA 5-3 STD

Project #:


F13 Versa-Lam LVL 2-1F 3400 SP 1.750" X 11.875" 2-Ply - PASSED Level: Second Floor


...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Part. Uniform	0-9-4 to 1-0-13		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Part. Uniform	1-0-13 to 1-0-13		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	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

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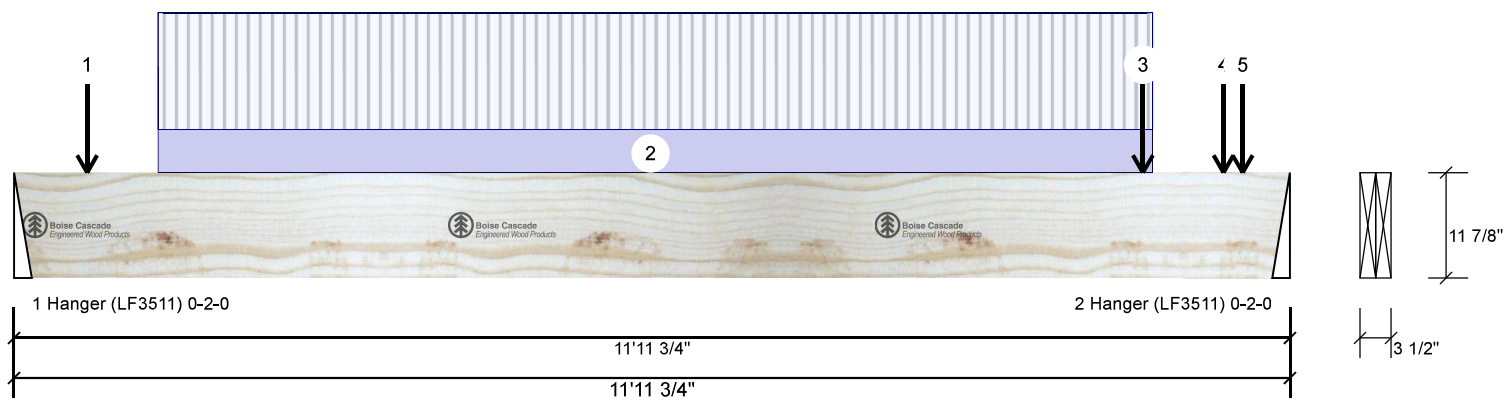
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Client: GREENPARK
Project: JORRA ESTATES
14V/A, ON
Nov 03 2023

Input by: W C
Job Name: VILLA 5-3 STD
Project #:

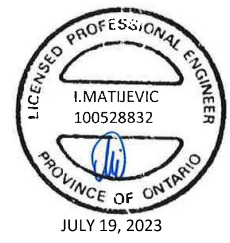
F17 Versa-Lam LVL 2-1F 3400 SP 1.750" X 11.875" 2-Ply - PASSED Level: Second Floor



Member Information				Unfactored Reactions UNPATTERNED lb (Uplift)							
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind		
Plies:	2	Design Method:	LSD	1	Vertical	328	193	0	0		
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	351	206	0	0		
Deflection LL:	360	Load Sharing:	No	Bearings and Factored Reactions							
Deflection TL:	240	Deck:	Not Checked								
Importance:	Normal - II	Vibration:	Not Checked								
General Load											
Floor Live:	40 PSF										
Dead:	15 PSF										
				Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 - Hanger	2.000"	Vert	10%	241 / 492	733	L	1.25D+1.5L

Analysis Results						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2200 ft-lb	6' 1/4"	35392 ft-lb	0.062 (6%)	1.25D+1.5L	L
Unbraced	2200 ft-lb	6' 1/4"	35392 ft-lb	0.062 (6%)	1.25D+1.5L	L
Shear	782 lb	10'9 7/8"	13217 lb	0.059 (6%)	1.25D+1.5L	L
Perm Defl in.	0.014 (L/10012)	6' 1/16"	0.392 (L/360)	0.036 (4%)	D	Uniform
LL Defl inch	0.024 (L/5809)	6'	0.392 (L/360)	0.062 (6%)	L	L
TL Defl inch	0.038 (L/3676)	6'	0.588 (L/240)	0.065 (7%)	D+L	L

Bearings and Factored Reactions							
Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	10%	241 / 492	733	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	10%	258 / 527	784	L	1.25D+1.5L



- Design Notes**
- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
 - 2 Fill all hanger nailing holes.
 - 3 Left Header: DF, Thickness: 3 1/2"
 - 4 Right Header: DF, Thickness: 3 1/2"
 - 5 Girders are designed to be supported on the bottom edge only.
 - 6 Multiple plies must be fastened together as per manufacturer's details.
 - 7 Top must be continuously laterally braced.
 - 8 Bottom must have sheathing attached or be continuously braced.
 - 9 Lateral slenderness ratio based on full section width.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-8-4		Far Face	23 lb	62 lb	0 lb	0 lb	J6
2	Part. Uniform	1-4-4 to 10-8-4		Far Face	21 PLF	57 PLF	0 PLF	0 PLF	
3	Point	10-7-3		Near Face	11 lb	14 lb	0 lb	0 lb	F12

Continued on page 2...

Notes Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.		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	
Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive chemicals									

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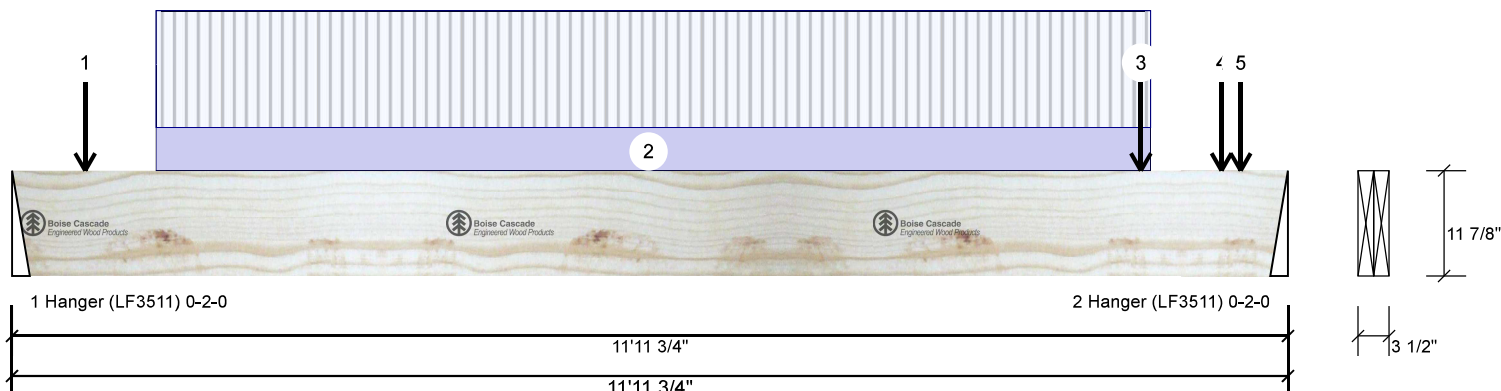
PERMIT NO. 135-KTF-GREEN PARK VILLAS - VILLA 5-3 STD

JORRA ESTATES
1414/14, ON

Input by: W C

Job Name: VILLA 5-3 STD

Project #:


F17 Versa-Lam LVL 2-1F 3400 SP 1.750" X 11.875" 2-Ply - PASSED Level: Second Floor


...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Point	11-4-4		Far Face	23 lb	60 lb	0 lb	0 lb	J6
5	Point	11-6-6		Near Face	4 lb	11 lb	0 lb	0 lb	J7
	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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1111 W. Jefferson St.
Boise, ID 83702
(800) 232-0788
www.bc.com
CCMC: 12472

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Client:

GREENPARK

Project:

JORRA ESTATES
14V/A, ON

MHP 23036

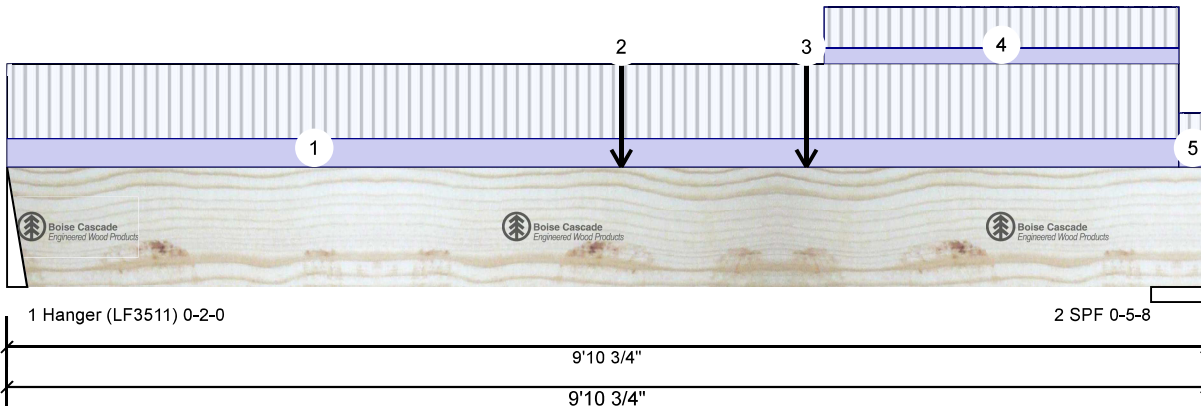
Input by: W C

Job Name: VILLA 5-3 STD

Project #:

Page 34 of 37

F8 Versa-Lam LVL 2-1E 2-100SP 1.750" X 11.875" 2-Ply - PASSED Level: Second Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	257	179	0	0
2	Vertical	429	276	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	8%	224 / 385	609	L	1.25D+1.5L
2 - SPF	5.500"	Vert	8%	345 / 644	989	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2373 ft-lb	6'7 1/8"	35392 ft-lb	0.067 (7%)	1.25D+1.5L	L
Unbraced	2373 ft-lb	6'7 1/8"	35392 ft-lb	0.067 (7%)	1.25D+1.5L	L
Shear	871 lb	8'5 3/8"	13217 lb	0.066 (7%)	1.25D+1.5L	L
Perm Defl in. (L/11998)	0.009	5'7/8"	0.313 (L/360)	0.030 (3%)	D	Uniform
LL Defl inch	0.014 (L/7852)	5'1 3/8"	0.313 (L/360)	0.046 (5%)	L	L
TL Defl inch	0.024 (L/4746)	5'1 3/16"	0.470 (L/240)	0.051 (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: 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 be laterally braced at a maximum of 4'10 5/16" o.c.
- 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	Tie-In	0-0-0 to 9-8-0	0-8-6	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	5-0-13		Far Face	12 lb	17 lb	0 lb	0 lb	F12
3	Point	6-7-2		Far Face	206 lb	351 lb	0 lb	0 lb	F17

Continued on page 2...

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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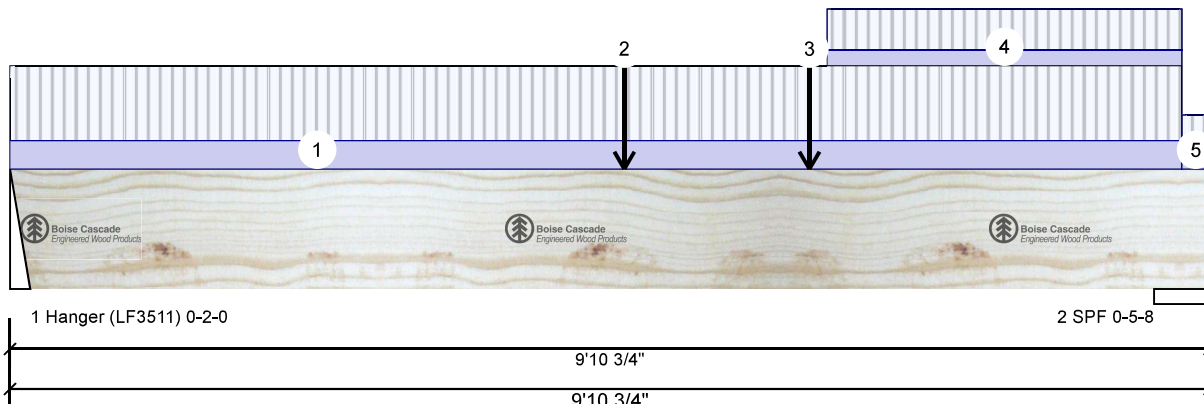
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Project:

GREENPARK
JORRA ESTATES
14VVA, ON

MHP 23036

Input by: W C
Job Name: VILLA 5-3 STD
Project #:

F8 Versa-Lam LVL 2-1E 2-100 SP 1.750" X 11.875" 2-Ply - PASSED Level: Second Floor



...Continued from page 1

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

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
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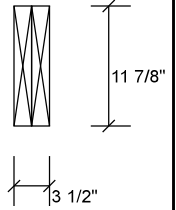
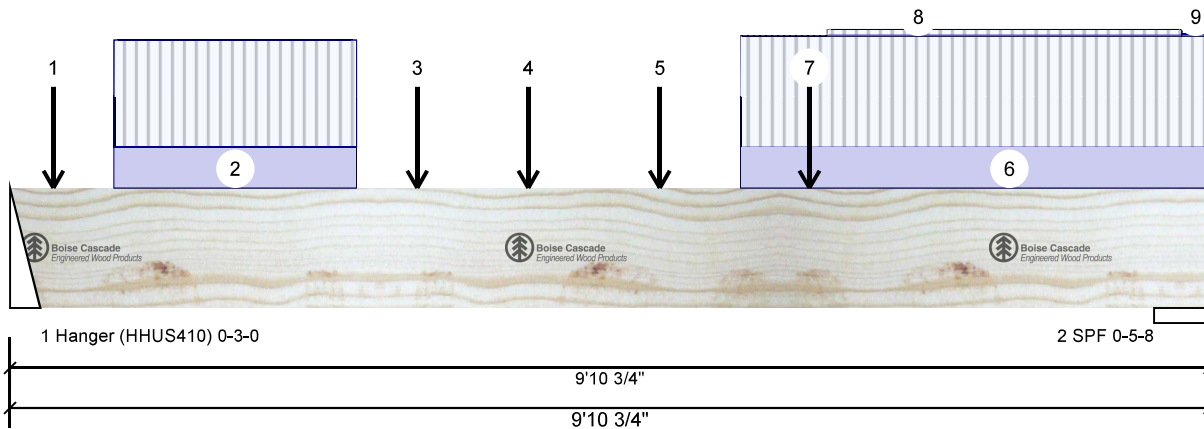
Client: GREENPARK
Project: JORRA ESTATES
14V/A, ON

MHP 23036

Input by: WC
Job Name: VILLA 5-3 STD
Project #:

F8-A Versa-Lam LVL 2-1E-3100-SP 1.750" X 11.875" 2-Ply - PASSED

Level: Second Floor



Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1901	809	0	0
2	Vertical	2166	927	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	34%	1012 / 2852	3864	L	1.25D+1.5L
2 - SPF	5.500"	Vert	37%	1159 / 3249	4408	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9390 ft-lb	5'4 5/16"	35392 ft-lb	0.265 (27%)	1.25D+1.5L	L
Unbraced	9390 ft-lb	5'4 5/16"	35392 ft-lb	0.265 (27%)	1.25D+1.5L	L
Shear	4324 lb	1'2 7/8"	13217 lb	0.327 (33%)	1.25D+1.5L	L
Perm Defl in.	0.031 (L/3656)	4'11"	0.310 (L/360)	0.098 (10%)	D	Uniform
LL Defl inch	0.071 (L/1582)	4'10 7/8"	0.310 (L/360)	0.228 (23%)	L	
TL Defl inch	0.101 (L/1104)	4'10 15/16"	0.466 (L/240)	0.217 (22%)	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 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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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-4-5		Far Face	120 lb	310 lb	0 lb	0 lb	J2
2	Part. Uniform	0-10-5 to 2-10-5		Far Face	142 PLF	368 PLF	0 PLF	0 PLF	
3	Point	3-4-5		Far Face	137 lb	353 lb	0 lb	0 lb	J2
4	Point	4-3-5		Far Face	143 lb	368 lb	0 lb	0 lb	J2

Continued on page 2...

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

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

TRUE COPY
OF PERMIT PLANS

Client:

Project:

Nov 03 2023

VORRA ESTATES
14VVA,ON

Input by: W C

Job Name: VILLA 5-3 STD

Project #:

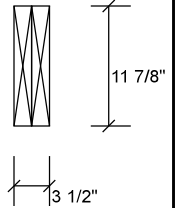
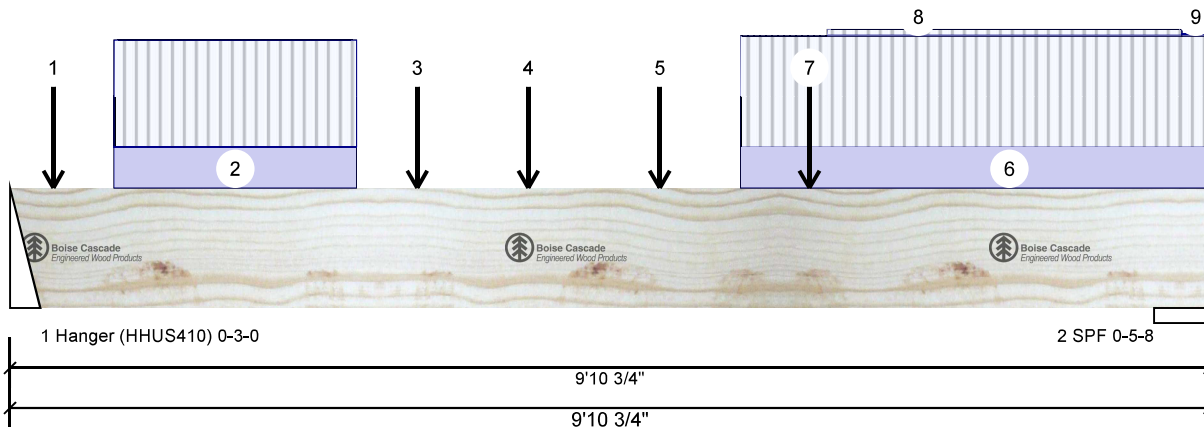
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MHP 23036

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

Level: Second Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Point	5-4-5		Far Face	169 lb	445 lb	0 lb	0 lb	J2
6	Part. Uniform	6-0-5 to 9-10-12		Far Face	143 PLF	381 PLF	0 PLF	0 PLF	
7	Point	6-7-2		Near Face	193 lb	328 lb	0 lb	0 lb	F17
8	Tie-In	6-8-14 to 9-8-0	0-5-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
9	Tie-In	9-8-0 to 9-10-12	0-6-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				12 PLF				



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

Notes

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

Lumber

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

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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