

**MHP 23035****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

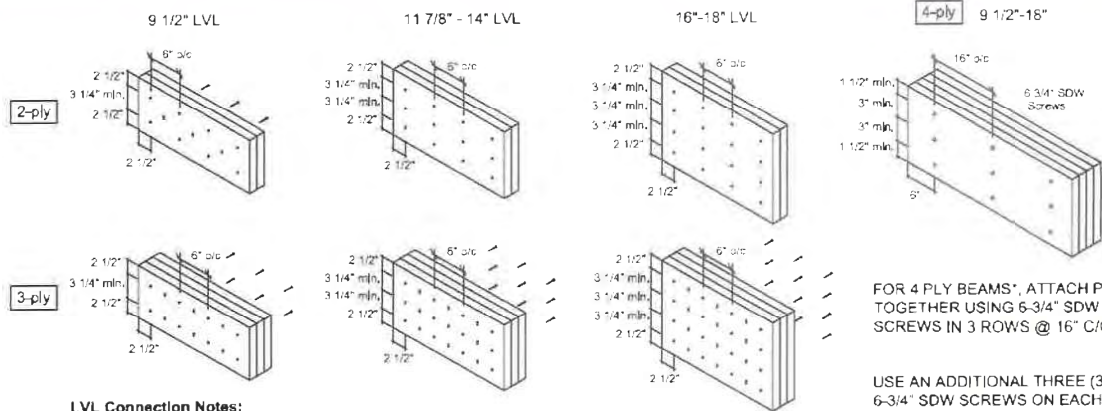
1. DO NOT DRILL ANY HOLE, CUT OR NOTCH A CERTIFIED BUILDING COMPONENT WITHOUT A WRITTEN PRE-AUTHORIZATION.
2. INSTALLATION AND ASSEMBLY OF FLOOR JOISTS AND LVL BEAMS IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUFACTURER'S LITERATURE.



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 PLYS TOGETHER USING 6-3/4" SDW SCREWS IN 3 ROWS @ 16" C/C.

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

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

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

Installation Guide



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

Last Revised January 13, 2023



Ground Floor

ENG-M0723-121-KTZ-GREENPARK-ZADORRA ESTATES-VILLA 3-3

Ground Floor LVL/LSL (Flush)							
Label	Description	Width	Depth	Qty	Pies	Pcs	Length
F14	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	3	2	6	16-0-0
F13	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	12-0-0
F12	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	8-0-0
FH5	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		
J8	AJS 140	2.5	11.875	14	16-0-0		
J5	AJS 140	2.5	11.875	20	14-0-0		
J3	AJS 140	2.5	11.875	15	12-0-0		
J9	AJS 140	2.5	11.875	9	8-0-0		
J2	AJS 140	2.5	11.875	5	2-0-0		
F6	AJS 140	2.5	11.875	4	16-0-0		
F5	AJS 140	2.5	11.875	3	14-0-0		
F7	AJS 140	2.5	11.875	3	4-0-0		

Rim Board							
Label	Description	Width	Depth	Pcs	Length		
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875	11	12-0-0		

Blocking							
Label	Description	Width	Depth	Qty	Pcs	Length	
BLK1	AJS 140	2.5	11.875	14	16-0-0		

Hanger							
Label	Pcs	Description	Beam/Girder fasteners	Supported Member fasteners			
H1	29	LF2511	12 10d x 1 1/2	1 #8 x 1 1/4 WS			
H2	3	LF3511	12 10d	2 #8 x 1 1/4 WS			

JOB INFORMATION	
Builder	GREENPARK
Project	ZADORRA ESTATES OSHAWA, ON
Shipping	
Sales Rep	RALPH MIRIGELLO
Designer	
Plotted	July 18, 2023
Layout Name	VILLA 3-3 STD
Job Path	8:\CUSTOMERS\GREENPARK\ZADORRA ESTATES MODELS\BILLA 3-3\F-VILLA 3-3\BILLA 3-3 STD.rvt

DESIGN CRITERIA	
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 Woodle Dr. Ottawa 14 Anderson Blvd. Unbridge Ontario 613-838-2775 / 905-642-4400	
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- All blocking to be cut from 12' joists
- 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
- Ends of joists to be laterally supported
- Packing of Steel beams and attachment by others
- Shower and water closet flange locations are approximate only; consult architectural drawing for exact locations
- Beams identified as "B" are dropped and supplied by others
- Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
- Load transfer blocks to be installed under all point loads
- Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements
- Hangers and Fasteners to be installed as per manufacturer
- Framing shown on this layout may deviate from architectural drawings. Arch / Eng to review and approve the deviation prior to construction.
- Multi ply beams with side loading to have all fasteners installed with the head on the side of the applied load.
- Confirmation of adequate support & anchorage of components is the responsibility of the building designer; suggested uplift connectors are as shown
- 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

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

Installation Guide



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

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)	



Ground Floor

ENG-M0724-14-KT-GREENPARK-ZADORRA ESTATES-VILLA 3-3

1. All blocking to be cut from 12" joists
2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
3. Ends of joists to be laterally supported
4. Packing of Steel beams and attachment by others
5. Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations
6. Beams identified as "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
F14	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	3	2	6 16-0-0
F13	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2 12-0-0
F12	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2 8-0-0
FH5	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	
J8	AJS 140	2.5	11.875	17	16-0-0	
J5	AJS 140	2.5	11.875	22	14-0-0	
J3	AJS 140	2.5	11.875	13	12-0-0	
J9	AJS 140	2.5	11.875	9	8-0-0	
J2	AJS 140	2.5	11.875	5	2-0-0	
F6	AJS 140	2.5	11.875	2	16-0-0	
F5	AJS 140	2.5	11.875	1	14-0-0	
F2	AJS 140	2.5	11.875	1	4-0-0	
Rim Board						
Label	Description	Width	Depth	Pcs	Length	
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875	11	12-0-0	
Blocking						
Label	Description	Width	Depth	Qty	Pcs	Length
BLK1	AJS 140	2.5	11.875	Varies	37-0-0	
Hanger						
Label	Pcs	Description	Beam/Girder fasteners	Supported Member fasteners		
H1	21	LF2511	12 10dx1 1/2	1 #8x1 1/4WS		
H2	3	LF3511	12 10d	2 #8x1 1/4WS		

JOB INFORMATION	
Builder	GREENPARK
Project	ZADORRA ESTATES OSHAWA, ON
Sales Rep	RALPH MIRIGELLO
Designer	W.C.
Plotted	July 18, 2023
Layout Name	VILLA 3-3 WOC
Job Path	S:\CUSTOMERS\GREENPARK\ZADORRA ESTATES WOODLEVILLA 3\WILLA 3-3\F-VILLA 3-3\WOC\WILLA 3-3 WOC.dwg

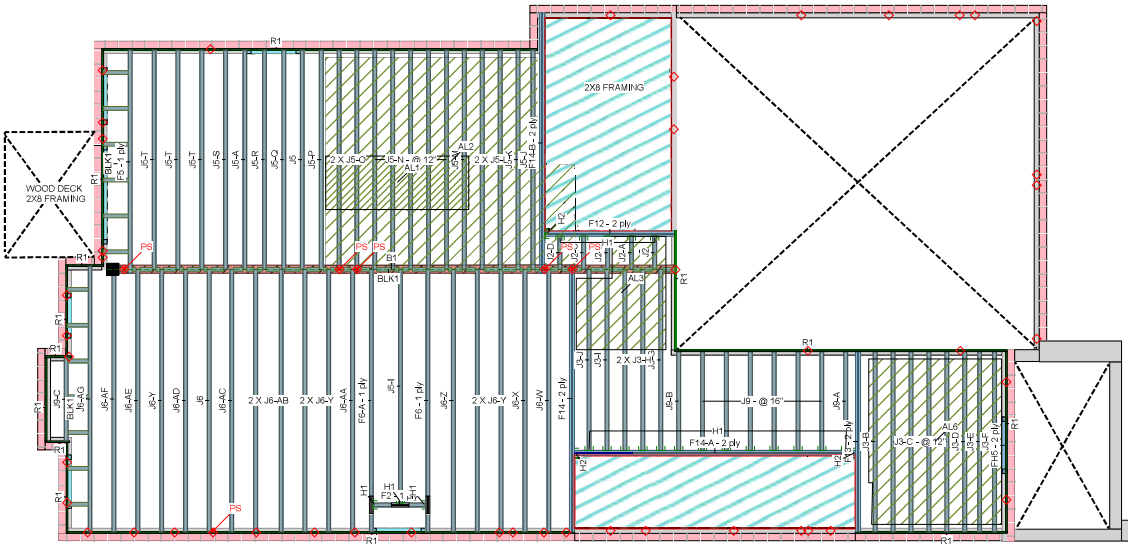
DESIGN CRITERIA	
Ground Floor	LSD (Canada)
Design Method	NBCC 2015
Bulking Code	OBC 2012(2020 Update)

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 Woodle Dr. Ottawa	
14 Anderson Blvd. Uxbridge	
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)	





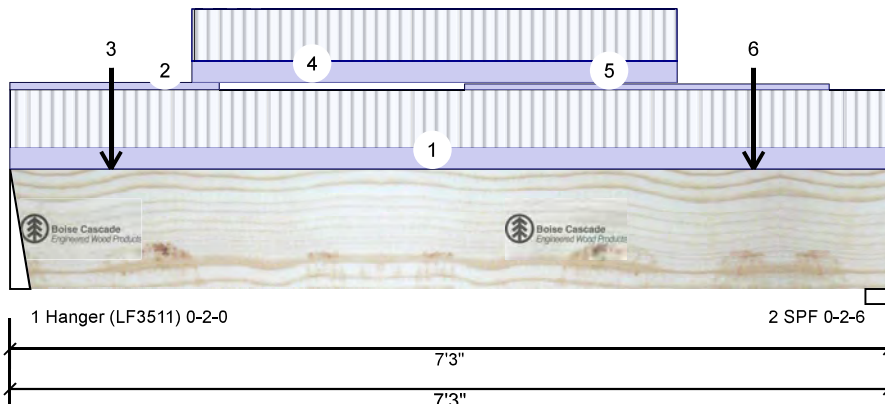
Client: GREENPARK  
Project: OF PERMIT PLANS  
Add: Nov 04 2023 TATES

Date: 7/18/2023

Input by: W C  
Job Name: VILLA 3-3 STD

Project #:

F12	Versa-Lam LVL 2.1E	3100 SP	1.750" X 11.875"	2-Ply - PASSED	Level: Ground Floor
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### Unfactored Reactions UNPATTERNED lb (Uplift)

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		

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	262	159	0	0
2	Vertical	255	156	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%	199 / 393	592	L	1.25D+1.5L
2 - SPF	2.375"	Vert	11%	195 / 382	577	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1032 ft-lb	3'7 1/2"	35392 ft-lb	0.029 (3%)	1.25D+1.5L	L
Unbraced	1032 ft-lb	3'7 1/2"	35392 ft-lb	0.029 (3%)	1.25D+1.5L	L
Shear	491 lb	1'1 7/8"	13217 lb	0.037 (4%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/34730)	3'7 7/16"	0.234 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.004 (L/20527)	3'7 5/16"	0.234 (L/360)	0.018 (2%)	L	L
TL Defl inch	0.007 (L/12901)	3'7 3/8"	0.351 (L/240)	0.019 (2%)	D+L	L

## Design Notes

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



JULY 19, 2023

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

## 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

### 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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This design is valid until 4/17/2026





CORPORATION OF THE CITY OF OSHAWA  
 ENG-M0723-121-K F-GREENPARK-ZADORRA ESTATES-VILLA 3-3  
 Client: GREENPARK  
 Project: TRUE COPY OF PERMIT PLANS  
 Add: Nov 04 2023  
 TATES

Date: 7/18/2023

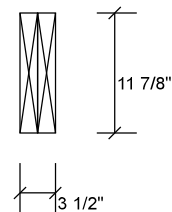
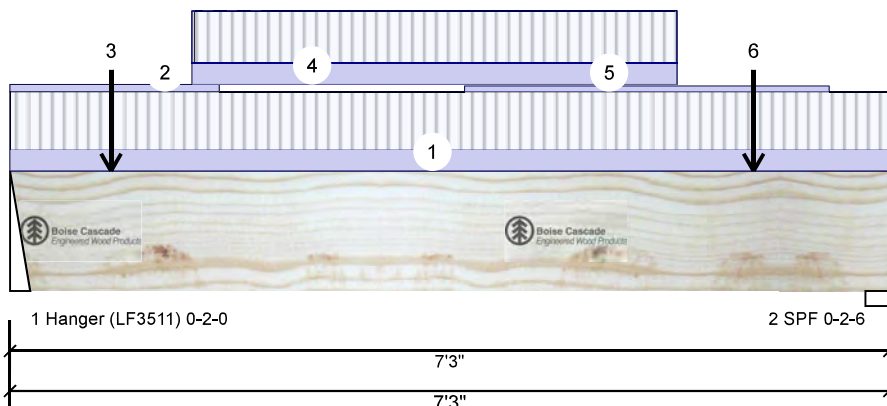
Input by: W.C.

Job Name: VILLA 3-3 STD

Project #:

MHP 23035

F12 Versa-Lam LVL 2.1E 8100 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 7-3-0	1-0-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 1-8-11		Top	5 PLF	0 PLF	0 PLF	0 PLF	
3	Point	0-10-0		Near Face	20 lb	42 lb	0 lb	0 lb	J2
4	Part. Uniform	1-6-0 to 5-6-0		Near Face	15 PLF	36 PLF	0 PLF	0 PLF	
5	Part. Uniform	3-9-0 to 6-9-1		Top	4 PLF	0 PLF	0 PLF	0 PLF	
6	Point	6-1-10		Near Face	20 lb	41 lb	0 lb	0 lb	J2
	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

**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

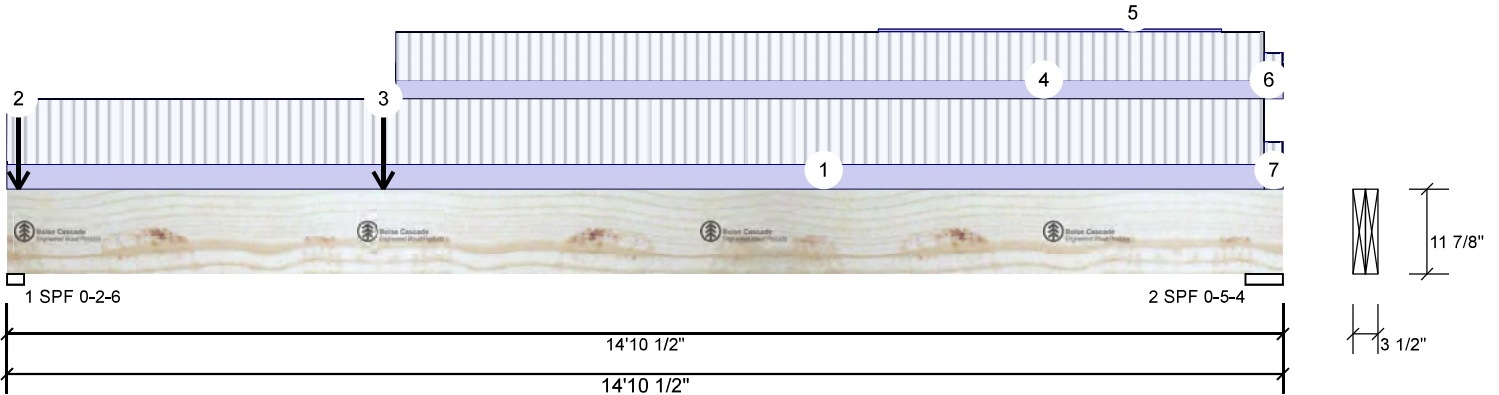








Level: Ground Floor



### Unfactored Reactions UNPATTERNED Ib (Uplift)

Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind		
Plies:	2	Design Method:	LSD	1	Vertical	2029	1041	0	0		
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	712	391	0	0		
Deflection LL:	360	Load Sharing: Deck: Vibration:	No Not Checked Not Checked	<b>Bearings and Factored Reactions</b>							
Deflection TL:	240										
Importance:	Normal - II										
General Load											
Floor Live:	40 PSF										
Dead:	15 PSF										
				Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 - SPF	2.375"	Vert	85%	1302 / 3043	4345	L	1.25D+1.5L
				2 - SPF	5.250"	Vert	14%	489 / 1068	1557	L	1.25D+1.5L

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	10111 ft-lb	4'4 11/16"	35392 ft-lb	0.286 (29%)	1.25D+1.5L	L
Unbraced	10111 ft-lb	4'4 11/16"	35392 ft-lb	0.286 (29%)	1.25D+1.5L	L
Shear	2463 lb	1'2 1/4"	13217 lb	0.186 (19%)	1.25D+1.5L	L
Perm Defl in.	0.075 (L/2285)	6'10 1/16"	0.479 (L/360)	0.158 (16%)	D	Uniform
LL Defl inch	0.147 (L/1170)	6'9 5/16"	0.479 (L/360)	0.308 (31%)	L	L
TL Defl inch	0.223 (L/774)	6'9 9/16"	0.718 (L/240)	0.310 (31%)	D+L	L

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 2.375.
- 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 10'5 13/16" o.c.
- 8 Lateral slenderness ratio based on full section width.



JULY 19, 2023

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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 14-7-14	0-7-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-1-10		Top	436 lb	849 lb	0 lb	0 lb	C3
	Bearing Length	0-3-8							
3	Point	4-4-10		Near Face	600 lb	1314 lb	0 lb	0 lb	F14

Continued on page 2...

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## 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.  
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CORPORATION OF THE CITY OF OSHAWA  
 ENG-M0723-121-K F-GREENPARK-ZADORRA ESTATES-VILLA 3-3  
 Client: GREENPARK  
 Project: TRUE COPY OF PERMIT PLANS  
 Add: Nov 04 2023  
 TATES

Date: 7/18/2023

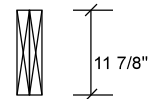
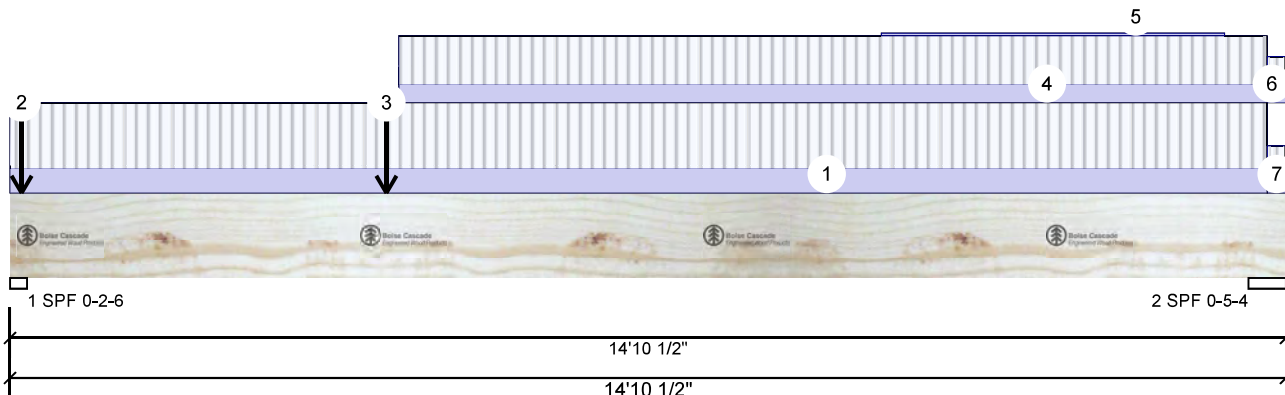
Input by: W.C.

Job Name: VILLA 3-3 STD

Project #:

MHP 23035

F14 Versa-Lam LVL 2.1E 8100 SP 1100 SP 1750" 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	Tie-In	4-6-6 to 14-7-14	0-5-12	Top	15 PSF	40 PSF	0 PSF	0 PSF	
5	Part. Uniform	10-1-14 to 14-1-14		Top	1 PLF	0 PLF	0 PLF	0 PLF	
6	Tie-In	14-7-14 to 14-10-8	0-3-15	Top	15 PSF	40 PSF	0 PSF	0 PSF	
7	Tie-In	14-7-14 to 14-10-8	0-4-1	Top	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				12 PLF				



JULY 19, 2023

READ ALL NOTES ON THIS PAGE AND ON THE  
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 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

**Manufacturer Info**

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

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



This design is valid until 4/17/2026













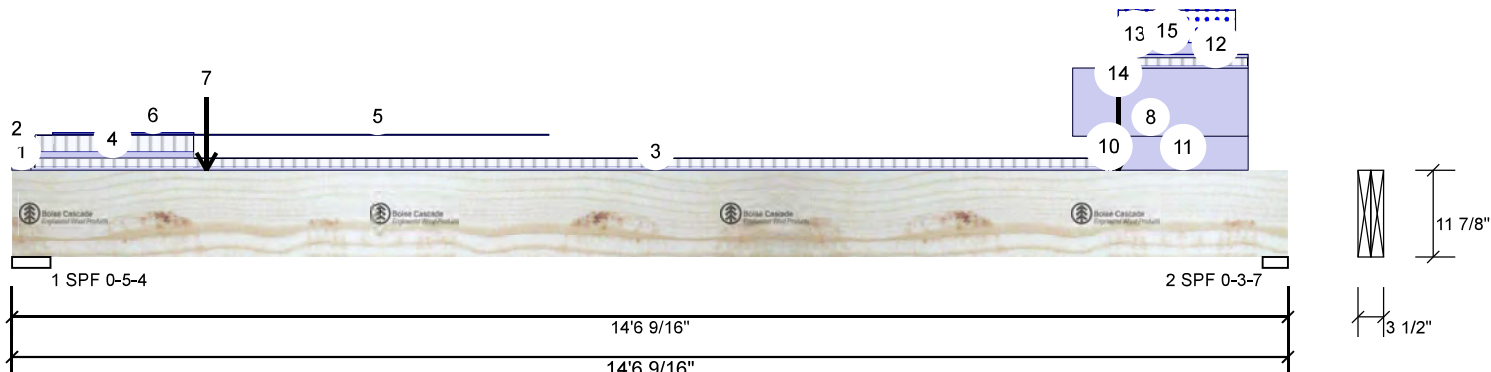




Client: GREENPARK  
Project: OF PERMIT PLANS  
Add: Nov 04 2023  
TATES

MHP 23035  
input by: WJC  
Job Name: VILLA 3-3 STD

F14-B	Versa-Lam LVL 2.1E	3100 SP	1.750" X 11.875"	2-Ply - PASSED	Level: Ground Floor
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...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Part. Uniform	0-5-9 to 6-1-7		Top	1 PLF	0 PLF	0 PLF	0 PLF	
6	Part. Uniform	0-5-9 to 2-0-14		Top	2 PLF	0 PLF	0 PLF	0 PLF	
7	Point	2-2-10		Near Face	159 lb	262 lb	0 lb	0 lb	F12
8	Part. Uniform	12-1-1 to 14-1-1		Top	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Tapered Start	12-6-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	
	End	12-6-0			0 PLF	1 PLF	0 PLF	0 PLF	
10	Part. Uniform	12-6-0 to 12-6-0		Top	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
11	Part. Uniform	12-6-9 to 14-1-1		Top	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
12	Tapered Start	12-6-9		Top	3 PLF	9 PLF	0 PLF	0 PLF	
	End	14-1-1			3 PLF	9 PLF	0 PLF	0 PLF	
13	Part. Uniform	12-6-9 to 14-1-1		Top	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
14	Point	12-7-5		Top	211 lb	0 lb	588 lb	0 lb	F10
	Bearing Length	0-5-8							
15	Part. Uniform	12-7-5 to 13-11-6		Top	14 PLF	0 PLF	38 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

## 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
--



This design is valid until 4/17/2026





Client: GREENPARK  
Project: OF PERMIT PLANS  
Add: Nov 04 2023  
TATES

*(Signature)*

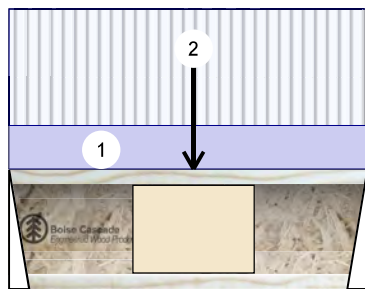
PER: \_\_\_\_\_

CHIEF BUILDING OFFICIAL

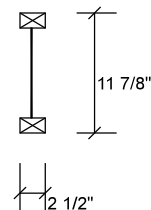
MHP 23035  
input by: WGC  
Job Name: VILLA 3.3 STD

F2	AJS 140	11.875"	PER: [REDACTED] CHIEF BUILDING OFFICIAL	Level: Ground Floor
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Level: Ground Floor



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



### Unfactored Reactions UNPATTERNED lb (Uplift)

Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	245	92	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	258	97	0	0
Deflection LL:	360								
Deflection TL:	240	Load Sharing:	No						
Importance:	Normal - II	Deck:	Not Checked						
General Load:		Vibration:	Not Checked						

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	30%	114 / 368	482	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	32%	121 / 387	508	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	614 ft-lb	1'6 1/4"	5305 ft-lb	0.116 (12%)	1.25D+1.5L	L
Unbraced	614 ft-lb	1'6 1/4"	5305 ft-lb	0.116 (12%)	1.25D+1.5L	L
Shear	501 lb	2'10 1/4"	2350 lb	0.213 (21%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/15620)	1'6 5/16"	0.092 (L/360)	0.023 (2%)	D	Uniform
LL Defl inch	0.006 (L/5840)	1'6 5/16"	0.092 (L/360)	0.062 (6%)	L	L
TL Defl inch	0.008 (L/4251)	1'6 5/16"	0.137 (L/240)	0.056 (6%)	D+L	L



JULY 19, 2023

## Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: 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.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-11-8	0-9-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	1-6-4		Far Face	154 lb	412 lb	0 lb	0 lb	J5

## Notes

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## Lumber

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

chemicals

## Handling & Installation

1. IJoist flanges must not be cut or drilled
2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged IJoists must not be used
4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

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

This design is valid until 4/17/2026

### Manufacturer Info

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

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













CORPORATION OF THE CITY OF OSHAWA  
ENG-M0723-121-K  
TRUE COPY OF PERMIT PLANS  
Nov 04 2023  
PER: [Signature]  
CHIEF ENGINEER

Client: GREENPARK  
Project: F-GREENPARK-ZADORRA ESTATES-VILLA 3-3  
Add: TATES  
Date: 7/18/2023  
Input by: W.C.  
Job Name: VILLA 3-3 STD  
Project #:  
MHP 23035

Page 17 of 46  
Page 13 of 34

F5 AJS 140 11.875" - PASSED

Level: Ground Floor

Member Information				Unfactored Reactions UNPATTERNED lb (Uplift)					
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	281	105	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	564	211	0	0
Deflection LL:	360	Load Sharing:	No	<b>Bearings and Factored Reactions</b>					
Deflection TL:	240	Deck:	Not Checked						
Importance:	Normal - II	Vibration:	Not Checked	Bearing	Length	Dir.	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
General Load				1 - SPF	2.625"	Vert	32% 132 / 422	554 L	1.25D+1.5L
Floor Live:	40 PSF			2 - SPF	2.375"	Vert	66% 264 / 846	1110 L	1.25D+1.5L
Dead:	15 PSF								

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1862 ft-lb	7' 3/8"	5305 ft-lb	0.351 (35%)	1.25D+1.5L	L
Unbraced	1862 ft-lb	7' 3/8"	5305 ft-lb	0.351 (35%)	1.25D+1.5L	L
Shear	1087 lb	12'1 3/16"	2350 lb	0.463 (46%)	1.25D+1.5L	L
Perm Defl in.	0.035 (L/4082)	6'5"	0.398 (L/360)	0.088 (9%)	D	Uniform
LL Defl inch	0.094 (L/1529)	6'5"	0.398 (L/360)	0.235 (24%)	L	
TL Defl inch	0.129 (L/1112)	6'5"	0.597 (L/240)	0.216 (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.
- 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 10'8 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 10-7-11	0-5-10	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-2-13	0-6-6	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	10-7-11 to 12-2-13	1-7-3	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	10-8-15		Far Face	106 lb	284 lb	0 lb	0 lb	F2

**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.

**Manufacturer Info**

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

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

This design is valid until 4/17/2026


Version 23.40.650 Powered by iStruct™ Dataset: 23062201.1

CSD | DRAW DESIGN BUILD









CORPORATION OF THE CITY OF OSHAWA  
ENG-M0723-121-K  
GREENPARK  
TRUE COPY OF PERMIT PLANS  
Nov 04 2023  
MHP 23035

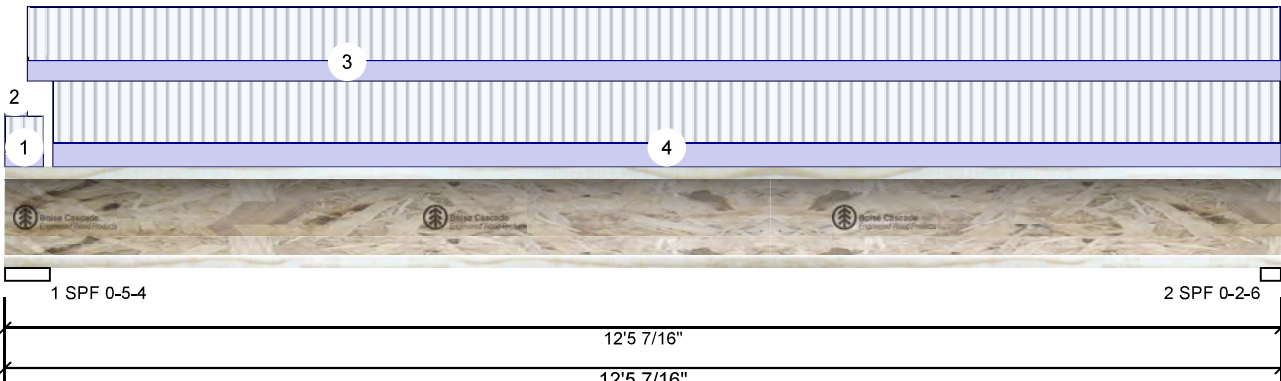
Client: TATES  
Project: F5-B  
Add: 11.875" CHIEF ENGINEER PASSED

Date: 7/18/2023  
Input by: W.C.  
Job Name: VILLA 3-3 STD  
Project #:

Level: Ground Floor

F5-B  
AJS 140  
11.875" CHIEF ENGINEER PASSED

Level: Ground Floor



11 7/8"

12'5 7/16"

12'5 7/16"


11 7/8"

Member Information				Unfactored Reactions UNPATTERNED lb (Uplift)					
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	353	132	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015 CBC 2012(2020 Update)	2	Vertical	351	131	0	0
Deflection LL:	360	Load Sharing:	No	<b>Bearings and Factored Reactions</b>					
Deflection TL:	240	Deck:	Not Checked						
Importance:	Normal - II	Vibration:	Not Checked						
General Load									
Floor Live:	40 PSF			Bearing	Length	Dir.	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
Dead:	15 PSF			1 - SPF	5.250"	Vert	36% 165 / 530	695 L	1.25D+1.5L

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2015 ft-lb	6'4 3/16"	5305 ft-lb	0.380 (38%)	1.25D+1.5L	L
Unbraced	2015 ft-lb	6'4 3/16"	5305 ft-lb	0.380 (38%)	1.25D+1.5L	L
Shear	675 lb	12'3 13/16"	2350 lb	0.287 (29%)	1.25D+1.5L	L
Perm Defl in.	0.037 (L/3845)	6'4 3/16"	0.398 (L/360)	0.094 (9%)	D	Uniform
LL Defl inch	0.099 (L/1442)	6'4 3/16"	0.398 (L/360)	0.250 (25%)	L	
TL Defl inch	0.137 (L/1049)	6'4 3/16"	0.597 (L/240)	0.229 (23%)	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 0-4-8	0-5-7	Top	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-2-10	0-2-9	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-2-10 to 12-5-7	0-8-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	0-5-10 to 12-5-7	0-9-3	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.


**Manufacturer Info**

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Version 23.40.650 Powered by iStruct™ Dataset: 23062201.1





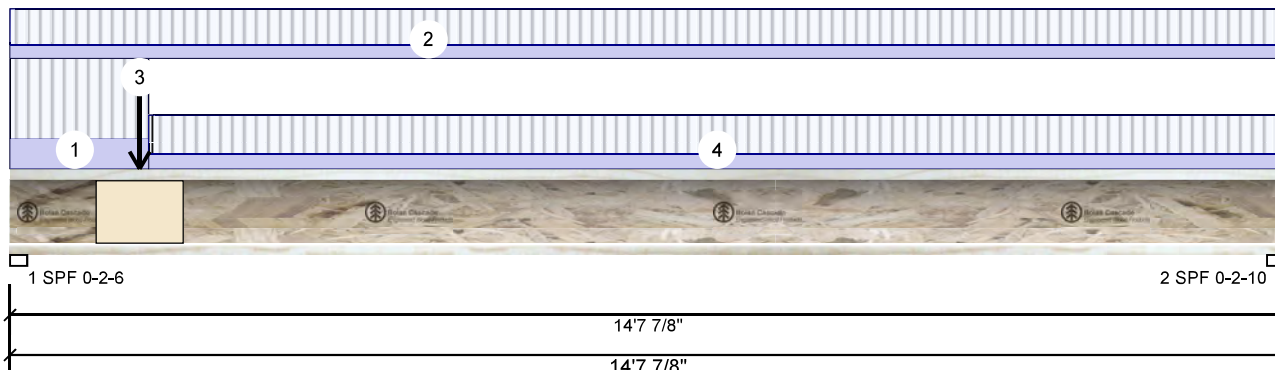


Client: GREENPARK  
Project: OF PERMIT PLANS  
Add: Nov 04 2023  
TATES

MHP 23035  
input by: WJC  
Job Name: VILLA 3-3 STD

F6	AJS 140	11.875
----	---------	--------

Level: Ground Floor



Technical drawing of a vertical member. The member is represented by two vertical lines with cross-hatched ends. The total height is dimensioned as  $11\frac{7}{8}"$ . The width of the member is dimensioned as  $2\frac{1}{2}"$ .

## 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	716	269	0	0
2	Vertical	461	173	0	0

## Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	84%	336 / 1074	1410	L	1.25D+1.5L
2 - SPF	2.625"	Vert	52%	216 / 691	907	L	1.25D+1.5L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3394 ft-lb	6'10 3/8"	5305 ft-lb	0.640 (64%)	1.25D+1.5L	L
Unbraced	3394 ft-lb	6'10 3/8"	5305 ft-lb	0.640 (64%)	1.25D+1.5L	L
Shear	1386 lb	1 5/8"	2350 lb	0.590 (59%)	1.25D+1.5L	L
Perm Defl in.	0.088 (L/1960)	7'1 15/16"	0.479 (L/360)	0.184 (18%)	D	Uniform
LL Defl inch	0.234 (L/735)	7'1 15/16"	0.479 (L/360)	0.490 (49%)	L	L
TL Defl inch	0.322 (L/535)	7'1 15/16"	0.718 (L/240)	0.449 (45%)	D+L	L



JULY 19, 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 a maximum of 13'2" 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 14-7-14	0-8-8	Top	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-14		Far Face	97 lb	258 lb	0 lb	0 lb	F2
4	Tie-In	1-7-2 to 14-7-14	0-9-4	Top	15 PSF	40 PSF	0 PSF	0 PSF	

## Notes

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## Lumber

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

chemicals

## Handling & Installation

1. Joist flanges must not be cut or drilled
2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details
3. Damaged Joists must not be used
4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes

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

This design is valid until 4/17/2026

### Manufacturer Info

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Boise, ID 83702  
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