<del>ineering Not</del>es: EWP-Floors

TRUE COPY OF PERMIT PLANS Nov 21 2023

MHP 23033



PLEASE REA

OR TO INSTALLATION OF THE COMPONENT

# RESPONSIBILTIES

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.
- 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.



# MHP 23033

ENG-IM0723-113-KTF-GREENPARK-ZADORRA ESTATES-VILLA 1-1

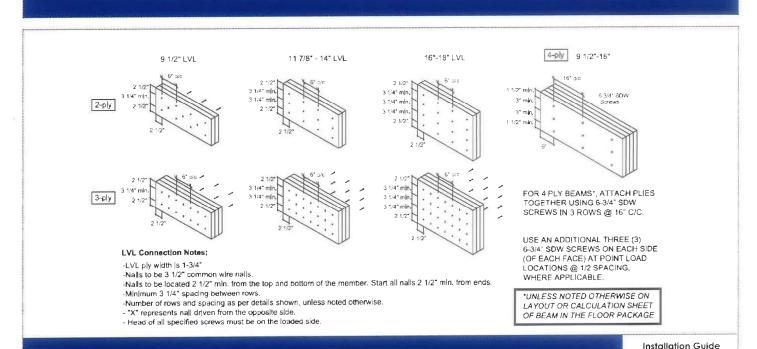
MULTIPLE MEMBER CONNECTIONS FOR UNIFORMLY DISTRIBUTED TOP & SIDE LOADED LVL BEAMS SHOWN ON KOTT LAYOUTS

Page 2 of 56

# KOTT

# MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS

1



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

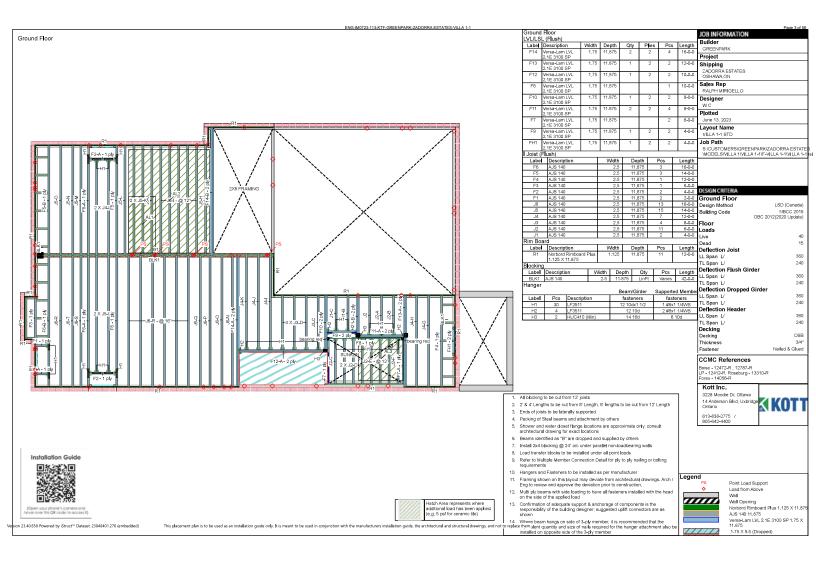


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Last Revised January 13, 2023

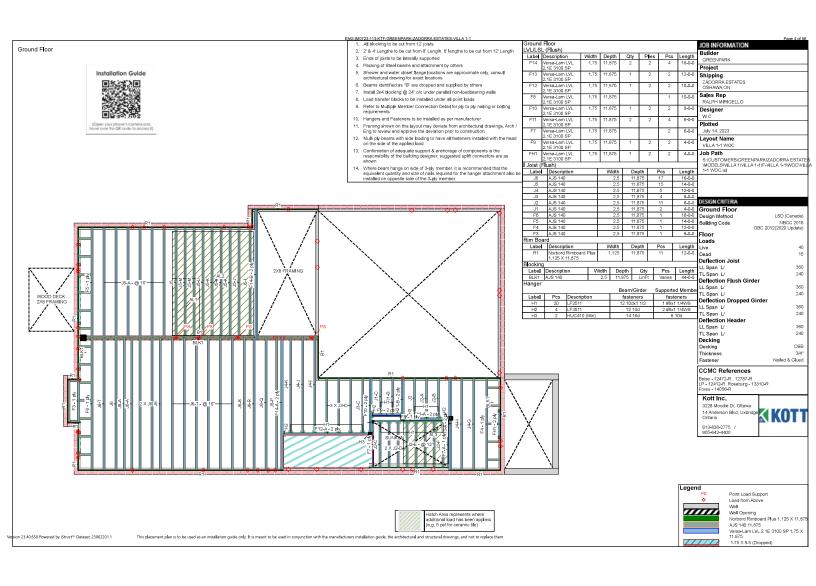


# MHP 23033





# MHP 23033





ZADORRACESTATES OF OSHAWA DSHAWA, ON

**GREENPARK** 

7/14/2023 Date: Input by: WC

Job Name: VILLA 1-1 STD

Project #

Level Grond Plog

**F1 AJS 140**  11.875" - PA



2 1 SPF 0-2-6 er (LF2511) 0-2-0 1'4 5/8'

11 7/8"

# Member Information

1'4 5/8'

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

15 PSF

**Unfactored Reactions UNPATTERNED lb (Uplift)** 

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	48	18	0	0
2	Vertical	43	16	0	0

# Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	20 ft-lb	8 1/2"	5305 ft-lb	0.004 (0%)	1.25D+1.5L	L
Unbraced	20 ft-lb	8 1/2"	5305 ft-lb	0.004 (0%)	1.25D+1.5L	L
Shear	73 <b>l</b> b	1 5/8"	2350 lb	0.031 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/230346)	8 1/2"	0.038 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/86380)	8 1/2"	0.038 (L/360)	0.004 (0%)	L	L
TL Defl inch	0.000 (L/62822)	8 1/2"	0.057 (L/240)	0.004 (0%)	D+L	L

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap. Re	act D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.	
1 - SPF	2.375"	Vert	6%	22 / 72	94	L	1.25D+1.5L	
2 - Hanger	2.000"	Vert	5%	20 / 64	84	L	1.25D+1.5L	
Hander								

### **Design Notes**

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

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

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

### Notes

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

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

# Handling & Installation

- Handling & Installation

  1. Noist flanges must not be cut or drilled

  2. Refer to latest copy of the Juoist product information details for framing details, stifferer tables, web hole chart, bridging details, multi-ray fastening details and handling/erection details

  3. Damaged Juoists must not be used

  4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

- Provide lateral support at bearing points to avoid lateral displacement and rotation
   Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
   For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

# Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

(800) 232-0788 www.bc.com CCMC: 12787

### Kott Inc.







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**GREENPARK** 

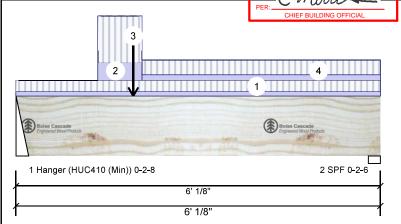
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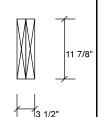
Job Name: VILLA 1-1 STD

Project #

# Versa-Lam LVL 2.1E 3100 SP

ESEPLeve 23003





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

### **Unfactored Reactions UNPATTERNED lb (Uplift)** Bra Direction Livo Doad

פיטן	Direction	LIVE	Deau	SHOW	VVIIIU
1	Vertical	231	137	0	0
2	Vertical	178	109	0	0

### Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	812 ft-lb	1'11 3/16"	35392 ft-lb	0.023 (2%)	1.25D+1.5L	L
Unbraced	812 ft-lb	1'11 3/16"	35392 ft-lb	0.023 (2%)	1.25D+1.5L	L
Shear	475 lb	1'2 3/8"	13217 <b>l</b> b	0.036 (4%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/58339)	2'10 7/16"	0.191 (L/360)	0.006 (1%)	D	Uniform
LL Defl inch	0.002 (L/33695)	2'10 1/8"	0.191 (L/360)	0.011 (1%)	L	L
TL Defl inch	0.003 (L/21359)	2'10 3/16"	0.286 (L/240)	0.011 (1%)	D+L	L

# Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.500"	Vert	5%	172 / 347	519	L	1.25D+1.5L
2 - SPF	2.375"	Vert	8%	136 / 267	403	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 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.

15 PSF

- 7 Top must be continuously laterally braced.
- 8 Bottom must be laterally braced at a maximum of 4' 7/8" 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.

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

# Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-pty 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





Page 3 of 44



Client: Project: Address: **GREENPARK** 

Date: 7/14/2023 Input by:  $W\, C$ 

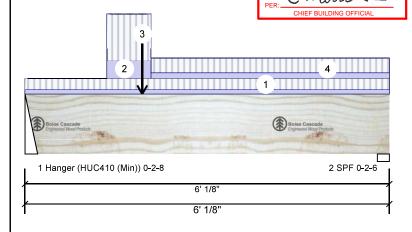
Job Name: VILLA 1-1 STD

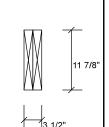
Project #

Versa-Lam LVL 2.1E 3100 SP

ZADORRAOESTAFES OF OSHAWA DSHAWA, ON ECOPY 1.750\\\ 11.875\'

ESEPLeve 2303





<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 6-0-2	0-5-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	1-4-3 to 2-0-15	1-9-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-11-3		Near Face	83 lb	164 <b>l</b> b	0 <b>l</b> b	0 lb	F9
4	Tie-In	2-0-15 to 6-0-2	0-6-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				12 PLF				



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# Handling & Installation

Handling & Installation

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2. Refer to manufacturer's product information regarding installation requirements, multi-pty 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

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

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario Boise Cascade Wood Products 613-838-2775 / 905-642-4400 1111 W. Jefferson St. Boise, ID 83702







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**GREENPARK** 

7/14/2023 Input by: WC

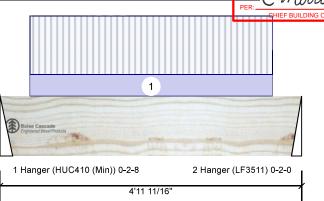
Job Name: VILLA 1-1 STD

Project #

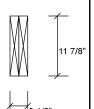
# Versa-Lam LVL 2.1E 3100 SP

ASSED

Level: Ground Floor



4'11 11/16"



### Member Information

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

### **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	173	94	0	0
2	Vertical	171	93	0	0

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	502 ft-lb	2'6 1/16"	35392 ft-lb	0.014 (1%)	1.25D+1.5L	L
Unbraced	502 ft-lb	2'6 1/16"	35392 ft-lb	0.014 (1%)	1.25D+1.5L	L
Shear	364 lb	3'9 13/16"	13217 <b>l</b> b	0.028 (3%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/113195)	2'6 1/16"	0.157 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/58141)	2'6 1/16"	0.157 (L/360)	0.006 (1%)	L	L
TL Defl inch	0.001 (L/38411)	2'6 1/16"	0.236 (L/240)	0.006 (1%)	D+L	L

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap. F	React D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.500"	Vert	4%	118 / 260	377	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	5%	116 / 256	372	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.



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

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

# Handling & Installation

1. UVL 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

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

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

Manufacturer Info

Kott Inc.

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





Page 5 of 44



Client: Project:

ZADORRAOESTAFES OF OSHAWA DSHAWA, ON ECOPY Address:

**GREENPARK** 

Date: 7/14/2023 Input by:  $W\, C$ 

Job Name: VILLA 1-1 STD

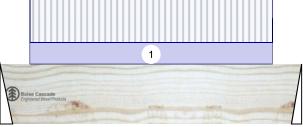
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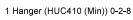
Versa-Lam LVL 2.1E 3100 SP

1.750 X 11.875"

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even Gronn Horn





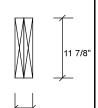
Self Weight

ID 1

2 Hanger (LF3511) 0-2-0

4'11 11/16"

4'11 11/16"



Load Type	Location	Trib Width	Side	Dead	Live	Snow	VVind	Comments
Part. Uniform	0-5-15 to 4-5-15		Far Face	32 PLF	86 PLF	0 PLF	0 PLF	

12 PLF



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 LVL not to be treated with fire retardant or corrosive

# Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

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www.bc.com CCMC: 12472

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







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**GREENPARK** 

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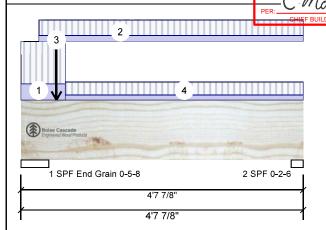
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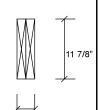
Project #

Versa-Lam LVL 2.1E 3100 SP

RASSED

Level Ground Floor





# **Member Information**

### Application: Floor (Residential) Type: Plies: 2 Design Method: LSD Moisture Condition: Dry Building Code: **NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: 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	305	164	0	0
2	Vertical	114	70	0	0

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	271 ft-lb	2'3 9/16"	35392 ft-lb	0.008 (1%)	1.25D+1.5L	L
Unbraced	271 ft-lb	2'3 9/16"	35392 ft-lb	0.008 (1%)	1.25D+1.5L	L
Shear	462 lb	1'5 3/8"	13217 <b>l</b> b	0.035 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/206729)	2'5"	0.137 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/123882)	2'4 13/16"	0.137 (L/360)	0.003 (0%)	L	L
TL Defl inch	0.001 (L/77463)	2'4 15/16"	0.206 (L/240)	0.003 (0%)	D+L	L

### Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	5.500"	Vert	3%	205 / 457	662	L	1.25D+1.5L
2 - SPF	2.375"	Vert	5%	87 / 172	259	L	1.25D+1.5L



- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at a maximum of 4' 13/16" o.c.

7 Lateral slenderness ratio based on full section width.



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<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-8-12	1-9-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-3-8 to 4-7-14	0-7-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	0-7-0		Far Face	84 lb	166 <b>l</b> b	0 lb	0 lb	F9
4	Tie-In	0-8-12 to 4-7-14	0-6-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				12 PLF				

### Notes

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

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

# Handling & Installation

1. UVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-rily fastening details, beam strength values, and code approvals
3. 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

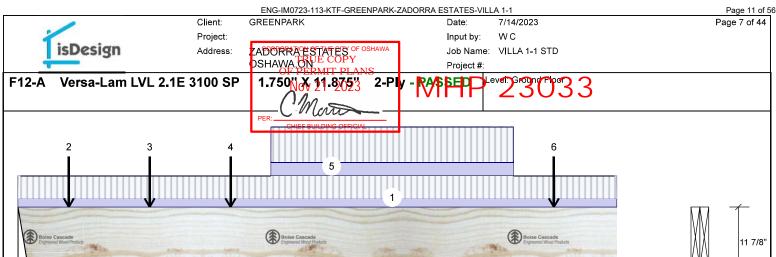
1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

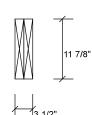
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2 SPF End Grain 0-5-8 1 Hanger (LF3511) 0-2-0 9'10 1/2' 9'10 1/2"



### Member Information

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

### **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1155	522	0	0
2	Vertical	1000	453	0	0

### Analysis Results

Analysis	Actua <b>l</b>	Location	Allowed	Capacity	Comb.	Case
Moment	5188 ft-lb	4'4 5/8"	35392 ft-lb	0.147 (15%)	1.25D+1.5L	L
Unbraced	5188 ft-lb	4'4 5/8"	35392 ft-lb	0.147 (15%)	1.25D+1.5L	L
Shear	2208 lb	1'1 7/8"	13217 <b>l</b> b	0.167 (17%)	1.25D+1.5L	L
Perm Defl in.	0.018 (L/6215)	4'8 7/16"	0.313 (L/360)	0.058 (6%)	D	Uniform
LL Defl inch	0.039 (L/2864)	4'8 5/8"	0.313 (L/360)	0.126 (13%)	L	L
TL Defl inch	0.057 (L/1961)	4'8 9/16"	0.469 (L/240)	0.122 (12%)	D+L	L

### Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. R	eact D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	31%	653 / 1733	2386	L	1.25D+1.5L
2 - SPF End Grain	5.500"	Vert	10%	566 / 1501	2067	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 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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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 9-10-8	1-11-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-10-1		Far Face	91 <b>l</b> b	243 lb	0 lb	0 <b>l</b> b	J4
3	Point	2-2-1		Far Face	105 <b>l</b> b	279 <b>l</b> b	0 lb	0 <b>l</b> b	J4
4	Point	3-6-1		Far Face	148 <b>l</b> b	261 lb	0 <b>l</b> b	0 <b>l</b> b	J4

Continued on page 2...

### Notes

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

# Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product 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

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

Kott Inc. Boise Cascade Wood Products

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







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

### Manufacturer Info Kott Inc.

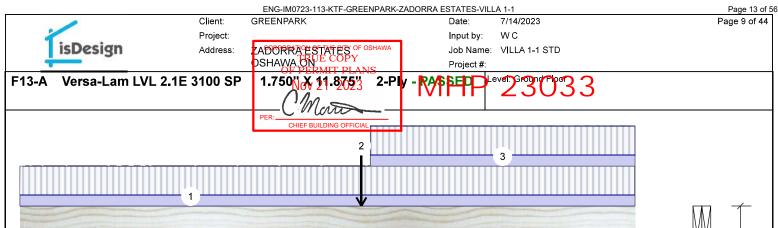
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3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





11 7/8'



1 SPF 0-2-6 2 SPF End Grain 0-5-8 3 SPF 0-2-6 5'8 5/8' 4'5 1/16' 10'1 11/16'

Member Information						
Туре:	Girder					
Plies:	2					
Moisture Condition:	Drv					

Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

General Load Floor Live: 40 PSF Dead: 15 PSF

Analysis Results

### Application: Floor (Residential)

OBC 2012(2020 Update)

Design Method: LSD Building Code: **NBCC 2015** 

Load Sharing:

Not Checked Deck: Vibration: Not Checked

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-261 ft-lb	5'8 5/8"	35392 ft-lb	0.007 (1%)	1.25D+1.5L	LL
Unbraced	-261 ft-lb	5'8 5/8"	33916 ft-lb	0.008 (1%)	1.25D+1.5L	LL
Pos Moment	187 ft-lb	8'2 9/16"	35392 ft-lb	0.005 (1%)	1.25D+1.5L	_L
Unbraced	187 ft-lb	8'2 9/16"	35392 ft-lb	0.005 (1%)	1.25D+1.5L	_L
Shear	183 <b>l</b> b	6'11 1/4"	13217 <b>l</b> b	0.014 (1%)	1.25D+1.5L	LL
Perm Defl in.	0.000 (L/287232)	2'6 15/16"	0.186 (L/360)	0.001 (0%)	D	Uniform
LL Defl inch	0.000 (L/162048)	7'11 7/16"	0.143 (L/360)	0.002 (0%)	L	_L
TL Defl inch	0.001 (L/106660)	2'8 1/4"	0.279 (L/240)	0.002 (0%)	D+L	L_

# **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at a maximum of 5'7 9/16" o.c.
- 7 Lateral slenderness ratio based on full section width.

# **Unfactored Reactions UNPATTERNED lb (Uplift)**

					• •	
I	Brg	Direction	Live	Dead	Snow	Wind
١	1	Vertical	57	49	0	0
١	2	Vertical	396	251	0	0
١	3	Vertical	93	53	0	0
-						

### **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	3%	61 / 98	159	L_	1.25D+1.5L
2 - SPF End Grain	5.500"	Vert	5%	315 / 596	911	LL	1.25D+1.5L
3 - SPF	2.375"	Vert	4%	66 / 159	225	_L	1.25D+1.5L



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### Notes

Notes

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

# Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product 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

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788

Manufacturer Info

www.bc.com CCMC: 12472

# Kott Inc.

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





15 PSF

12 PLF

Top



NCE OF OF JULY 18, 2023

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### Notes

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Tie-In

Self Weight

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

# Handling & Installation

5-9-5 to 10-1-11 0-7-12

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product 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

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This design is valid until 4/17/2026 CSD DESIGN





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**GREENPARK** 

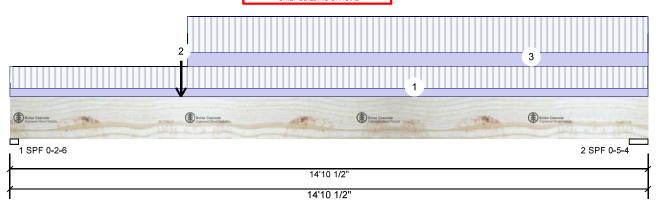
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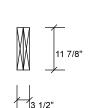
Job Name: VILLA 1-1 STD

Project #

Versa-Lam LVL 2.1E 3100 SP

even Grogne Phos





### Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

Floor Live: 40 PSF 15 PSF Dead:

Application: Floor (Residential)

Design Method: LSD **Building Code: NBCC 2015** OBC 2012(2020 Update)

Load Sharing:

Deck: Not Checked Vibration: Not Checked

# **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1007	529	0	0
2	Vertical	538	315	0	0

### **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	42%	661 / 1510	2171	L	1.25D+1.5L
2 - SPF	5.250"	Vert	11%	394 / 807	1201	L	1.25D+1.5L

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8058 ft-lb	3'11 7/8"	35392 ft-lb	0.228 (23%)	1.25D+1.5L	L
Unbraced	8058 ft-lb	3'11 7/8"	35392 ft-lb	0.228 (23%)	1.25D+1.5L	L
Shear	2140 lb	1'2 1/4"	13217 <b>l</b> b	0.162 (16%)	1.25D+1.5L	L
Perm Defl in.	0.061 (L/2816)	6'9 9/16"	0.479 (L/360)	0.128 (13%)	D	Uniform
LL Defl inch	0.115 (L/1493)	6'8 1/2"	0.479 (L/360)	0.241 (24%)	L	L
TL Defl inch	0.177 (L/976)	6'8 13/16"	0.718 (L/240)	0.246 (25%)	D+L	L

# **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at a maximum of 10'10 5/8" o.c.
- 7 Lateral slenderness ratio based on full section width.



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I	D Lo	oad Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie	e-In 0-0-	0 to 14-10-8	0-3-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	. Po	oint	3-11-14		Near Face	522 lb	1155 <b>l</b> b	0 lb	0 <b>l</b> b	F12
3	3 Ti	e-In 4-1-1	0 to 14-10-8	0-5-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Se	e <b>l</b> f Weight				12 PLF				

### Notes

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

# Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products 1111 W. Jefferson St.

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

### Kott Inc.

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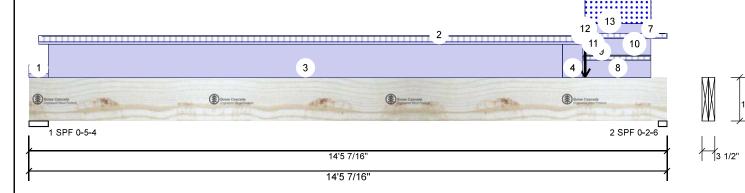
7/14/2023 Date: Input by: W C

Job Name: VILLA 1-1 STD

Project #

Versa-Lam LVL 2.1E 3100 SP

\_ever; Ground Floor



### Member Information Application: Floor (Residential) Type: Plies: Design Method: LSD Moisture Condition: Dry **Building Code:**

360 240 Deck: Normal - II

General Load Floor Live: 40 PSF 15 PSF Dead:

**NBCC 2015** OBC 2012(2020 Update) Load Sharing:

Not Checked Vibration: Not Checked

# **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	117	707	58	0
2	Vertical	108	847	454	0

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	14%	883 / 175	1058	L	1.25D+1.5L
2 - SPF	2.375"	Vert	45%	1059 / 788	1847	L	1.25D+1.5S +I

# Analysis Results

Deflection LL:

Deflection TL:

Importance:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3716 ft-lb	7'6 5/8"	23005 ft-lb	0.162 (16%)	1.25D+1.5L	L
Unbraced	3716 ft-lb	7'6 5/8"	23005 ft-lb	0.162 (16%)	1.25D+1.5L	L
Shear	1631 lb	13'3 3/16"	10574 <b>l</b> b	0.154 (15%)	1.25D+1.5S	L
					+L	
Perm Defl in.	0.088 (L/1900)	7'5 1/16"	0.465 (L/360)	0.189 (19%)	D	Uniform
LL Defl inch	0.023 (L/7282)	8'1 1/16"	0.465 (L/360)	0.049 (5%)	S+0.5L	L
TL Defl inch	0.111 (L/1510)	7'6 5/8"	0.697 (L/240)	0.159 (16%)	D+S+0.5L	L

# **Design Notes**

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



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							1			
	<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Tie-In	0-0-0 to 0-5-4	0-6-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Tie-In	0-2-10 to 12-5-7	0-4-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	3	Part. Uniform	0-5-4 to 12-1-1		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	4	Part. Uniform	12-1-1 to 12-6-9		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	5	Tapered Start	12-6-0		Тор	0 PLF	1 PLF	0 PLF	0 PLF	

Continued on page 2...

### Notes

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

### Handling & Installation

- 1. UVL beams must not be cut or drilled
  2. Refer to manufacturer's product information regarding installation requirements, multi-rily fastening details, beam strength values, and code approvals
  3. 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

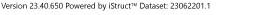
6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

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Page 13 of 44



Client: Project: Address: **GREENPARK** 

Date: 7/14/2023 Input by: WC

Job Name: VILLA 1-1 STD

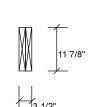
Project #

Versa-Lam LVL 2.1E 3100 SP

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13 12 7 10 11 3 Borse Car 2 SPF 0-2-6 1 SPF 0-5-4 14'5 7/16' 14'5 7/16'



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ı	<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
ı		End	12-6-0			0 PLF	1 PLF	0 PLF	0 PLF	
ı	6	Part. Uniform	12-6-0 to 12-6-0		Тор	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
ı	7	Tie-In	12-6-9 to 14-5-7	0-2-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
ı	8	Part. Uniform	12-6-9 to 14-1-1		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
ı	9	Tapered Start	12-6-9		Тор	3 PLF	9 PLF	0 PLF	0 PLF	
ı		End	14-1-1			3 PLF	9 PLF	0 PLF	0 PLF	
ı	10	Part. Uniform	12-6-9 to 14-1-1		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
ı	11	Part. Uniform	12-6-9 to 14-1-1		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
ı	12	Point	12-7-3		Тор	168 <b>l</b> b	0 lb	418 <b>l</b> b	0 <b>l</b> b	F18
ı		Bearing Length	0-8-0							
ı	13	Part. Uniform	12-7-3 to 14-1-1		Тор	24 PLF	0 PLF	63 PLF	0 PLF	
ı		Self Weight				12 PLF			BOF	SSION



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# Handling & Installation

Handling & Installation

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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





Brg

1

2

2 -

Hanger

Direction

2.000"

Vert

Vertical

Vertical



Client: Project: Address:

ZADORRAOUSTATES OF OSHAWA DSHAWA, ON

7/14/2023 Date: W C Input by:

Job Name: VILLA 1-1 STD

Project #

**AJS 140** 

11.875" -

**GREENPARK** 

even Ground Floor



11 7/8"

Wind

1.25D+1.5L

0

0

### Member Information

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

# **Unfactored Reactions UNPATTERNED lb (Uplift)** Live

65

62

8%

Bearings and Factored Reactions								
Bearing	Length	Dir.	Cap. Re	eact D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.	
1_SPF	2 375"	Vert	8%	31 / 98	129	1	1 25D+1 5I	

29 / 94

Dead

25

23

Snow

123 L

0

0

### Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	30 ft-lb	8 1/2"	5305 ft-lb	0.006 (1%)	1.25D+1.5L	L
Unbraced	30 ft-lb	8 1/2"	5305 ft-lb	0.006 (1%)	1.25D+1.5L	L
Shear	104 <b>l</b> b	1'3 3/8"	2350 lb	0.044 (4%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/158256)	8 1/2"	0.038 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/59346)	8 1/2"	0.038 (L/360)	0.006 (1%)	L	L
TL Defl inch	0.000 (L/43161)	8 1/2"	0.057 (L/240)	0.006 (1%)	D+L	L



**Design Notes** 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.

- 2 Fill all hanger nailing holes.
- 3 Right Header: SPF, Thickness: 2 1/2"

15 PSF

- 4 Girders are designed to be supported on the bottom edge only.
- 5 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 6 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-4-10	1-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-4-10	0-8-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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.

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

### Handling & Installation

- Handling & Installation

  1. Noist flanges must not be out or drilled

  2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

  3. Damaged Jioists must not be used

  4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent populing.

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788

Manufacturer Info

www.bc.com CCMC: 12787

# Kott Inc.

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







F2

Client: Project: Address:

ZABORRACE STATES OF OSHAWA DSHAWA,

**GREENPARK** 

7/14/2023 Date: W C Input by:

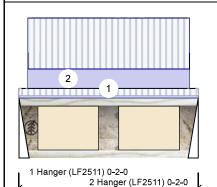
Job Name: VILLA 1-1 STD

Project #

**AJS 140** 11.875" - PA\$SF Nov 21 2023



even Ground Floor



11 7/8"

g ( )
2'11 1/2"
2'11 1/2"

Туре:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II

Member Information

Importance: Normal - II General Load

Floor Live: 40 PSF 15 PSF Dead:

Application: Floor (Residential)

Design Method:

**Building Code: NBCC 2015** OBC 2012(2020 Update)

LSD

Load Sharing:

Not Checked Deck:

Vibration: Not Checked

# **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	337	126	0	0
2	Vertical	337	126	0	0

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap. I	React D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	41%	158 / 506	664	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	41%	158 / 506	664	L	1.25D+1.5L

### Analysis Results

Analysis	Actua <b>l</b>	Location	Allowed	Capacity	Comb.	Case
Moment	464 ft-lb	1'5 3/4"	5305 ft-lb	0.087 (9%)	1.25D+1.5L	L
Unbraced	464 ft-lb	1'5 3/4"	5305 ft-lb	0.087 (9%)	1.25D+1.5L	L
Shear	658 lb	1 1/4"	2350 lb	0.280 (28%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/19765)	1'5 3/4"	0.092 (L/360)	0.018 (2%)	D	Uniform
LL Defl inch	0.004 (L/7402)	1'5 3/4"	0.092 (L/360)	0.049 (5%)	L	L
TL Defl inch	0.006 (L/5385)	1'5 3/4"	0.137 (L/240)	0.045 (4%)	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.
- 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.

0-1-12 to 2-9-12



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ſ	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
l	1	Tie-In	0-0-0 to 2-11-8	0-9-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Far Face

2

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.

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

# Handling & Installation

- Handling & Installation

  1. Noist flanges must not be out or drilled

  2. Refer to latest copy of the IJoist product information
  details for framing details, stiffener tables, web hole
  chart, bridging details, multi-rily 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.

219 PLF

82 PLF

- Provide lateral support at bearing points to avoid lateral displacement and rotation
   Web stiffeners for point load as shown Minimum point load bearing length= 3.5 inches
   For flat roofs provide proper drainage to prevent

This design is valid until 4/17/2026

# Manufacturer Info

0 PLF

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

0 PLF

(800) 232-0788 www.bc.com CCMC: 12787

### Kott Inc.

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





Part. Uniform

Brg

Direction

Vertical



Client: Project: Address:

ZADORRAOUSTATES OF OSHAWA DSHAWA, ON

**GREENPARK** 

7/14/2023 Date: W C Input by:

Job Name: VILLA 1-1 STD

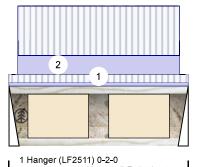
Project #

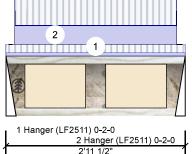
**AJS 140** 

11.875" - P



ever Grond Flog





2'11 1/2'

11 7/8"

Wind

0

Snow

0

# Member Information

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

# **Unfactored Reactions UNPATTERNED lb (Uplift)** Live

284

2	Vertical	284	106	0	0

Dead

106

### Analysis Results

Analysis	Actua <b>l</b>	Location	Allowed	Capacity	Comb.	Case
Moment	389 ft-lb	1'5 3/4"	5305 ft-lb	0.073 (7%)	1.25D+1.5L	L
Unbraced	389 ft-lb	1'5 3/4"	5305 ft-lb	0.073 (7%)	1.25D+1.5L	L
Shear	553 lb	1 1/4"	2350 lb	0.235 (24%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/23540)	1'5 3/4"	0.092 (L/360)	0.015 (2%)	D	Uniform
LL Defl inch	0.004 (L/8814)	1'5 3/4"	0.092 (L/360)	0.041 (4%)	L	L
TL Defl inch	0.005 (L/6413)	1'5 3/4"	0.137 (L/240)	0.037 (4%)	D+L	L

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap. Re	act D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 -	2.000"	Vert	35%	133 / 426	559	L	1.25D+1.5L
Hanger							
2 -	2.000"	Vert	35%	133 / 426	559	L	1.25D+1.5L
Hanger							

# **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.
- 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.

0-1-12 to 2-9-12



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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	0-9-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Near Face

### Notes

2

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.

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

# Handling & Installation

- Handling & Installation

  1. Joist flanges must not be cut or drilled

  2. Refer to latest copy of the Juoist product information details for framing details. stifferer tables, web hole chart, bridging details, multi-ray fastening details and handling/erection details

  3. Damaged Juoists must not be used

  4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

179 PLF

67 PLF

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

This design is valid until 4/17/2026

# Manufacturer Info

0 PLF

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

0 PLF

(800) 232-0788 www.bc.com CCMC: 12787

### Kott Inc.

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





Part. Uniform



ZADORRACESTATES OF OSHAWA DSHAWA,

Date: 7/14/2023 W C Input by:

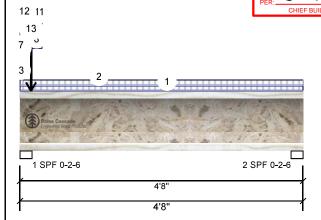
Job Name: VILLA 1-1 STD

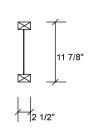
Project #

F3 **AJS 140** 11.875" - PA

**GREENPARK** 

ever Grond Flog





# **Member Information** Type:

Plies: 1 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240

Importance: Normal - II General Load

Floor Live: 40 PSF Dead: 15 PSF

# Floor (Residential)

Design Method: LSD **Building Code: NBCC 2015** 

Application:

OBC 2012(2020 Update)

Load Sharing: Not Checked Deck:

Vibration: Not Checked

# **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	188	483	378	0
2	Vertical	126	48	0	0

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap.	React D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	81%	604 / 756	1360	L	1.25D+1.5S +L
2 - SPF	2.375"	Vert	17%	60 / 190	250	L	1.25D+1.5L

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	260 ft-lb	2'3 7/8"	4721 ft-lb	0.055 (6%)	1.25D+1.5L	L
Unbraced	260 ft-lb	2'3 7/8"	4721 ft-lb	0.055 (6%)	1.25D+1.5L	L
Shear	282 lb	1 5/8"	2092 <b>l</b> b	0.135 (13%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/40037)	2'3 11/16"	0.147 (L/360)	0.009 (1%)	D	Uniform
LL Defl inch	0.003 (L/15613)	2'4"	0.147 (L/360)	0.023 (2%)	L+0.5S	L
TL Defl inch	0.005 (L/11233)	2'3 7/8"	0.220 (L/240)	0.021 (2%)	D+L+0.5S	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.



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.

3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum
2' o.c.
4 Bottom flange must be laterally braced at bearings.

ĺ	<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
l	1	Tie-In	0-0-0 to 4-8-0	0-7-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
l	2	Tie-In	0-0-0 to 4-8-0	0-9-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
l	3	Part. Uniform	0-0-0 to 0-0-9		Тор	30 PLF	0 PLF	80 PLF	0 PLF	
l	4	Part. Uniform	0-0-0 to 0-0-9		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
١	5	Tapered Start	0-0-0		Тор	5 PLF	13 PLF	0 PLF	0 PLF	

Continued on page 2...

### Notes

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

# Handling & Installation

- Handling & Installation

  1. Noist flanges must not be out or drilled

  2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

  3. Damaged Jioists must not be used

  4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3,5 inches
 For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

(800) 232-0788 www.bc.com CCMC: 12787

Manufacturer Info

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





Page 18 of 44



Client: Project: Address:

ZADORRAOESTAFES OF OSHAWA DSHAWA, ON E COPY

**GREENPARK** 

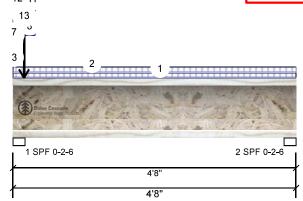
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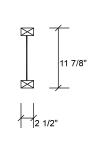
Job Name: VILLA 1-1 STD

Project #

Level: Ground Floor

**AJS 140** F3 11.875" - PA\$SF Nov 21 2023 12 11





Continued t	from page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	End	0-0-9			5 PLF	13 PLF	0 PLF	0 PLF	
6	Part. Uniform	0-0-0 to 0-0-9		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
7	Part. Uniform	0-0-0 to 0-0-9		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Part. Uniform	0-0-0 to 0-4-6		Тор	30 PLF	0 PLF	80 PLF	0 PLF	
9	Part. Uniform	0-0-0 to 0-4-6		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
10	Tapered Start	0-0-0		Тор	5 PLF	13 PLF	0 PLF	0 PLF	
	End	0-4-6			5 PLF	13 PLF	0 PLF	0 PLF	
11	Part. Uniform	0-0-0 to 0-4-6		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
12	Part. Uniform	0-0-0 to 0-4-6		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
13	Point	0-2-3		Тор	374 lb	57 <b>l</b> b	346 lb	0 <b>l</b> b	В3
	Bearing Length	0-1-8							



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.

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

### Handling & Installation

- Handling & Installation

  1. Uloist flanges must not be cut or drilled

  2. Refer to latest copy of the Lioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details

  3. Damaged Lioists must not be used

  4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

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.





Page 19 of 44



Client: Project:

**GREENPARK** Address: ZABORRACE STATES OF OSHAWA

DSHAWA, ON

Date: 7/14/2023 Input by: W C

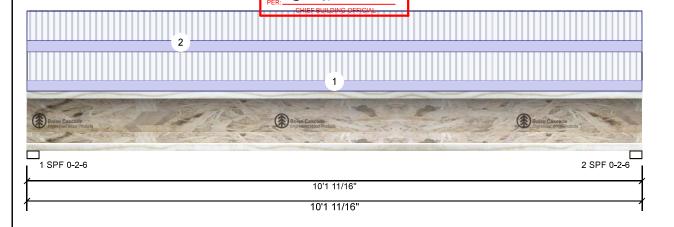
Job Name: VILLA 1-1 STD

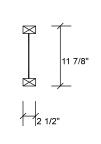
Project #

**AJS 140** 

11.875" - PA

even Ground Phog





N	lem/	ber	Info	rma	ti	on
	_					

туре.	Girdei
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

Floor Live: 40 PSF 15 PSF Dead:

Application: Floor (Residential)

Design Method: LSD **Building Code: NBCC 2015** OBC 2012(2020 Update)

Load Sharing: Not Checked Deck:

Vibration: Not Checked

# **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	299	112	0	0
2	Vertical	299	112	0	0

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap. Re	act D/L <b>l</b> b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	35%	140 / 449	589	L	1.25D+1.5L
2 - SPF	2.375"	Vert	35%	140 / 449	589	L	1.25D+1.5L

### Analysis Results

Analysis	Actua <b>l</b>	Location	Allowed	Capacity	Comb.	Case
Moment	1415 ft-lb	5' 7/8"	5305 ft-lb	0.267 (27%)	1.25D+1.5L	L
Unbraced	1415 ft-lb	5' 7/8"	5305 ft-lb	0.267 (27%)	1.25D+1.5L	L
Shear	573 lb	1 5/8"	2350 lb	0.244 (24%)	1.25D+1.5L	L
Perm Defl in.	0.019 (L/6195)	5' 7/8"	0.329 (L/360)	0.058 (6%)	D	Uniform
LL Defl inch	0.051 (L/2323)	5' 7/8"	0.329 (L/360)	0.155 (15%)	L	L
TL Defl inch	0.070 (L/1690)	5' 7/8"	0.494 (L/240)	0.142 (14%)	D+L	L

# **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at bearings.

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	JULY 18, 2023	

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Comments

<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Сс
1	Tie-In	0-0-0 to 10-1-11	0-8-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 10-1-11	0-9-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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.

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

# Handling & Installation

- Handling & Installation

  1. Noist flanges must not be out or drilled

  2. Refer to latest copy of the IJoist product information
  details for framing details, stiffener tables, web hole
  chart, bridging details, multi-rily 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.

- Provide lateral support at bearing points to avoid lateral displacement and rotation
   Web stiffeners for point load as shown Minimum point load bearing length>= 3,5 inches
   For flat roofs provide proper drainage to prevent ponding

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.





Page 20 of 44



Client: Project: Address:

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Date: 7/14/2023 Input by: W C

Job Name: VILLA 1-1 STD

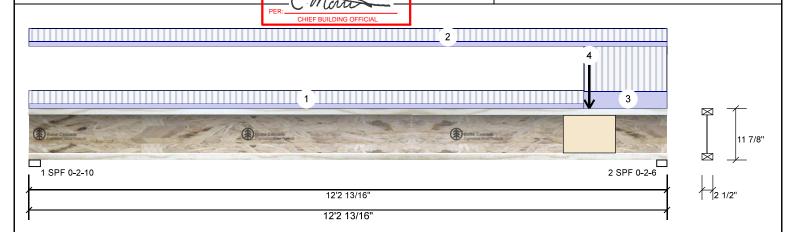
Project #

F5 **AJS 140** 11.875" - PA

**\$SF** Nov 21 2023

**GREENPARK** 

ever Ground Floor



Member Inforn	nation			Unfactored Reactions UNPATTERNED Ib (Uplift)							
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead	Snov	v	Wind
Plies:	1	Design Method:	LSD	1	Vertical	2	261	98		0	0
Moisture Condition: Deflection LL:	Dry 360	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	ţ	543	203		0	0
Deflection TL:	240	Load Sharing:	No								
Importance: General Load	Normal - II	Deck: Vibration:	Not Checked Not Checked								
Floor Live:	40 PSF			Bear	ings and F	actored	Rea	ctions			
Dead:	15 PSF			Bea	ring Length	Dir.	Сар.	React D/L lb	Total Ld. (	Case	Ld. Comb.
				1 - 3	SPF 2.625"	Vert	30%	122 / 391	513 L		1.25D+1.5L
				2 - :	SPF 2.375"	Vert	63%	254 / 815	1069 L		1.25D+1.5L

### **Analysis Results**

Ana <b>l</b> ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1747 ft-lb	7'1 3/8"	5305 ft-lb	0.329 (33%)	1.25D+1.5L	L
Unbraced	1747 ft-lb	7'1 3/8"	5305 ft-lb	0.329 (33%)	1.25D+1.5L	L
Shear	1047 <b>l</b> b	12'1 3/16"	2350 lb	0.446 (45%)	1.25D+1.5L	L
Perm Defl in	0.033 (L/4351)	6'5 1/4"	0.398 (L/360)	0.083 (8%)	D	Uniform
LL Defl inch	0.088 (L/1630)	6'5 1/4"	0.398 (L/360)	0.221 (22%)	L	L
TL Defl inch	0.121 (L/1186)	6'5 1/4"	0.597 (L/240)	0.202 (20%)	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 10'8 15/16" o.c.



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

II	D Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-7-11	0-5-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-2-13	0-5-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	10-7-11 to 12-2-13	1-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	10-8-15		Far Face	106 <b>l</b> b	284 <b>l</b> b	0 lb	0 lb	F2

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.

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

# Handling & Installation

- Handling & Installation

  1. Noist flanges must not be out or drilled

  2. Refer to latest copy of the IJoist product information
  details for framing details, stiffener tables, web hole
  chart, bridging details, multi-rily 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.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

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

613-838-2775 / 905-642-4400

3228 Moodie Dr, Ottawa, Ontario





Kott Inc.

11 7/8'



Client: Project: Address:

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7/14/2023 Date: W C Input by:

Job Name: VILLA 1-1 STD

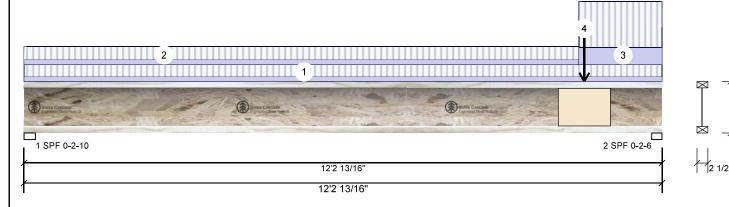
Project #

**AJS 140** F<sub>5</sub>-A

11.875" -

**GREENPARK** 

ever Ground Floor



Floor (Residential)

OBC 2012(2020 Update)

**NBCC 2015** 

Not Checked

Not Checked

LSD

**Member Information** Type:

1 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Normal - II

Importance: General Load

Floor Live: 40 PSF 15 PSF Dead:

# **Unfactored Reactions UNPATTERNED lb (Uplift)**

В	rg	Direction	Live	Dead	Snow	Wind
	1 '	√ertica <b>l</b>	251	94	0	0
	2	√ertica <b>l</b>	533	200	0	0

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap.	React D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.625"	Vert	28%	117 / 376	493	L	1.25D+1.5L
2 - SPF	2.375"	Vert	62%	249 / 800	1049	L	1.25D+1.5L

### Analysis Results

Plies:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1691 ft-lb	7'1 15/16"	5305 ft-lb	0.319 (32%)	1.25D+1.5L	L
Unbraced	1691 ft-lb	7'1 15/16"	5305 ft-lb	0.319 (32%)	1.25D+1.5L	L
Shear	1028 <b>l</b> b	12'1 3/16"	2350 lb	0.437 (44%)	1.25D+1.5L	L
Perm Defl in.	0.032 (L/4497)	6'5 3/8"	0.398 (L/360)	0.080 (8%)	D	Uniform
LL Defl inch	0.085 (L/1684)	6'5 3/8"	0.398 (L/360)	0.214 (21%)	L	L
TL Defl inch	0.117 (L/1225)	6'5 3/8"	0.597 (L/240)	0.196 (20%)	D+L	L

Application:

Design Method:

**Building Code:** 

Load Sharing:

Deck:

Vibration:

# **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 10'8 15/16" o.c.



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<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-2-13	0-5-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 10-7-11	0-5-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	10-7-11 to 12-2-13	1-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	10-8-15		Near Face	106 <b>l</b> b	284 lb	0 <b>l</b> b	0 lb	F2

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

### Handling & Installation

- Handling & Installation

  1. Noist flanges must not be cut or drilled

  2. Refer to latest copy of the Lioist product information details for framing details. stifferer tables, web hole chart, bridging details. multi-qly fastening details and handling/erection details

  3. Damaged Lioists must not be used

  4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length=3.5 inches
 For flat roofs provide proper drainage to prevent

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.



Page 22 of 44

11 7/8"



Client: Project: Address:

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Date: 7/14/2023 Input by: WC

Job Name: VILLA 1-1 STD

Project #

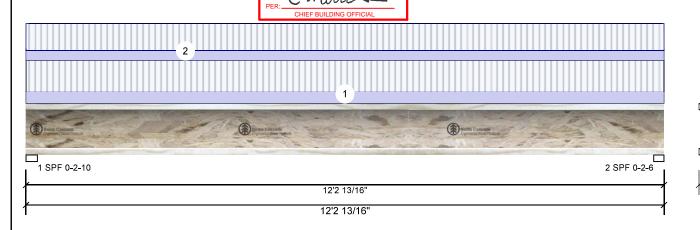
**AJS 140** F5-B

11.875" -

**ASS** ₩ 21 2023

**GREENPARK** 

ever Ground Floor



Member Inforn	nation			Unfactored Reactions UNPATTERNED lb (Uplift)						
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Sno	)W	Wind
Plies:	1	Design Method:	LSD	1	Vertical	352	132		0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	351	131		0	0
Deflection LL:	360		OBC 2012(2020 Update)							
Deflection TL:	240	Load Sharing:	No							
Importance:	Normal - II	Deck:	Not Checked							
General Load		Vibration:	Not Checked							
Floor Live:	40 PSF			Bear	ings and Fa	actored Rea	ctions			
Dead:	15 PSF			Bea	ring Length	Dir. Cap.	React D/L Ib	Total Ld.	Case	Ld. Comb.
				1 - 9	SPF 2.625"	Vert 40%	165 / 528	693 L		1.25D+1.5L
				2-9	SPF 2.375"	Vert 41%	164 / 526	690 L		1.25D+1.5L

### Analysis Results

Ana <b>l</b> ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2015 ft-lb	6'1 9/16"	5305 ft-lb	0.380 (38%)	1.25D+1.5L	L
Unbraced	2015 ft-lb	6'1 9/16"	5305 ft-lb	0.380 (38%)	1.25D+1.5L	L
Shear	675 <b>l</b> b	1 7/8"	2350 lb	0.287 (29%)	1.25D+1.5L	L
Perm Defl in	0.037 (L/3845)	6'1 9/16"	0.398 (L/360)	0.094 (9%)	D	Uniform
LL Defl inch	0.099 (L/1442)	6'1 9/16"	0.398 (L/360)	0.250 (25%)	L	L
TL Defl inch	0.137 (L/1049)	6'1 9/16"	0.597 (L/240)	0.229 (23%)	D+L	L

# **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at bearings.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-2-13	0-9-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-2-13	0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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.

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

# Handling & Installation

- Handling & Installation

  1. Noist flanges must not be cut or drilled

  2. Refer to latest copy of the Juoist product information details for framing details, stifferer tables, web hole chart, bridging details, multi-ray fastening details and handling/erection details

  3. Damaged Juoists must not be used

  4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

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.





Page 23 of 44



Client: Project: Address:

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**GREENPARK** 

Date: 7/14/2023 Input by: WC

Job Name: VILLA 1-1 STD

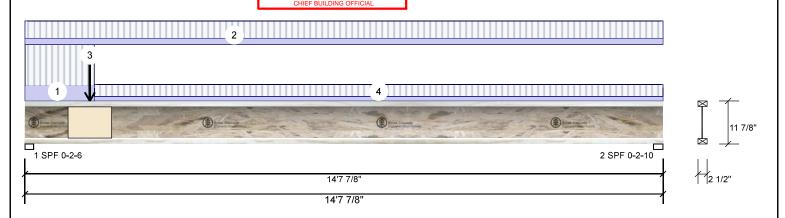
Project #

F6 **AJS 140** 

11.875" - PA

**\$SF** Nov 21 2023

ever Ground Floor



Member Inform	nation			Unfactored Reactions UNPATTERNED lb (Uplift)						
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind	
Plies:	1	Design Method:	LSD	1	Vertical	703	263	0	0	
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical	365	137	0	0	
Deflection LL:	360		OBC 2012(2020 Update)							
Deflection TL:	240	Load Sharing:	No							
Importance:	Normal - II	Deck:	Not Checked							
General Load		Vibration:	Not Checked							
Floor Live:	40 PSF			Bear	ings and Fa	actored Rea	ections			
Dead:	15 PSF			Bea	aring Length	Dir. Cap	. React D/L <b>l</b> b	Total Ld. Case	Ld. Comb.	
				1 - 3	SPF 2.375"	Vert 82%	6 329 / 1054	1383 L	1.25D+1.5L	
				2 - 1	SPF 2.625"	Vert 419	6 171 / 548	719 L	1.25D+1.5L	

### Analysis Results

Ana <b>l</b> ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2806 ft-lb	6'6 7/16"	5305 ft-lb	0.529 (53%)	1.25D+1.5L	L
Unbraced	2806 ft-lb	6'6 7/16"	5305 ft-lb	0.529 (53%)	1.25D+1.5L	L
Shear	1359 lb	1 5/8"	2350 lb	0.578 (58%)	1.25D+1.5L	L
Perm Defl in.	0.073 (L/2359)	7' 13/16"	0.479 (L/360)	0.153 (15%)	D	Uniform
LL Defl inch	0.195 (L/884)	7' 13/16"	0.479 (L/360)	0.407 (41%)	L	L
TL Defl inch	0.268 (L/643)	7' 13/16"	0.718 (L/240)	0.373 (37%)	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 13'2" o.c.



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<b>I</b> D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-7-2	1-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 14-7-14	0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-14		Far Face	126 <b>l</b> b	337 lb	0 lb	0 lb	F2
4	Tie-In	1-7-2 to 14-7-14	0-5-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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

### Handling & Installation

- Handling & Installation

  1. Noist flanges must not be out or drilled

  2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

  3. Damaged Jioists must not be used

  4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

# Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

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

# Kott Inc.







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Date: 7/14/2023 Input by: W C

Job Name: VILLA 1-1 STD

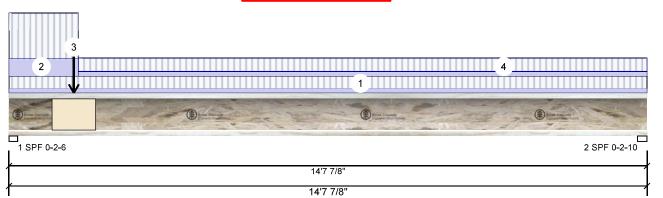
Project #

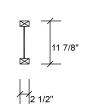
**AJS 140** F6-A

11.875" -

**GREENPARK** 

ever Ground Floor





### Member Information

Type:	Giraer
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

Floor Live: 40 PSF 15 PSF Dead:

### Application: Floor (Residential)

Design Method: LSD **Building Code: NBCC 2015** OBC 2012(2020 Update)

Load Sharing: Not Checked Deck:

Vibration: Not Checked

# **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	630	236	0	0
2	Vertical	292	109	0	0

# **Bearings and Factored Reactions**

Bearing	Length	Dir.	Cap.	React D/L <b>I</b> b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	74%	295 / 944	1239	L	1.25D+1.5L
2 - SPF	2.625"	Vert	33%	137 / 438	575	L	1.25D+1.5L

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2307 ft-lb	6'3 3/4"	5305 ft-lb	0.435 (43%)	1.25D+1.5L	L
Unbraced	2307 ft-lb	6'3 3/4"	5305 ft-lb	0.435 (43%)	1.25D+1.5L	L
Shear	1218 <b>l</b> b	1 5/8"	2350 lb	0.518 (52%)	1.25D+1.5L	L
Perm Defl in.	0.060 (L/2864)	7' 1/8"	0.479 (L/360)	0.126 (13%)	D	Uniform
LL Defl inch	0.161 (L/1073)	7' 1/8"	0.479 (L/360)	0.335 (34%)	L	L
TL Defl inch	0.221 (L/781)	7' 1/8"	0.718 (L/240)	0.307 (31%)	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 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 14-7-14	0-5-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-7-2	1-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-14		Near Face	126 <b>l</b> b	337 lb	0 <b>l</b> b	0 lb	F2
4	Tie-In	1-7-2 to 14-7-14	0-5-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

### Notes

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# Handling & Installation

- Handling & Installation

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  details for framing details, stiffener tables, web hole
  chart, bridging details, multi-rily fastening details and
  handling/erection details

  3. Damaged IJoists must not be used
  4. Design assumes top flange to be laterally restrained
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- Provide lateral support at bearing points to avoid lateral displacement and rotation
   Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
   For flat roofs provide proper drainage to prevent populing.

This design is valid until 4/17/2026

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