TRUE COPY OF PERMIT PLANS is Dec 06 2023

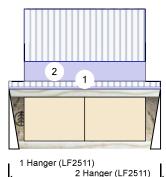
Client: Project:

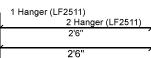
Address: **OSHAWA** Input by: RΟ

Job Name: VILLA 11-3-SNK

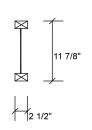
11<mark>.875" - PASSED</mark>







Member Information



	wichiber imorn	iation		
	Туре:	Girder	Application:	Floor (Residential)
	Plies:	1	Design Method:	LSD
	Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
	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		
ı				

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	342	128	0	0
2	Vertical	342	128	0	0

Unfactored Reactions UNPATTERNED lb (Uplift)

Bearings and Factored Reactions Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 160 / 513 2.000" Vert 42% 673 L 1.25D+1.5L Hanger 2 -2.000" Vert 42% 160 / 513 673 L 1.25D+1.5L Hanger

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	425 ft-lb	1'3"	5305 ft-lb	0.080 (8%)	1.25D+1.5L	L
Unbraced	425 ft-lb	1'3"	5305 ft-lb	0.080 (8%)	1.25D+1.5L	L
Shear	667 lb	2'4 3/4"	2350 lb	0.284 (28%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/19303)	1'3"	0.076 (L/360)	0.019 (2%)	D	Uniform
LL Defl inch	0.004 (L/7246)	1'3"	0.076 (L/360)	0.050 (5%)	L	L
TL Defl inch	0.005 (L/5268)	1'3"	0.115 (L/240)	0.046 (5%)	D+L	L

Design Notes

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

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	VVind	Comments
1	Tie-In	0-0-0 to 2-6-0	0-9-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-3-0 to 2-3-0		Far Face	113 PLF	301 PLF	0 PLF	0 PLF	

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 11/3/2024

Manufacturer Info

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

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





Client: Project:

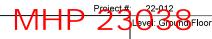
OSHAWA

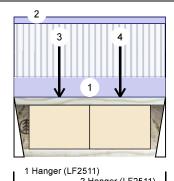
Input by: RΟ

Job Name: VILLA 11-3-SNK

F10 B

.875" - PASSED





11 7/8"

	2 Hanger (LF2)	511)
l 1	2'6"	•
1	2'6"	•

Member Inform	nation		
Туре:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
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		

Deflection TL:	240	Deck:	Not Checked	
Importance:	Normal - II	Vibration:	Not Checked	
General Load				
Floor Live:	40 PSF			Bearings and
Dead:	15 PSF			Bearing Leng
				1 - 2.000
				Hanger
Analysis Results				2 - 2.000
<u> </u>				Hanger

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	351 ft-lb	1'3 15/16"	5305 ft-lb	0.066 (7%)	1.25D+1.5L	L
Unbraced	351 ft-lb	1'3 15/16"	5305 ft-lb	0.066 (7%)	1.25D+1.5L	L
Shear	556 lb	2'4 3/4"	2350 lb	0.237 (24%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/18519)	1'4 1/8"	0.076 (L/360)	0.019 (2%)	D	Uniform
LL Defl inch	0.003 (L/9417)	1'3"	0.076 (L/360)	0.038 (4%)	L	L
TL Defl inch	0.004 (L/6245)	1'3 3/8"	0.115 (L/240)	0.038 (4%)	D+L	L

Design Notes

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

Unfactored	Reactions	UNPAT	TERNED	lb	(Uplift)
------------	-----------	-------	--------	----	----------

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	262	130	0	0
2	Vertical	262	136	0	0

d Factored Reactions

Bearing	Length	Dir.	Cap. Re	eact D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	35%	162 / 393	555	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	35%	170 / 393	563	L	1.25D+1.5L



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-6-0	0-9-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 2-6-0		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
3	Point	0-9-0		Near Face	105 l b	221 l b	0 lb	0 lb	J4
4	Point	1-9-0		Near Face	120 l b	221 l b	0 l b	0 lb	J4

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 11/3/2024

Manufacturer Info

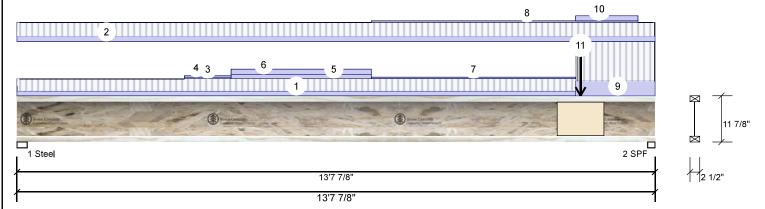
Boise Cascade Wood Products 1111 W. Jefferson St.

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

Kott Inc.







Member Inform	nation			Unf	actored Rea	actions U	NP	ATTERNED II	o (Upl	ift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Liv	е	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	28	2	140		0	0
Moisture Condition	: Dry	Building Code:	NBCC 2015 / OBC 2012	2	Vertical	53	8	278		0	0
Deflection LL:	360	Load Sharing:	No								
Deflection TL:	240	Deck:	Not Checked								
Importance:	Normal - II	Vibration:	Not Checked								
General Load											
Floor Live:	40 PSF			Bea	rings and Fa	actored F	Read	ctions			
Dead:	15 PSF			Be	aring Length	Dir. C	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	Steel 2.625"	Vert	34%	175 / 422	598	L	1.25D+1.5L
				2 -	SPF 1.875"	Vert	73%	347 / 808	1155	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2296 ft-lb	7'7 3/8"	5305 ft-lb	0.433 (43%)	1.25D+1.5L	L
Unbraced	2296 ft-lb	7'7 3/8"	5305 ft-lb	0.433 (43%)	1.25D+1.5L	L
Shear	1141 lb	13'6 3/4"	2350 lb	0.486 (49%)	1.25D+1.5L	L
Perm Defl in.	0.069 (L/2318)	7'1 3/16"	0.447 (L/360)	0.155 (16%)	D	Uniform
LL Defl inch	0.127 (L/1266)	7'1 3/4"	0.447 (L/360)	0.284 (28%)	L	L
TL Defl inch	0.196 (L/819)	7'1 1/2"	0.670 (L/240)	0.293 (29%)	D+L	L

Design Notes

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

4 Bottom flange must be laterally braced at a maximum of 12' 3/4" o.c.



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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 11-11-8	0-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 13-7-14	0-5-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	3-7-0 to 4-7-0		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	3-7-0 to 4-7-0		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	4-7-0 to 7-7-0		Тор	6 PLF	0 PLF	0 PLF	0 PLF	
6	Part. Uniform	4-7-0 to 7-7-0		Тор	7 PLF	0 PLF	0 PLF	0 PLF	
7	Part. Uniform	7-7-0 to 11-11-8		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
Continued on p	page 2								

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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

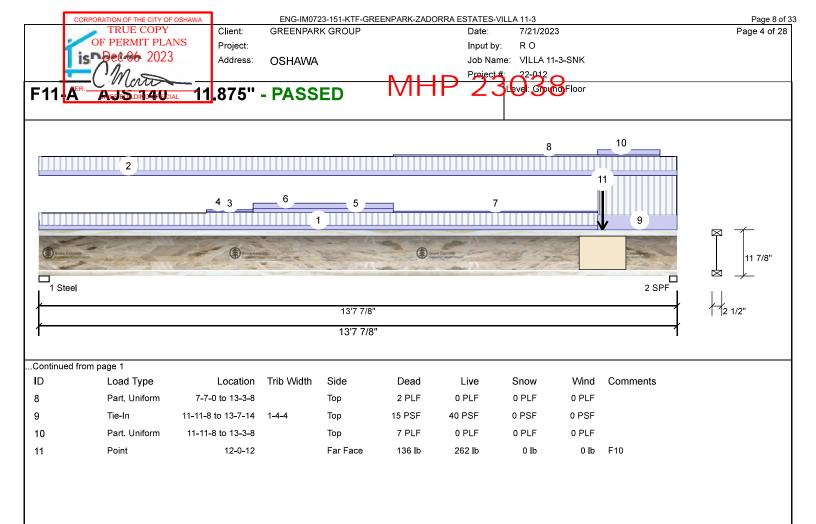
This design is valid until 11/3/2024

Manufacturer Info

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

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







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Handling & Installation

- Handling & Installation

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 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

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



Member Inforn	nation			Unf	actored Rea	actions	UNP	ATTERNED II	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	I	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical		196	89	0	0
Moisture Condition:	: Dry	Building Code:	NBCC 2015 / OBC 2012	2	Vertical		451	221	0	0
Deflection LL:	360	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal - II	Vibration:	Not Checked							
General Load				<u> </u>						
Floor Live:	40 PSF			Bea	rings and F	actored	d Read	ctions		
Dead:	15 PSF			Bea	aring Length	Dir.	Cap.	React D/L Ib	Total Ld. Case	Ld. Comb.
				1 -	Steel 5.250"	Vert	21%	111 / 294	405 L	1.25D+1.5L
				- 2 -	SPF 1.875"	Vert	60%	277 / 676	953 L	1.25D+1.5L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	1624 ft-lb	8'6 3/16"	5305 ft-lb	0.306 (31%)	1.25D+1.5L	L
Unbraced	1624 ft-lb	8'6 3/16"	5305 ft-lb	0.306 (31%)	1.25D+1.5L	L
Shear	942 lb	13'9 3/8"	2350 lb	0.401 (40%)	1.25D+1.5L	L
Perm Defl in.	0.045 (L/3546)	7'6 1/8"	0.447 (L/360)	0.102 (10%)	D	Uniform
LL Defl inch	0.093 (L/1734)	7'5 11/16"	0.447 (L/360)	0.208 (21%)	L	L
TL Defl inch	0.138 (L/1165)	7'5 13/16"	0.670 (L/240)	0.206 (21%)	D+L	L

Design Notes

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

4 Bottom flange must be laterally braced at a maximum of 12'3 3/8" o.c.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-5-4	0-4-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-2-10 to 13-10-8	0-1-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-5-4 to 12-2-2	0-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Part. Uniform	3-9-10 to 13-6-2		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	3-9-10 to 12-2-2		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
6	Tie-In	12-2-2 to 13-10-8	1-4-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	12-2-2 to 13-6-2		Тор	7 PLF	0 PLF	0 PLF	0 PLF	
8	Point	12-3-6		Near Face	130 l b	262 lb	0 lb	0 lb	F10

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 Lioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-pty 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 11/3/2024

Manufacturer Info

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

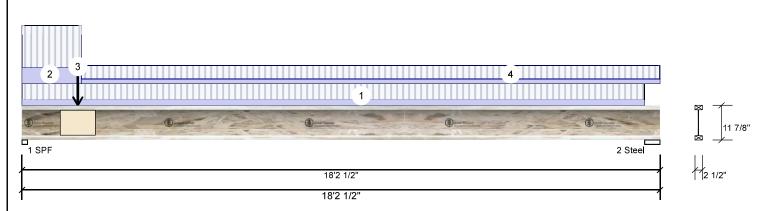
(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.

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



CSD DESIGN



Girder						•	TTERNED II	· (• p,	
Giraei	Application:	Floor (Residential)	Brg	Direction		Live	Dead	Snow	Wind
1	Design Method:	LSD	1	Vertical		706	264	0	0
Dry	Building Code:	NBCC 2015 / OBC 2012	2	Vertical		366	137	0	0
360	Load Sharing:	No							
240	Deck:	Not Checked							
Normal - II	Vibration:	Not Checked							
40 PSF			Bea	rings and Fa	actore	d Reac	tions		
15 PSF			Bea	aring Length	Dir.	Cap.	React D/L I b	Total Ld. Case	Ld. Comb.
			1 -	SPF 1.875"	Vert	88%	331 / 1059	1389 L	1.25D+1.5L
			2 -	Steel 5.250"	Vert	38%	171 / 549	720 L	1.25D+1.5L
	1 Dry 360 240 Normal - II	Design Method: Building Code: Load Sharing: Deck: Normal - II Vibration:	Design Method: LSD Building Code: NBCC 2015 / OBC 2012 Load Sharing: No Deck: Not Checked Vibration: Not Checked 40 PSF 15 PSF	1 Design Method: LSD 1 2 Dry Building Code: NBCC 2015 / OBC 2012 2 360 Load Sharing: No Deck: Not Checked 1 40 PSF	Design Method: LSD	Design Method: LSD	Design Method: LSD	1 Design Method: LSD	Design Method: LSD

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3450 ft-lb	8'1 5/16"	5305 ft-lb	0.650 (65%)	1.25D+1.5L	L
Unbraced	3450 ft-lb	8'1 5/16"	5305 ft-lb	0.650 (65%)	1.25D+1.5L	L
Shear	1375 lb	1 1/8"	2350 lb	0.585 (59%)	1.25D+1.5L	L
Perm Defl in	0.132 (L/1613)	8'8 7/16"	0.591 (L/360)	0.223 (22%)	D	Uniform
LL Defl inch	0.352 (L/605)	8'8 7/16"	0.591 (L/360)	0.595 (60%)	L	L
TL Defl inch	0.484 (L/440)	8'8 7/16"	0.887 (L/240)	0.546 (55%)	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 16'7 3/8" 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 17-9-4	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-8-6	1-4-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-7-2		Near Face	128 lb	342 lb	0 lb	0 lb	F10
4	Tie-In	1-8-6 to 18-2-8	0-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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 11/3/2024

Manufacturer Info

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

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

Kott Inc.





Project:

Address: **OSHAWA** Input by:

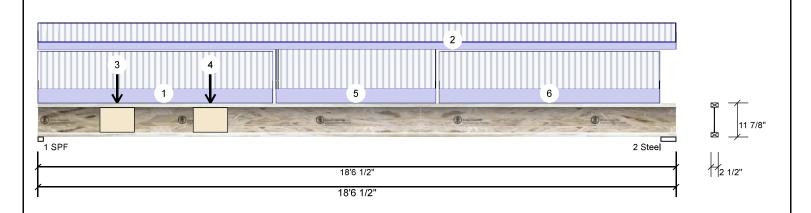
Job Name: VILLA 11-3-SNK

.875" - PASSED

TRUE COPY

is Dec 06 2023





Member Inforn	nation			Unf	actored Rea	actions	UNP	ATTERNED i i	b (Uplit	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	.ive	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical		548	205		0	0
Moisture Condition:	: Dry	Building Code:	NBCC 2015 / OBC 2012	2	Vertical		470	176		0	0
Deflection LL:	360	Load Sharing:	No								
Deflection TL:	240	Deck:	Not Checked								
Importance:	Normal - II	Vibration:	Not Checked								
General Load											
Floor Live:	40 PSF			Bea	rings and Fa	actored	Read	ctions			
Dead:	15 PSF			Be	aring Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 1.875"	Vert	68%	256 / 822	1078	L	1.25D+1.5L
				2 -	Steel 5.250"	Vert	48%	220 / 705	926	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4348 ft-lb	8'8 3/4"	5305 ft-lb	0.820 (82%)	1.25D+1.5L	L
Unbraced	4348 ft-lb	8'8 3/4"	5305 ft-lb	0.820 (82%)	1.25D+1.5L	L
Shear	1069 lb	1 1/8"	2350 lb	0.455 (45%)	1.25D+1.5L	L
Perm Defl in	0.170 (L/1279)	9' 3/16"	0.602 (L/360)	0.281 (28%)	D	Uniform
LL Defl inch	0.453 (L/479)	9' 3/16"	0.602 (L/360)	0.752 (75%)	L	L
TL Defl inch	0.623 (L/348)	9' 3/16"	0.904 (L/240)	0.689 (69%)	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 13'6 3/8" 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.

ı					•					
I	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Tie-In	0-0-0 to 6-9-14	0-9-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Tie-In	0-0-0 to 18-6-8	0-5-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	3	Point	2-3-10		Far Face	28 lb	76 l b	0 lb	0 lb	F9
	4	Point	5-0-2		Far Face	15 l b	41 l b	0 lb	0 l b	F9
	5	Tie-In	6-11-0 to 11-6-12	0-10-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	6	Tie-In	11-7-14 to 18-0-14	0-9-14	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 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 11/3/2024

Manufacturer Info

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

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

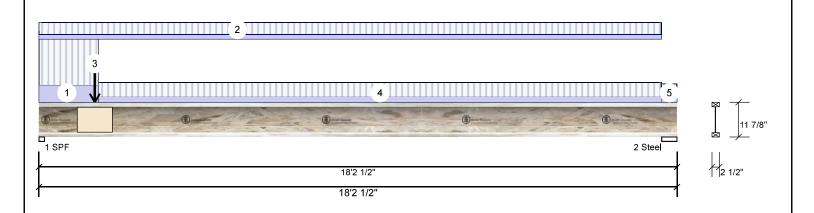
Kott Inc.



OSHAWA

.875" - PASSED





Member Info	rmation			Unf	actored Rea	actions	UNPA	ATTERNED I	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	l	_ive	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical		655	246	0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2015 / OBC 2012	2	Vertical		316	118	0	0
Deflection LL:	360	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal - II	Vibration:	Not Checked							
General Load										
Floor Live:	40 PSF			Bea	rings and F	actored	d Reac	tions		
Dead:	15 PSF			Ве	aring Length	Dir.	Сар.	React D/L I b	Total Ld. Case	Ld. Comb.
				1 -	SPF 1.875"	Vert	82%	307 / 983	1290 L	1.25D+1.5L
	_			_ 2 -	Steel 5.250"	Vert	32%	148 / 473	621 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3019 ft-lb	7'11 1/2"	5305 ft-lb	0.569 (57%)	1.25D+1.5L	L
Unbraced	3019 ft-lb	7'11 1/2"	5305 ft-lb	0.569 (57%)	1.25D+1.5L	L
Shear	1277 l b	1 1/8"	2350 lb	0.544 (54%)	1.25D+1.5L	L
Perm Defl in.	0.116 (L/1840)	8'7 15/16"	0.591 (L/360)	0.196 (20%)	D	Uniform
LL Defl inch	0.309 (L/690)	8'7 15/16"	0.591 (L/360)	0.522 (52%)	L	L
TL Defl inch	0.424 (L/502)	8'7 15/16"	0.887 (L/240)	0.478 (48%)	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 16'7 3/8" 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 1-8-6	1-4-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 17-9-4	0-4-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-7-2		Far Face	128 l b	342 l b	0 l b	0 lb	F10
4	Tie-In	1-8-6 to 17-9-4	0-5-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	17-9-4 to 18-2-8	0-4-12	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 ponding

This design is valid until 11/3/2024

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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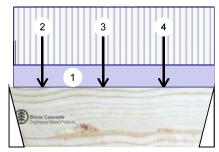
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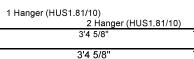
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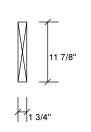
Address: Job Name: VILLA 11-3-SNK **OSHAWA**

E 3100 SP

22-012 Level: Gound Floor







	Member Inform	Member Information									
ı	Туре:	Girder	Application:	Floor (Residential)							
	Plies:	1	Design Method:	LSD							
	Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012							
	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									
ı											

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	569	249	0	0
2	Vertical	554	239	0	0
I					

Unfactored Reactions UNPATTERNED lb (Uplift)

Analysis Results Location Allowed Analysis Actual Capacity Comb. Case 855 ft-lb 1'6 5/8" 17696 ft-lb Moment 0.048 (5%) 1.25D+1.5L L Unbraced 855 ft-lb 1'6 5/8" 17696 ft-lb 0.048 (5%) 1.25D+1.5L L 0.094 (9%) 1.25D+1.5L L 680 lb 1'2 7/8" 7232 lb Shear Perm Defl in 0.001 1'8 1/16" 0.100 (L/360) 0.007 (1%) D Uniform (L/54590) 0.002 1'8 1/16" 0.100 (L/360) 0.015 (2%) L LL Defl inch (L/23778) TL Defl inch 0.002 1'8 1/16" 0.151 (L/240) 0.014 (1%) D+L (L/16564)

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	18%	311 / 854	1165	L	1.25D+1.5L
2 - Hanger	3.000"	Vert	18%	299 / 831	1130	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 Fill all hanger nailing holes.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top must be continuously laterally braced.
- 5 Bottom must have sheathing attached or be continuously braced.



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	Part. Uniform	0-0-14 to 3-4-10		Тор	79 PLF	210 PLF	0 PLF	0 PLF	
2	Point	0-6-10		Far Face	64 l b	131 l b	0 lb	0 lb	J2
3	Point	1-6-10		Far Face	72 l b	152 l b	0 lb	0 lb	J2
4	Point	2-6-10		Far Face	70 l b	145 l b	0 lb	0 lb	J2
	Self Weight				6 PLF				

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-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used

Dariga Beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

Kott Inc.

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





Client: Project:

Address: **OSHAWA** Input by: RΟ Job Name: VILLA 11-3-SNK

F15-A Versa Lagn Lv ∟ 2.′

TRUE COPY

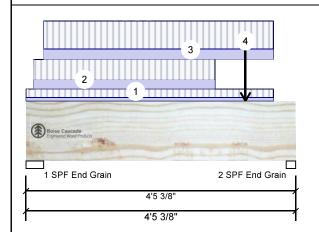
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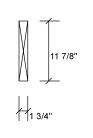
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E 3100 SP

Project #







wichiber intoin	iation		
Туре:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
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)
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Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1028	430	0	0
2	Vertical	886	371	0	0

Analysis Results

Design Notes

Member Information

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	2087 ft-lb	2'3 3/8"	17696 ft-lb	0.118 (12%)	1.25D+1.5L	L
Unbraced	2087 ft-lb	2'3 3/8"	17696 ft-lb	0.118 (12%)	1.25D+1.5L	L
Shear	1665 l b	3'3 5/8"	7232 l b	0.230 (23%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/17710)	2'3 7/16"	0.138 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.007 (L/7373)	2'3 7/16"	0.138 (L/360)	0.049 (5%)	L	L
TL Defl inch	0.010 (L/5206)	2'3 7/16"	0.206 (L/240)	0.046 (5%)	D+L	L

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.

Bearings and Factored Reactions

Dearings	bearings and ractored Reactions												
Bearing	Length	Dir.	Cap.	React D/L l b	Total	Ld. Case	Ld. Comb.						
1 - SPF End Grain	3.500"	Vert	28%	538 / 1542	2080	L	1.25D+1.5L						
2 - SPF End Grain	1.875"	Vert	45%	463 / 1329	1792	L	1.25D+1.5L						



JULY 21, 2023

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3 Top mu	3 Top must be continuously laterally braced.								
4 Bottom must have sheathing attached or be continuously braced.									
ID	Load Type	Location	Trib Width	Side	Dead				
	T:	0.001.110	4 40 0	-	45 005				

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 4-1-0	1-10-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-1-7 to 3-1-7		Far Face	80 PLF	175 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-3-8 to 4-1-0		Тор	90 PLF	240 PLF	0 PLF	0 PLF	
4	Point	3-7-7		Far Face	78 l b	172 l b	0 lb	0 lb	J3
	Self Weight				6 PLF				

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





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Client:

OSHAWA

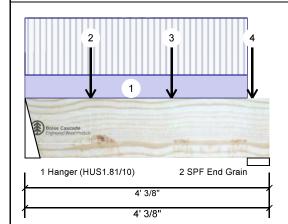
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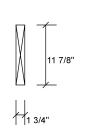
Job Name: VILLA 11-3-SNK

F15-B Versa Lam, Lv ∟ 2.1 E 3100 SP

22-012 Project # Level: Ground Floor - PASSED C

Brg





Snow

Wind

Member Information						
Туре:	Girder	Application:	Floor (Residential)			
Plies:	1	Design Method:	LSD			
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012			
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					

Unfa	actored	Reactions UNP	ATTERNED l b	(Uplift)
Brg	Direction	n Live	Dead	Sno

160

l '	vertical	109	70	U	U
2	Vertical	288	217	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	346 ft-lb	2'5"	17696 ft-lb	0.020 (2%)	1.25D+1.5L	L
Unbraced	346 ft-lb	2'5"	17696 ft-lb	0.020 (2%)	1.25D+1.5L	L
Shear	309 lb	1'2 7/8"	7232 lb	0.043 (4%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/118614)	1'11 11/16"	0.118 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/51699)	1'11 11/16"	0.118 (L/360)	0.007 (1%)	L	L
TL Defl inch	0.001 (L/36006)	1'11 11/16"	0.177 (L/240)	0.007 (1%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. Re	act D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	5%	95 / 253	348	L	1.25D+1.5L
2 - SPF End Grain	4.375"	Vert	8%	271 / 432	704	L	1.25D+1.5L



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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 Girders are designed to be supported on the bottom edge only.
- 4 Top must be continuously laterally braced.
- 5 Bottom must have sheathing attached or be continuously braced.

e Bettern maet have encarning attached or be continuedely braced.									
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-8-0		Тор	6 PLF	15 PLF	0 PLF	0 PLF	
2	Point	1-1-0		Near Face	46 lb	122 l b	0 lb	0 lb	J1
3	Point	2-5-0		Near Face	49 lb	130 l b	0 lb	0 l b	J1
4	Point	3-9-0		Near Face	152 b	150 b	0 lb	0 b	J1
	Self Weight				6 PLF				

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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

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





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Client: Project:

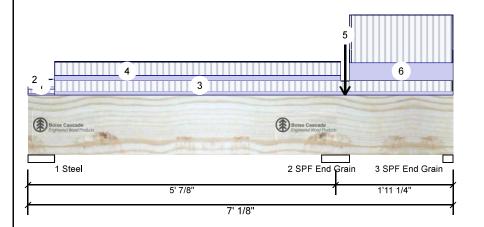
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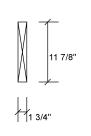
Input by: RΟ

Job Name: VILLA 11-3-SNK

F16-A E 3100 SP

22-012 Project # Level: Ground Floor





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

Unfactored Reactions	UNPATTERNED	lb	(Uplift)
-----------------------------	-------------	----	----------

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	82	45	0	0
2	Vertical	403	192	0	0
3	Vertical	50	19	0	0

Analysis Results

Member Information

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-195 ft-lb	5' 7/8"	17696 ft-lb	0.011 (1%)	1.25D+1.5L	LL
Unbraced	-195 ft-lb	5' 7/8"	10044 ft-lb	0.019 (2%)	1.25D+1.5L	LL
Pos Moment	159 ft-lb	2'3 7/16"	17696 ft-lb	0.009 (1%)	1.25D+1.5L	L_
Unbraced	159 ft-lb	2'3 7/16"	17696 ft-lb	0.009 (1%)	1.25D+1.5L	L_
Shear	147 lb	3'10 1/4"	7232 lb	0.020 (2%)	1.25D+1.5L	LL
Perm Defl in.	0.000 (L/202247)	2'6 1/8"	0.157 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.001 (L/98280)	2'6 1/2"	0.157 (L/360)	0.004 (0%)	L	L_
TL Defl inch	0.001 (L/66144)	2'6 3/8"	0.235 (L/240)	0.004 (0%)	D+L	L_

Bearings and Factored Reactions

Bearing Length	Dir.	Cap. I	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - Steel 5.250"	Vert	2%	55 / 126	181	L_	1.25D+1.5L
2 - SPF 5.500" End Grain	Vert	7%	242 / 610	852	LL	1.25D+1.5L
3 - SPF 2.000" End Grain	Vert	4%	22 / 137 1	59 (-35)	_L	1.25D+1.5L (0.9D+1.5L)

I MATHEVIC 100528832

VCE OF O JULY 21, 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 Tie-down connection required at bearing 3 for uplift 35 lb (Combination 0.9D+1.5L, Load Case L_).
- 4 Top must be continuously laterally braced.
- 5 Bottom must be laterally braced at bearings.

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.

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





Client: Project:

Address: **OSHAWA** Input by: RΟ Job Name: VILLA 11-3-SNK

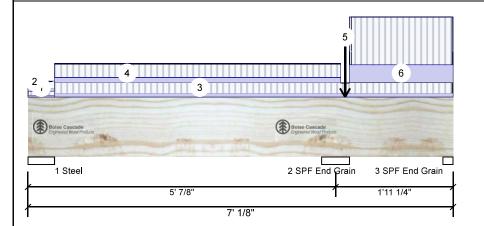
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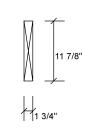
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OF PERMIT PLANS

is Dec 06 2023

Project# 22-012 "I- PASSED 3 LVJ: 3 COF Floor





I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-5-4	0-2-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-5-4	0-3-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-5-4 to 7-0-2	0-5-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	0-5-4 to 5-1-14	0-6-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Point	5-2-12		Near Face	76 l b	169 l b	0 l b	0 lb	F15
6	Tie-In	5-3-10 to 7-0-2	1-11-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				6 PLF				



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Notice 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.

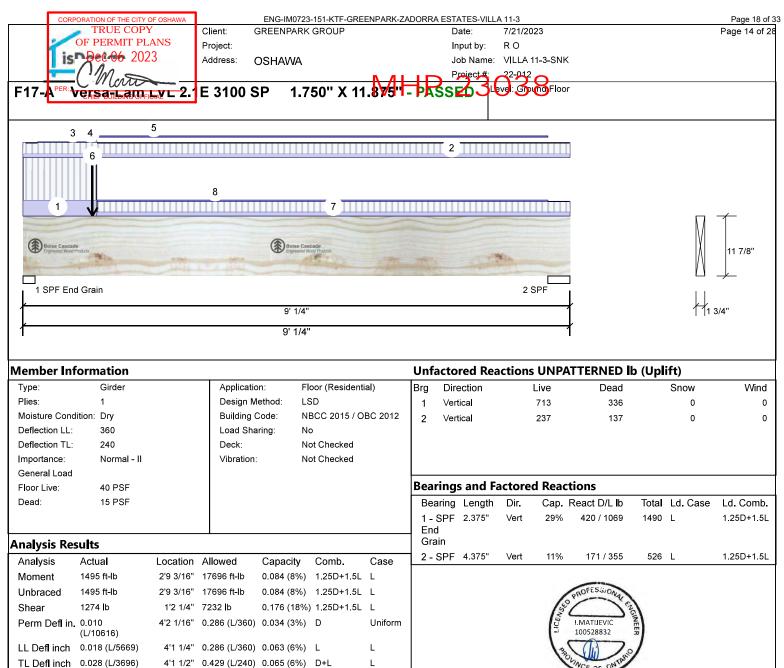
Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

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







Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1495 ft-lb	2'9 3/16"	17696 ft-lb	0.084 (8%)	1.25D+1.5L	L
Unbraced	1495 ft-lb	2'9 3/16"	17696 ft-lb	0.084 (8%)	1.25D+1.5L	L
Shear	1274 l b	1'2 1/4"	7232 l b	0.176 (18%)	1.25D+1.5L	L
Perm Defl in.	0.010 (L/10616)	4'2 1/16"	0.286 (L/360)	0.034 (3%)	D	Uniform
LL Defl inch	0.018 (L/5669)	4'1 1/4"	0.286 (L/360)	0.063 (6%)	L	L
TL Defl inch	0.028 (L/3696)	4'1 1/2"	0.429 (L/240)	0.065 (6%)	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 Top must be continuously laterally braced.
- 4 Bottom must be laterally braced at a maximum of 7'10 1/2" 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.

1 Bettern mack be laterally braced at a maximum of 1 To 1/2 c.c.									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-2-10	1-9-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 9-0-4	0-5-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-2-14 to 1-0-14		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	1-0-14 to 1-2-10		Тор	9 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	1-0-14 to 8-7-14		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
6	Point	1-1-12		Far Face	239 lb	554 lb	0 lb	0 lb	F14
7	Tie-In	1-2-10 to 9-0-4	0-5-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 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
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

1. LVL 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. Damageed Beams must not be used

Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

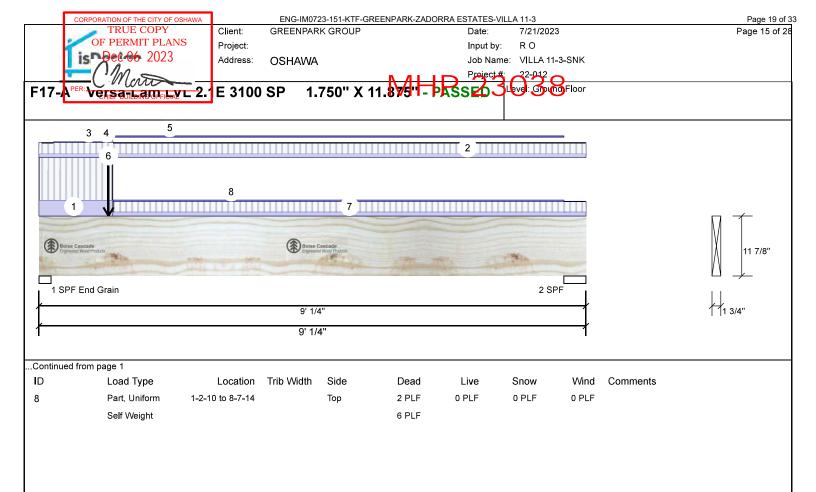
6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

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







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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 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

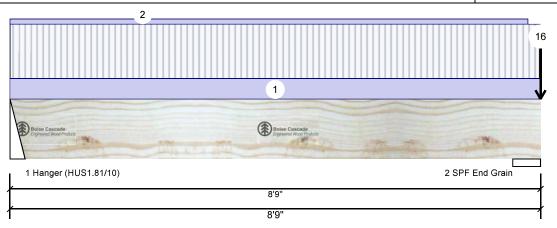
Manufacturer Info Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

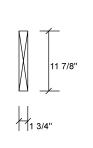
(800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

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







Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
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 Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	45	47	0	0
2	Vertical	90	143	112	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	246 ft-lb	4'3 1/4"	16457 ft-lb	0.015 (1%)	1.25D+1.5L	L
Unbraced	246 ft-lb	4'3 1/4"	16457 ft-lb	0.015 (1%)	1.25D+1.5L	L
Shear	97 lb	1'2 7/8"	6726 l b	0.014 (1%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/45048)	4'3 5/16"	0.272 (L/360)	0.008 (1%)	D	Uniform
LL Defl inch	0.002 (L/46220)	4'3 5/16"	0.272 (L/360)	0.008 (1%)	L+0.5S	L
TL Defl inch	0.004 (L/22813)	4'3 5/16"	0.408 (L/240)	0.011 (1%)	D+L+0.5S	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	2%	58 / 68	126	L	1.25D+1.5L
2 - SPF End Grain	5.500"	Vert	4%	178 / 258	436	L	1.25D+1.5S +L



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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 Girders are designed to be supported on the bottom edge only.
- 4 Top must be continuously laterally braced.
- 5 Bottom must be laterally braced at bearings.

o Dottoii iidot i									
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 8-9-0	0-3-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 8-6-8		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
3	Point	8-9-0		Тор	15 b	39 l b	0 b	0 lb	
	Bearing Length	0-5-8							
4	Point	8-9-0		Тор	24 l b	0 l b	63 lb	0 l b	

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

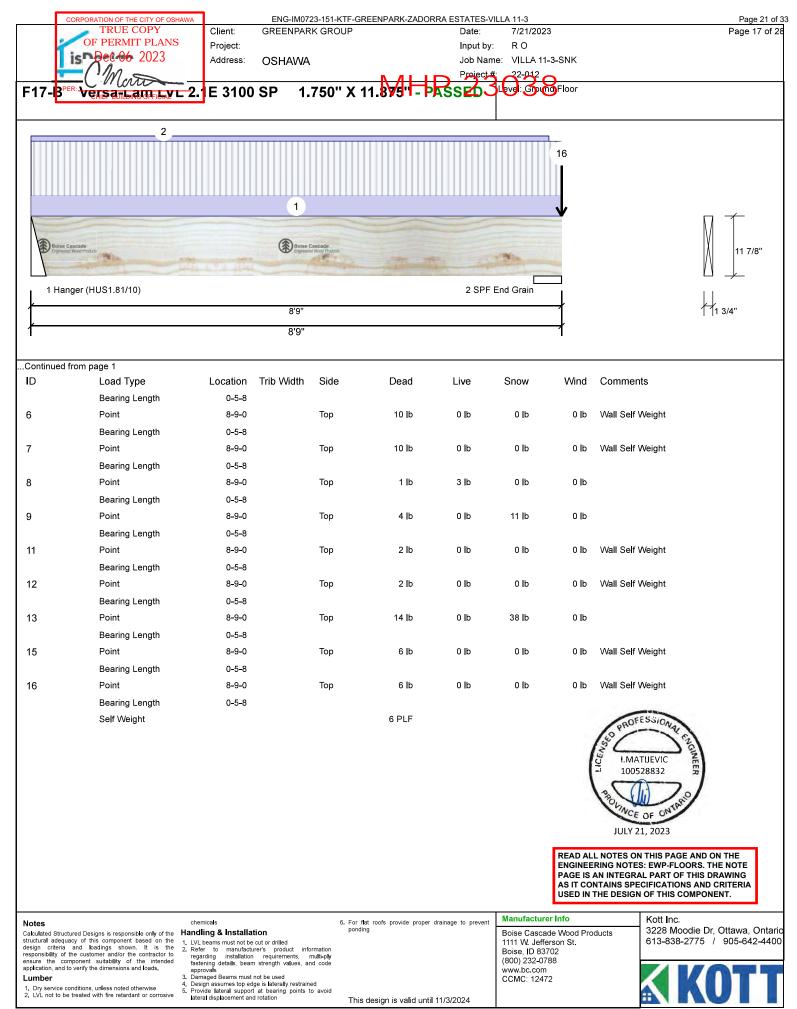
Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

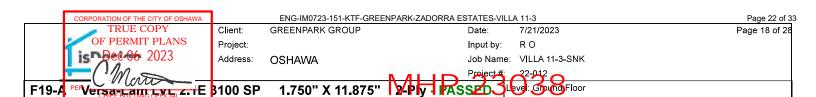
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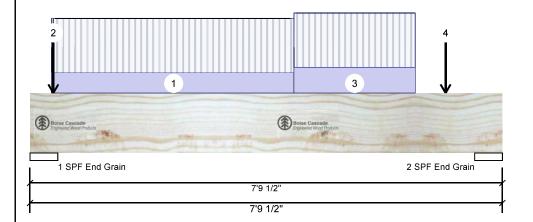


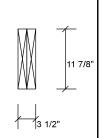




CSD DESIGN







Wind

Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
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		

Unf	actored Rea	ctions UNPAT	TERNED l b (Uplift)
Bra	Direction	Live	Dead	Snov

1	Vertical	522	282	0	0
2	Vertical	459	250	0	0

Analysis Results

Member Information

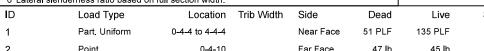
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1754 ft-lb	3'11 1/8"	35392 ft-lb	0.050 (5%)	1.25D+1.5L	L
Unbraced	1754 ft-lb	3'11 1/8"	35392 ft-lb	0.050 (5%)	1.25D+1.5L	L
Shear	1254 lb	6'4 1/8"	14464 l b	0.087 (9%)	1.25D+1.5L	L
Perm Defl in.	0.004 (L/22808)	3'11 1/8"	0.233 (L/360)	0.016 (2%)	D	Uniform
LL Defl inch	0.007 (L/11499)	3'10 11/16"	0.233 (L/360)	0.031 (3%)	L	L
TL Defl inch	0.011 (L/7645)	3'10 7/8"	0.350 (L/240)	0.031 (3%)	D+L	L

Bearings and Factored Reactions

•						
Bearing Length	n Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF 5.500" End Grain	Vert	5%	353 / 784	1136	L	1.25D+1.5L
2 - SPF 5.500" End Grain	Vert	4%	313 / 688	1001	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 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 must be continuously laterally braced.
- 5 Bottom must have sheathing attached or be continuously braced.
- 6 Lateral slenderness ratio based on full section width.





JULY 21, 2023

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-4-4 to 4-4-4		Near Face	51 PLF	135 PLF	0 PLF	0 PLF	
2	Point	0-4-10		Far Face	47 l b	45 lb	0 lb	0 lb	F17
3	Part. Uniform	4-4-4 to 6-4-4		Near Face	64 PLF	135 PLF	0 PLF	0 PLF	
4	Point	6-10-4		Near Face	61 l b	126 l b	0 l b	0 lb	J2
	Self Weight				12 PLF				

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and badings 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 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

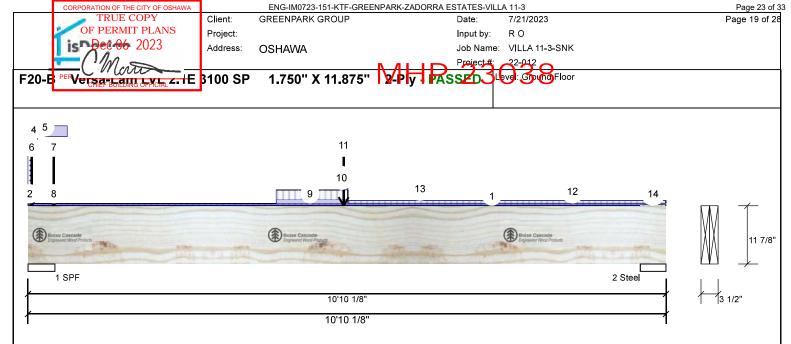
Manufacturer Info

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

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







Member Info	rmation			Unfactored Reactions UNPATTERNED Ib (Uplift)							
Type:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical		1878	2477		3639	0
Moisture Conditi	on: Dry	Building Code:	NBCC 2015 / OBC 2012	2	Vertical		444	253		0	0
Deflection LL:	360	Load Sharing:	No	-							
Deflection TL:	240	Deck:	Not Checked								
Importance:	Normal - II	Vibration:	Not Checked								
General Load											
Floor Live:	40 PSF			Bearings and Factored Reactions							
Dead:	15 PSF			Bear	ring Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1-S	SPF 5.500"	Vert	88%	3096 / 7336	10432	L	1.25D+1.5S +L
Analysis Resu	alysis Results				Steel 5.250"	Vert	5%	317 / 666	983	L	1.25D+1.5L

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4016 ft-lb	5'4 3/8"	33976 ft-lb	0.118 (12%)	1.25D+1.5L	L
Unbraced	4016 ft-lb	5'4 3/8"	33976 ft-lb	0.118 (12%)	1.25D+1.5L	L
Shear	905 lb	9'5"	13885 l b	0.065 (7%)	1.25D+1.5L	L
Perm Defl in.	0.015 (L/8124)	5'4 13/16"	0.336 (L/360)	0.044 (4%)	D	Uniform
LL Defl inch	0.028 (L/4248)	5'4 11/16"	0.336 (L/360)	0.085 (8%)	L+0.5S	L
TL Defl inch	0.043 (L/2789)	5'4 3/4"	0.504 (L/240)	0.086 (9%)	D+L+0.5S	L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at a maximum of 5'5 3/4" o.c.
- 8 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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-4-14	0-3-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tapered Start	0-0-0		Тор	108 PLF	0 PLF	282 PLF	0 PLF	
	End	0-0-12			107 PLF	0 PLF	280 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 0-2-8		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight

Continued on page 2...

Notes	
Calculated Structured Design	ns is responsible only
structural adequacy of this	component based of

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

Lumber

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

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

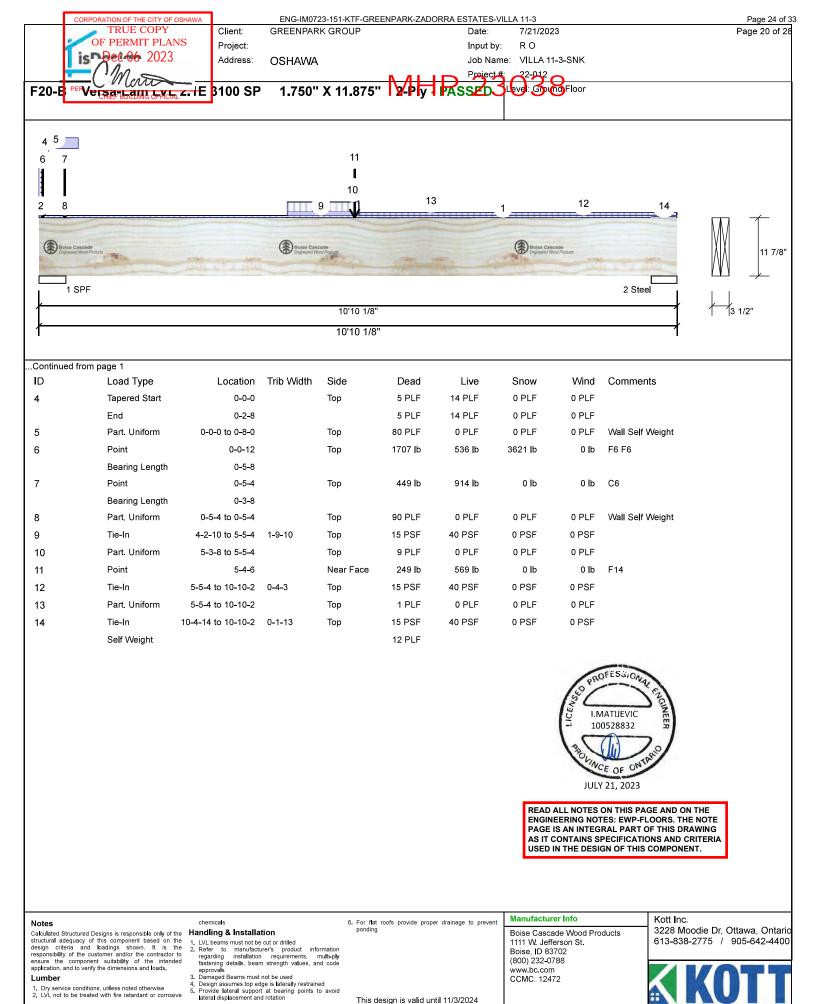
Manufacturer Info

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Kott Inc.

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





CSD DESIGN

TRUE COPY OF PERMIT PLANS is Dec 06 2023 Address:

Client: Project:

OSHAWA

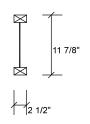
RΟ Input by:

Job Name: VILLA 11-3-SNK

875" - PASSED







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

Unfactored Reactions UNPATTERNED Ib (Uplift)										
Brg	Direction	Live	Dead	Snow	Wind					
1	Vertical	40	15	0	0					
2	Vertical	41	15	0	0					
1										

Analysis Results Location Allowed Capacity Case Analysis Actual Comb. 0.004 (0%) Moment 22 ft-lb 8 7/8" 5305 ft-lb 1.25D+1.5L L Unbraced 22 ft-lb 8 7/8" 5305 ft-lb 0.004 (0%) 1.25D+1.5L L 1.25D+1.5L L 69 lb 1 1/8" 2350 lb 0.029 (3%) Shear Perm Defl in 0.000 8 7/8" 0.043 (L/360) 0.002 (0%) D Uniform (L/235895) 0.000 8 7/8" 0.043 (L/360) 0.004 (0%) L LL Defl inch (L/88461)

Bearings and Factored Reactions Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 1.875" Vert 5% 19 / 60 79 L 1.25D+1.5L 2.000" 2 -Vert 5% 19 / 61 80 L 1.25D+1.5L Hanger

PROFESSIONA

I.MATIJEVIC

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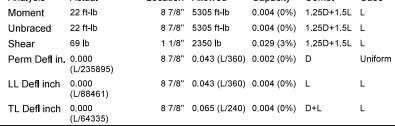
JULY 21, 2023

Design Notes

Floor Live:

Dead:

40 PSF 15 PSF



- READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: EWP-FLOORS. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING
- 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 Girders are designed to be supported on the bottom edge only.
- 4 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum
- 5 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.

AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-5-14	1_4_4	Ton	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

This design is valid until 11/3/2024

Manufacturer Info

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

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

Kott Inc.





TRUE COPY OF PERMIT PLANS is Dec 06 2023 Address:

Client: Project:

OSHAWA

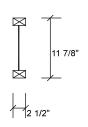
Input by: RΟ

Job Name: VILLA 11-3-SNK

875" - PASSED







Member Information

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

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	75	28	0	0
2	Vertical	76	28	0	0

Analysis Results

Dead:

15 PSF

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	42 ft-lb	8 7/8"	5305 ft-lb	0.008 (1%)	1.25D+1.5L	L
Unbraced	42 ft-lb	8 7/8"	5305 ft-lb	0.008 (1%)	1.25D+1.5L	L
Shear	129 l b	1'4 5/8"	2350 lb	0.055 (5%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/126329)	8 7/8"	0.043 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.000 (L/47373)	8 7/8"	0.043 (L/360)	0.008 (1%)	L	L
TL Defl inch	0.000 (L/34453)	8 7/8"	0.065 (L/240)	0.007 (1%)	D+L	L

Bearings and Factored Reactions

	,						
Bearing	Length	Dir.	Cap. Re	act D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	1.875"	Vert	9%	35 / 112	147	L	1.25D+1.5L
2 -	2.000"	Vert	9%	36 / 114	149	L	1.25D+1.5L
Hanger							

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

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind Comment
1	Tie-In	0-0-0 to 1-5-14	1-4-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF
2	Tie-In	0-0-0 to 1-5-14	1-2-2	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 11/3/2024

Manufacturer Info

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

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

Kott Inc.



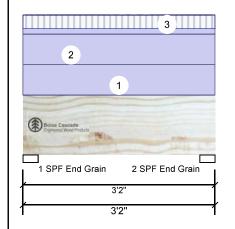


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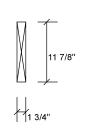
Project: Address: **OSHAWA**

Job Name: VILLA 11-3-SNK

22-012 PASSED Level: Gound Floor versattam Lvl 2.1E 3100 SP



Member Information



Snow

0

n

Wind

0

0

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

40 PSF	Bearings and Factored Reactions

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1.25D+1.5L 1-SPF 3.000" Vert 5% 227 L End Grain 2 - SPF 3.000" 184 / 43 227 L 1.25D+1.5L Vert

Dead

147

147

Unfactored Reactions UNPATTERNED Ib (Uplift)

Live

29

29

End Grain

Brg

1

2

Direction

Vertical

Vertica

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	139 ft-lb	1'7"	11502 ft-lb	0.012 (1%)	1.25D+1.5L	L
Unbraced	139 ft-lb	1'7"	11502 ft-lb	0.012 (1%)	1.25D+1.5L	L
Shear	141 lb	1'11 1/8"	4701 l b	0.030 (3%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/113409)	1'7"	0.093 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.000 (L/585425)	1'7"	0.093 (L/360)	0.001 (0%)	L	L
TL Defl inch	0.000	1'7"	0.140 (L/240)	0.003 (0%)	D+L	L



Analysis Results

- 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 Top must be continuously laterally braced.

(L/95005)

4 Bottom must have sheathing attached or be continuously braced.



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	Part, Uniform	0-0-0 to 3-2-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-2-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Near Face	7 PLF	18 PLF	0 PLF	0 PLF	
	End	3-2-0			7 PLF	18 PLF	0 PLF	0 PLF	
	Self Weight				6 PLF				

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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

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

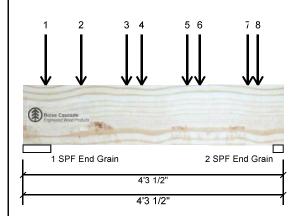


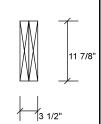


F18-A Versa-Larri LyL z. IE

1.750" X 11.875" **B100 SP**







Snow

0

n

Wind

1.25D+1.5L

0

0

Member Inform	nation		
Туре:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
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		

Vert

30%

Brg

1

2

End Grain

End Grain

Direction

Vertical

Vertica

2 - SPF 2.000"

Unfactored Reactions UNPATTERNED lb (Uplift)

Live

1321

1283

Bearings and Factored Reactions										
Bearing	Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.			
1 - SPF	5.500"	Vert	11%	664 / 1982	2646	L	1.25D+1.5L			

666 / 1924

2590 L

Dead

531

532

Analysis Results

Design Notes

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2379 ft-lb	1'11 1/2"	35392 ft-lb	0.067 (7%)	1.25D+1.5L	L
Unbraced	2379 ft-lb	1'11 1/2"	35392 ft-lb	0.067 (7%)	1.25D+1.5L	L
Shear	2587 lb	3'1 5/8"	14464 l b	0.179 (18%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/33569)	2'3 11/16"	0.126 (L/360)	0.011 (1%)	D	Uniform
LL Defl inch	0.003 (L/13685)	2'3 9/16"	0.126 (L/360)	0.026 (3%)	L	L
TL Defl inch	0.005 (L/9722)	2'3 5/8"	0.190 (L/240)	0.025 (2%)	D+L	L

LMATUEVIC 100528832 NCE OF O

IUI Y 21 2023 READ ALL NOTES ON THIS PAGE AND ON THE

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 must be continuously laterally braced.
- 5 Bottom must have sheathing attached or be continuously braced.
- 6 Lateral slenderness ratio based on full section width.

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	Point	0-4-8		Far Face	104 l b	278 l b	0 lb	0 l b	J5
2	Point	0-11-8		Near Face	132 l b	353 lb	0 lb	0 l b	J6
3	Point	1-8-8		Far Face	137 l b	365 l b	0 lb	0 lb	J5
4	Point	1-11-8		Near Face	130 l b	346 lb	0 lb	0 l b	J6
5	Point	2-8-8		Far Face	134 l b	313 lb	0 lb	0 l b	J5

Continued on page 2...

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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

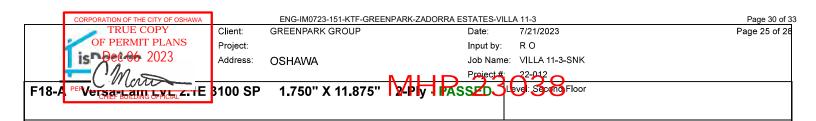
Manufacturer Info

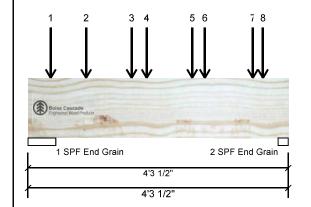
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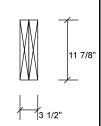
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Continued	from	page	1	

ID	Load Type	Location Trib Width	ı Side	Dead	Live	Snow	Wind	Comments
6	Point	2-11-0	Near Face	127 l b	338 lb	0 lb	0 l b	J6
7	Point	3-8-8	Far Face	147 l b	338 lb	0 l b	0 l b	J5
8	Point	3-10-8	Near Face	102 l b	273 l b	0 l b	0 l b	J6
	Self Weight			12 PLF				



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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. 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

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

This design is valid until 11/3/2024

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

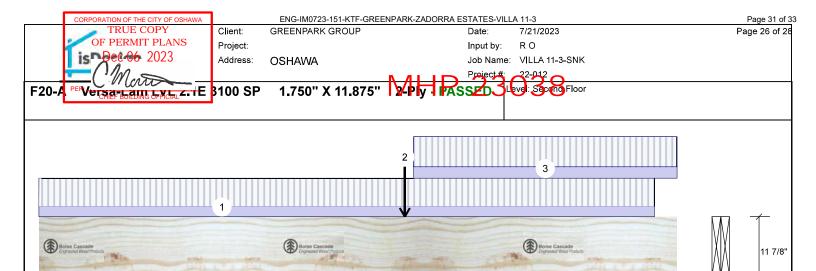
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www.bc.com CCMC: 12472

Kott Inc.







10'7 3/4' 10'7 3/4'

L				
Ī	Member Inform	nation		
ſ	Туре:	Girder	Application:	Floor (Residential)
l	Plies:	2	Design Method:	LSD
l	Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
l	Deflection LL:	360	Load Sharing:	No
l	Deflection TL:	240	Deck:	Not Checked
l	Importance:	Normal - II	Vibration:	Not Checked
l	General Load			
l	Floor Live:	40 PSF		
I	Dead:	15 PSF		
ı				

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	914	449	0	0
2	Vertical	1261	596	0	0

2 SPF End Grain

Analysis Results

1 SPF End Grain

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	10343 ft-lb	6'1 1/4"	35392 ft-lb	0.292 (29%)	1.25D+1.5L	L
Unbraced	10343 ft-lb	6'1 1/4"	35392 ft-lb	0.292 (29%)	1.25D+1.5L	L
Shear	2571 lb	9'2 3/8"	14464 l b	0.178 (18%)	1.25D+1.5L	L
Perm Defl in.	0.032 (L/3695)	5'6 13/16"	0.328 (L/360)	0.097 (10%)	D	Uniform
LL Defl inch	0.070 (L/1700)	5'7"	0.328 (L/360)	0.212 (21%)	L	L
TL Defl inch	0.102 (L/1164)	5'6 15/16"	0.493 (L/240)	0.206 (21%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	5.500"	Vert	8%	562 / 1370	1932	L	1.25D+1.5L
2 - SPF End Grain	5.500"	Vert	11%	745 / 1892	2636	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 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 6'1 1/4" o.c.

7 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.

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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-3-4	0-3-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	6-1-4		Near Face	856 lb	2006 lb	0 l b	0 l b	F21
3	Tie-In	6-3-0 to 10-7-12	0-3-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				12 PLF				

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and badings 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 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

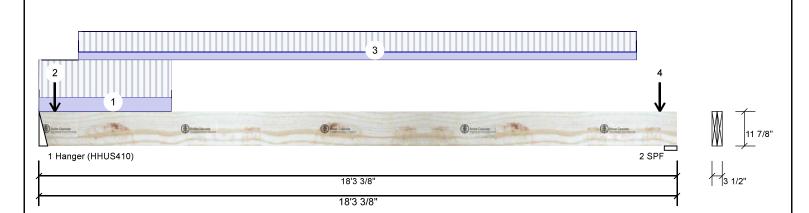
Manufacturer Info

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

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







Member Info	mation			Unfactored Reactions UNPATTERNED lb (Uplift)						
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead	Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical		2006	856	0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015 / OBC 2012	2	Vertical		1272	582	0	0
Deflection LL:	360	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal - II	Vibration:	Not Checked							
General Load										
Floor Live:	40 PSF			Bea	rings and F	actore	d Read	ctions		
Dead:	15 PSF			Be	aring Length	Dir.	Cap.	React D/L Ib	Total Ld. Case	Ld. Comb.
				1 - Ha	3.000" nger	Vert	32%	1070 / 3009	4078 L	1.25D+1.5L
Analysis Resu	lts				SPF 4.375"	Vert	28%	727 / 1908	2636 L	1.25D+1.5L
Analysis A	ctual Locat	tion Allowed Capac	ity Comb. Case					***		

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12386 ft-lb	8'5 7/16"	35392 ft-lb	0.350 (35%)	1.25D+1.5L	L
Unbraced	12386 ft-lb	8'5 7/16"	35392 ft-lb	0.350 (35%)	1.25D+1.5L	L
Shear	3494 lb	1'2 7/8"	14464 l b	0.242 (24%)	1.25D+1.5L	L
Perm Defl in.	0.153 (L/1397)	8'11 3/16"	0.593 (L/360)	0.258 (26%)	D	Uniform
LL Defl inch	0.341 (L/626)	8'10 7/8"	0.593 (L/360)	0.575 (57%)	L	L
TL Defl inch	0.494 (L/432)	8'10 15/16"	0.890 (L/240)	0.555 (55%)	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 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.

Versa Lann Lyu z. IE

- 6 Top must be continuously laterally braced.
- 7 Bottom must have sheathing attached or be continuously braced.
- 8 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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-9-8		Тор	90 PLF	240 PLF	0 PLF	0 PLF	
2	Point	0-5-8		Far Face	50 lb	133 lb	0 lb	0 l b	J2
3	Part. Uniform	1-1-8 to 17-1-8		Far Face	49 PLF	132 PLF	0 PLF	0 PLF	
4	Point	17-9-8		Far Face	46 lb	123 lb	0 lb	0 l b	J2
	Self Weight				12 PLF				

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and badings 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 multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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