

Nov 0 F2023 neeling NAMF FPP P2 13 (1) 35



PLEASE READ ALL NOTES PRIOR 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.
- 4. PASS-THRU TRANSFER BLOCK FRAMING IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.
- 5. IT IS ASSUMED THAT EACH LVL BEAM WHERE NOT SEATED IN A HANGER IS ATTACHED USING (4) FOUR 3-1/4" COMMON SPIRAL NAILS FOR UP TO 5.5" LONG BEARINGS AND USING (6) SIX 3-1/4" COMMON SPIRAL NAILS FOR BEARINGS EQUAL TO OR LONGER THAN 5.5", UNLESS INDICATED OTHERWISE.

CODE

THIS BUILDING COMPONENT IS DESIGNED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA, THE ONTARIO BUILDING CODE, CCMC AND CANADIAN STANDARDS ASSOCIATION GUIDELINES.

HANDLING AND INSTALLATION

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



MHP 23035

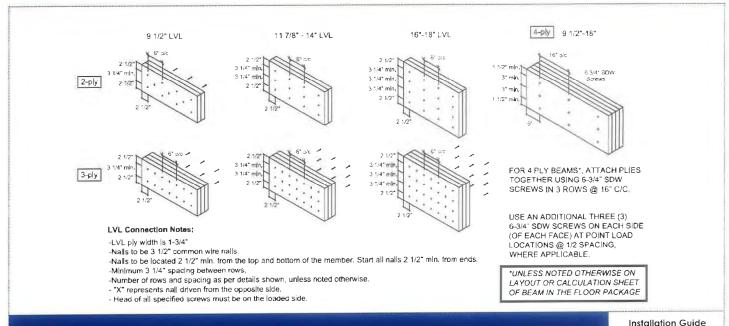
ENG-IM0723-119-KTF-GREENPARK-ZADORRA ESTATES-VILLA 3-1

Page 2 of 48

MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS



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



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

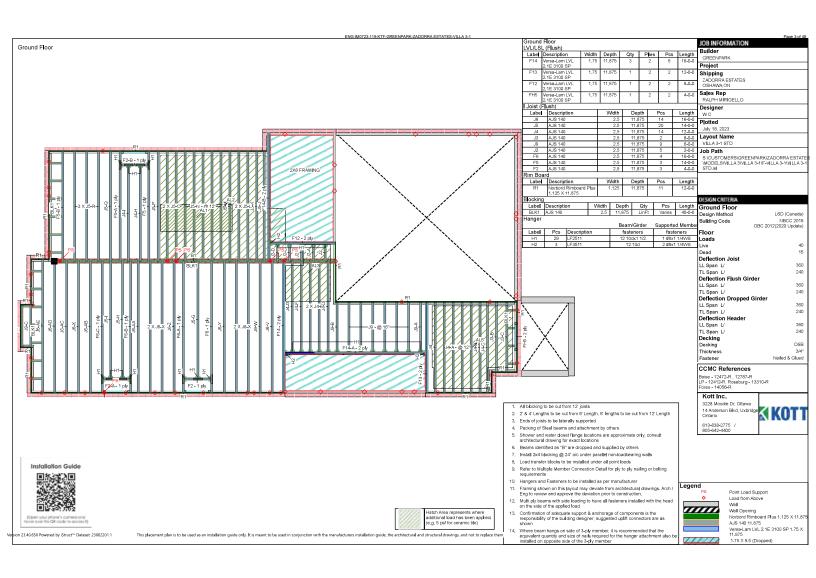




Last Revised January 13, 2023

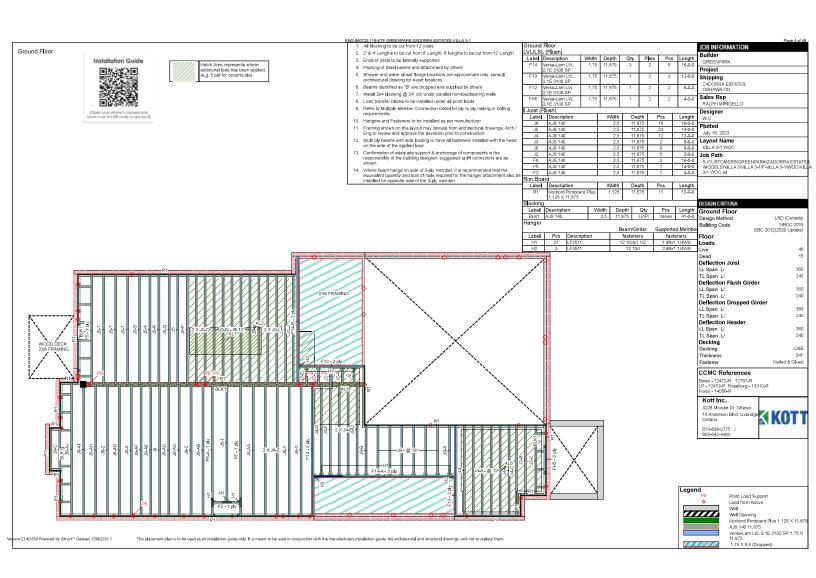


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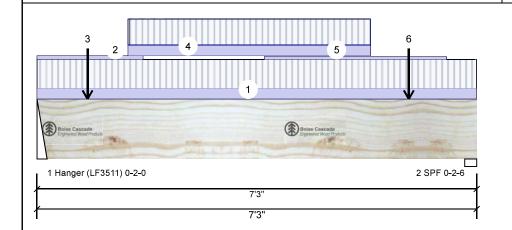


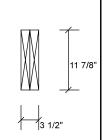


CORPORATION OF THE CITY OF OSHAWA F-GREENPARK-ZADORRA ESTATES-VILLA 3-1 Client: GREENPARK PERMIT PLANS Project Nov 04 2023

input by Job Name: Project #

2-Ply - PASSED Level: Ground Floor





Member Information **Unfactored Reactions UNPATTERNED lb (Uplift)** Floor (Residential) Type: Application: Plies 2 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	262	159	0	0
2	Vertical	255	156	0	0
l					

15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 2.000" Vert 8% 199 / 393 592 L 1.25D+1.5L Hanger Analysis Results 2 - SPF 2.375" Vert 11% 195 / 382 577 L 1.25D+1.5L Location Allowed Actual Capacity Comb. Case

Analysis 3'7 1/2" 35392 ft-lb Moment 1032 ft-lb 0.029 (3%) 1.25D+1.5L L Unbraced 1032 ft-lb 3'7 1/2" 35392 ft-lb 0.029 (3%) 1.25D+1.5L L 0.037 (4%) 1.25D+1.5L L 492 lb 1'1 7/8" 13217 lb Shear Perm Defl in 0.002 3'7 7/16" 0.234 (L/360) 0.010 (1%) D Uniform (L/34715) 0.004 3'7 5/16" 0.234 (L/360) 0.018 (2%) L LL Defl inch (L/20527) TL Defl inch 0.007 3'7 3/8" 0.351 (L/240) 0.019 (2%) D+L (L/12899)

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.



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

LVL beams must not be cut or drilled
Refer to manufacturer's product information
regarding installation requirements, multi-ply
fastening details, beam strength values, and code
approvals

Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding

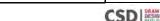
This design is valid until 4/17/2026

Manufacturer Info

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

www.bc.com CCMC: 12472





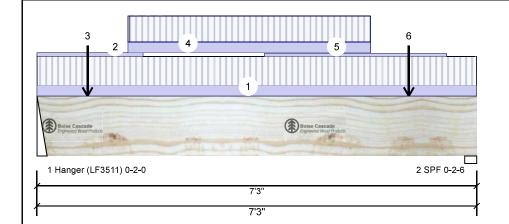


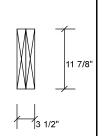
Client CREENPARK PERMIT PLANS Project Nov 04 2023

Hipput by 3035 Project #:

Versa-Lam LVL 2.1E 8100 SP BULL 107050 WLX 11.875"

2-Ply - PASSED Level: Ground Floor





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 7-3-0	1-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 1-9-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	
3	Point	0-10-0		Near Face	20 l b	42 l b	0 lb	0 lb	J2
4	Part. Uniform	1-6-0 to 5-6-0		Near Face	15 PLF	36 PLF	0 PLF	0 PLF	
5	Part. Uniform	3-9-0 to 6-9-1		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
6	Point	6-1-10		Near Face	20 l b	41 l b	0 lb	0 l b	J2
	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

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

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



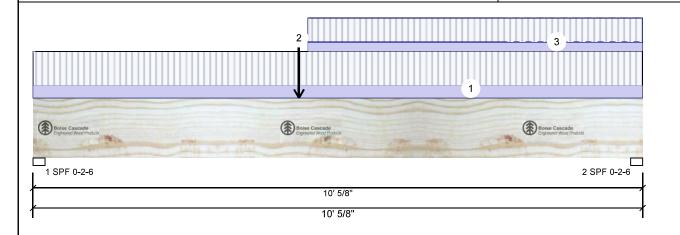




CORPORATION OF THE CITY OF OSHAWA TROLLE ENG-IN0723-119-KTF-GREENPARK-ZADORRA ESTATES-VILLA 3-1 Client: GREENPARK OF PERMIT PLANS Project Nov 04 2023

mout 🕢 🧥 🥟 Job Name: Project #:

2-Ply - PASSED Level: Ground Floor



Floor (Residential)

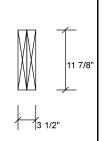
OBC 2012(2020 Update)

NBCC 2015

Not Checked

Not Checked

LSD



Member Information Type: Plies: 2

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

Importance: Normal - II General Load

Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	644	354	0	0
2	Vertical	557	309	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. Re	act D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	28%	443 / 965	1408	L	1.25D+1.5L
2 - SPF	2.375"	Vert	24%	387 / 835	1222	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5482 ft-lb	4'4 5/8"	35392 ft-lb	0.155 (15%)	1.25D+1.5L	L
Unbraced	5482 ft-lb	4'4 5/8"	35392 ft-lb	0.155 (15%)	1.25D+1.5L	L
Shear	1361 l b	1'2 1/4"	13217 l b	0.103 (10%)	1.25D+1.5L	L
Perm Defl in.	0.019 (L/6178)	4'10 5/16"	0.326 (L/360)	0.058 (6%)	D	Uniform
LL Defl inch	0.036 (L/3261)	4'10 1/8"	0.326 (L/360)	0.110 (11%)	L	L
TL Defl inch	0.055 (L/2134)	4'10 1/4"	0.489 (L/240)	0.112 (11%)	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 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 5'8" o.c.
- 7 Lateral slenderness ratio based on full section width.



JULY 19, 2023

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

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-0-10	0-5-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	4-4-10		Far Face	444 l b	932 lb	0 lb	0 lb	F14
3	Tie-In	4-6-6 to 10-0-10	0-4-2	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 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

Kott Inc.

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





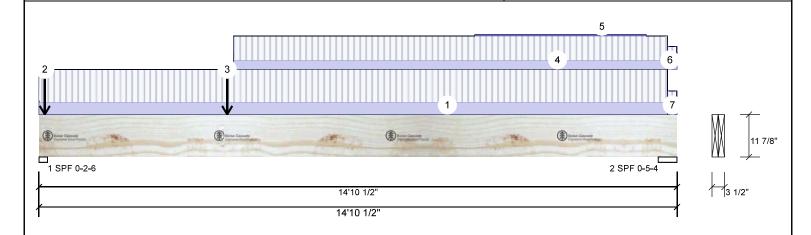


CORPORATION OF THE CITY OF OSHAWA F-GREENPARK-ZADORRA ESTATES-VILLA 3-1 Client: GREENPARK OF PERMIT PLANS Project Nov 04 2023

Input ly Job Name: NA 31)

Project #:

2-Ply - PASSED Level: Ground Floor



Member Info	rmation			Unf	actored Rea	actions U	NP	ATTERNED II	b (Upl	ift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Liv	Э	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	202	6	1040		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	71	2	391		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			Bea	rings and Fa	actored F	lea (ctions			
Dead:	15 PSF			Bea	aring Length	Dir. C	ар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert 8	35%	1300 / 3039	4339	L	1.25D+1.5L
				2 -	SPF 5.250"	Vert	14%	489 / 1068	1557	L	1.25D+1.5L

Analysis Results

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

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 2.375.
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at a maximum of 10'5 13/16" o.c.
- 8 Lateral clanderness ratio based on full section width

8 La	iteral sienderness ratio based o	n full section wiath.							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 14-7-14	0-7-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-1-10		Тор	435 lb	846 lb	0 lb	0 lb	C3
	Bearing Length	0-3-8							
3	Point	4-4-10		Near Face	600 lb	1314 lb	0 lb	0 lb	F14

Continued on page 2...

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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JULY 19, 2023

USED IN THE DESIGN OF THIS COMPONENT.

READ ALL NOTES ON THIS PAGE AND ON THE

ENGINEERING NOTES: EWP-FLOORS. THE NOTE

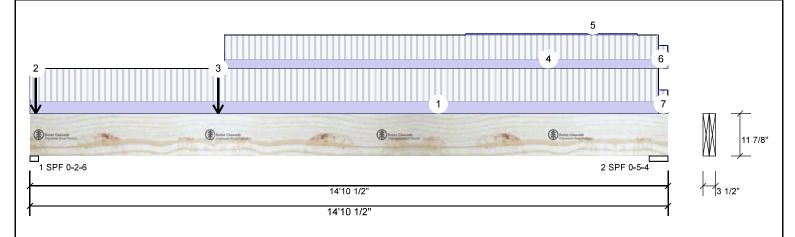
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3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





2-Ply - PASSED Level: Ground Floor Versa-Lam LVL 2.1E 8100 SP BULL 10750 LX 11.875"



Continued from p	Continued from page 1									
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
4	Tie-In	4-6-6 to 14-7-14	0-5-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
5	Part. Uniform	10-1-14 to 14-1-14		Тор	1 PLF	0 PLF	0 PLF	0 PLF		
6	Tie-In	14-7-14 to 14-10-8	0-3-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
7	Tie-In	14-7-14 to 14-10-8	0-4-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
	Self Weight				12 PLF					



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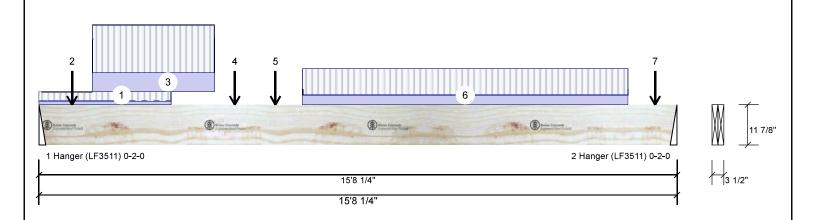
CORPORATION OF THE CITY OF OSHAWA FIND TO ENGLIN 0723-119-KTF-GREENPARK-ZADORRA ESTATES-VILLA 3-1 Client: GREENPARK OF PERMIT PLANS Project Nov 04 2023

mout 🕢 🧥 🥟 Job Name: Project #

Versa-Lam LVL 2.1E 3100 SP BUILD 1/750 LX 11.875"

2-Plv - PASSED

Level: Ground Floor



Member Inform	nation			Į
Туре:	Girder	Application:	Floor (Residential)	E
Plies:	2	Design Method:	LSD	ı
Moisture Condition: Deflection LL:	Dry 360	Building Code:	NBCC 2015 OBC 2012(2020 Update)	
Deflection TL: Importance:	240 Normal - II	Load Sharing: Deck: Vibration:	No Not Checked Not Checked	
General Load Floor Live:	40 PSF			Ī
Dead:	15 PSF			
				1

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1314	600	0	0
2	Vertical	932	444	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	36%	750 / 1970	2720	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	26%	556 / 1398	1954	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8377 ft-lb	7' 9/16"	35392 ft-lb	0.237 (24%)	1.25D+1.5L	L
Unbraced	8377 ft-lb	7' 9/16"	35392 ft-lb	0.237 (24%)	1.25D+1.5L	L
Shear	2627 lb	1'1 7/8"	13217 l b	0.199 (20%)	1.25D+1.5L	L
Perm Defl in.	0.080 (L/2309)	7'8 1/8"	0.516 (L/360)	0.156 (16%)	D	Uniform
LL Defl inch	0.172 (L/1079)	7'7 13/16"	0.516 (L/360)	0.334 (33%)	L	L
TL Defl inch	0.253 (L/735)	7'8"	0.774 (L/240)	0.326 (33%)	D+L	L

Design Notes

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



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-2-15		Тор	15 PLF	40 PLF	0 PLF	0 PLF	
2	Point	0-9-12		Far Face	78 l b	197 l b	0 lb	0 l b	J4
3	Part. Uniform	1-3-12 to 4-3-12		Far Face	79 PLF	201 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

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.

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







Continued from page 1

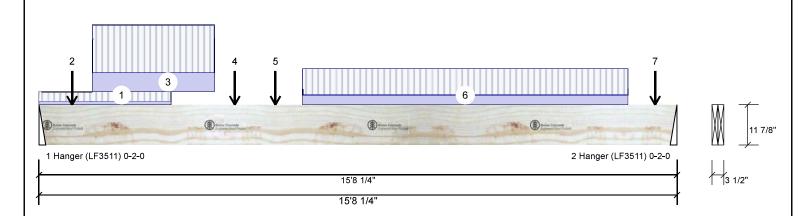


Pout by 3035 Project #:

Versa-Lam LVL 2.1E 3100 SP BUILD 750 X 11.875"

2-Ply - PASSED

Level: Ground Floor



I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Point	4-9-12		Far Face	77 l b	197 l b	0 l b	0 lb	J4
5	Point	5-9-12		Far Face	48 lb	128 l b	0 l b	0 lb	J9
6	Part. Uniform	6-5-12 to 14-5-12		Far Face	41 PLF	110 PLF	0 PLF	0 PLF	
7	Point	15-1-12		Far Face	42 lb	111 l b	0 lb	0 l b	J9
	Self Weight				12 PLF				



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

Notes

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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

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 8 of 36

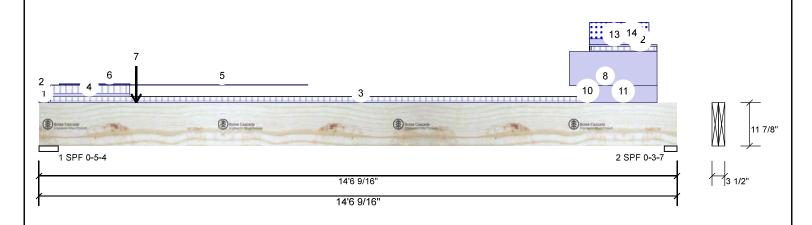
7/18/2023 Input 🕢 🥎 🔑 Job Name: NA

Project #

Versa-Lam LVL 2.1E 3100 SP BULL N. 7.50 LLX 11.875"

2-Plv - PASSED

Level: Ground Floor



Member Inforn	nation			Unfa	actored Rea	ections UN	IPATTERNED	lb (Upli [,]	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	341	296		4	0
Moisture Condition:	: Dry	Building Code:	NBCC 2015	2	Vertical	104	359		48	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 Re	eactions			
Dead:	15 PSF			Bea	aring Length	Dir. Ca	p. React D/L I b	Total	Ld. Case	Ld. Comb.
				1 -	SPF 5.250"	Vert 8	369 / 512	882	L	1.25D+1.5L
		ļ		2 -	SPF 3.464"	Vert 1	1% 449 / 71	521	L	1.25D+1.5S

Analysis Results

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	1687 ft-lb	5'9 5/8"	32915 ft-lb	0.051 (5%)	1.25D+1.5L +S	L
Unbraced	1687 ft-lb	5'9 5/8"	32915 ft-lb	0.051 (5%)	1.25D+1.5L +S	L
Shear	789 l b	1'5 1/8"	12160 lb	0.065 (6%)	1.25D+1.5L	L
Perm Defl in	0.025 (L/6595)	7'3 7/8"	0.465 (L/360)	0.055 (5%)	D	Uniform
LL Defl inch	0.020 (L/8539)	6'10 1/8"	0.465 (L/360)	0.042 (4%)	L+0.5S	L
TL Defl inch	0.045 (L/3726)	7'1 3/8"	0.697 (L/240)	0.064 (6%)	D+L+0.5S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 2'1 1/16" o.c.
- 6 Bottom must be laterally braced at a maximum of 12'3 15/16" o.c.
- 7 Lateral slenderness ratio based on full section width.



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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-2-10	0-5-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-2-10	0-2-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-2-10 to 12-5-7	0-3-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	0-2-10 to 2-0-14	0-5-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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. 3228 Moodie Dr, Ottawa, Ontario

613-838-2775 / 905-642-4400



Client CREENPARK PERMIT PLANS Project Nov 04 2023

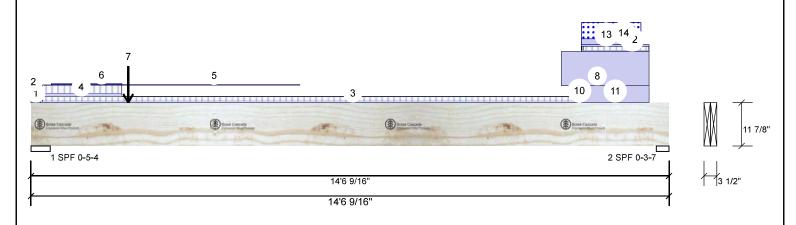
Pout by 3035

Project #:

Versa-Lam LVL 2.1E 3100 SP BULL 14.750 LX 11.875"

2-Ply - PASSED

Level: Ground Floor



Continued f	from page 1								
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Part. Uniform	0-5-9 to 6-1-9		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
6	Part. Uniform	0-5-9 to 2-0-14		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
7	Point	2-2-10		Near Face	159 l b	262 l b	0 lb	0 lb	F12
8	Part. Uniform	12-1-1 to 14-1-1		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Tapered Start	12-6-0		Тор	0 PLF	1 PLF	0 PLF	0 PLF	
	End	12-6-0			0 PLF	1 PLF	0 PLF	0 PLF	
10	Part. Uniform	12-6-0 to 12-6-0		Тор	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
11	Part. Uniform	12-6-9 to 14-1-1		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
12	Tapered Start	12-6-9		Тор	3 PLF	9 PLF	0 PLF	0 PLF	
	End	14-1-1			3 PLF	9 PLF	0 PLF	0 PLF	
13	Part. Uniform	12-6-9 to 14-1-1		Тор	4 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
14	Part. Uniform	12-6-9 to 13-10-14		Тор	14 PLF	0 PLF	38 PLF	0 PLF	
	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

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



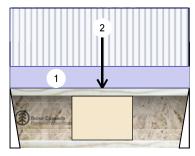


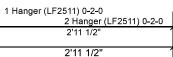
Project #

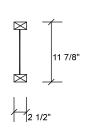
F2 **AJS 140** 11.875

Level: Ground Floor

7/18/2023







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		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	245	92	0	0
2	Vertical	258	97	0	0

Analysis Results

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

Bearings and Factored Reactions

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

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.



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

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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 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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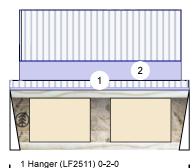
CORPORATION OF THE CITY OF OSHAWA FIND TO ENGLIN 0723-119-KTF-GREENPARK-ZADORRA ESTATES-VILLA 3-1 Client: GREENPARK PERMIT PLANS Project Nov 04 2023 TATES

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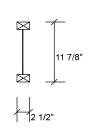
Project #

F2-A **AJS 140** 11.<mark>875'</mark>

Level: Ground Floor







\//ind

Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Member Information Application: Floor (Residential) Type: Plies: 1 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF 15 PSF Dead:

פיטן	Direction	LIVC	Dead	CHOW	VVIIIG
1	Vertical	335	125	0	0
2	Vertical	340	127	0	0
D					
Beai	rings and F	actored Reacti	ons		

Cap. React D/L lb

157 / 502

159 / 510

41%

42%

Total Ld. Case

659 L

669 L

Unfactored Reactions UNPATTERNED Ib (Uplift)

Live

Dir.

Vert

Vert

Analysis Results Analysis

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	463 ft-lb	1'5 3/4"	5305 ft-lb	0.087 (9%)	1.25D+1.5L	L
Unbraced	463 ft-lb	1'5 3/4"	5305 ft-lb	0.087 (9%)	1.25D+1.5L	L
Shear	662 lb	2'10 1/4"	2350 lb	0.282 (28%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/19766)	1'5 3/4"	0.092 (L/360)	0.018 (2%)	D	Uniform
LL Defl inch	0.004 (L/7403)	1'5 3/4"	0.092 (L/360)	0.049 (5%)	L	L
TL Defl inch	0.006 (L/5386)	1'5 3/4"	0.137 (L/240)	0.045 (4%)	D+L	L

OFESSIE I.MATIJEVIC 100528832

NCE OF OF

Bra Direction

Bearing Length

2.000"

2.000"

1 _

2 -

Hanger

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.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-11-8	0-9-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-1-14 to 2-9-14		Far Face	82 PLF	219 PLF	0 PLF	0 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
 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 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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CORPORATION OF THE CITY OF OSHAWA F-GREENPARK-ZADORRA ESTATES-VILLA 3-1 Client: GREENPARK OF PERMIT PLANS Project Nov 04 2023 TATES

input 🙌 🧥 Job Name:

Project #

Brg

2

Hanger

Hanger

2.000"

Vert

2 -

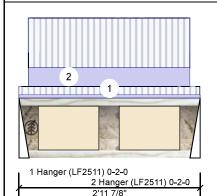
Direction

Vertical

Vertical

F2-B **AJS 140** 11.875"

Level: Ground Floor



2'11 7/8'

11 7/8"

Wind

1.25D+1.5L

0

0

Membe	r Inforr	mation

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

287

284

35%

Bearings and Factored Reactions											
Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.				
1 -	2.000"	Vert	35%	134 / 431	565	L	1.25D+1.5L				

Dead

107

106

Snow

559 L

0

0

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	399 ft-lb	1'5 15/16"	5305 ft-lb	0.075 (8%)	1.25D+1.5L	L
Unbraced	399 ft-lb	1'5 15/16"	5305 ft-lb	0.075 (8%)	1.25D+1.5L	L
Shear	559 lb	1 1/4"	2350 lb	0.238 (24%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/23174)	1'5 15/16"	0.093 (L/360)	0.016 (2%)	D	Uniform
LL Defl inch	0.004 (L/8635)	1'5 15/16"	0.093 (L/360)	0.042 (4%)	L	L
TI Deflinch	0.005 (L/6291)	1'5 15/16"	0.139 (L/240)	0.038 (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"
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- 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.

18	PROFESSIONAL	2
LICEA	I.MATIJEVIC 100528832	INEER
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	JULY 19, 2023	

132 / 427

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	Comments
1	Tie-In	0-0-0 to 2-11-14	0-9-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-1-13 to 2-9-13		Near Face	67 PLF	180 PLF	0 PLF	0 PLF	

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

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
 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.

This design is valid until 4/17/2026

Manufacturer Info

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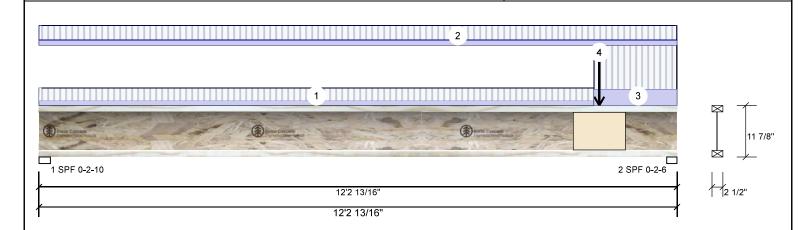


Project #

11.875 F5 **AJS 140**

Level: Ground Floor

7/18/2023



Member Inforr	nation			Unf	actored Rea	actions l	JNP	ATTERNED II	b (Uplif	t)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Liv	/e	Dead	5	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	2	81	105		0	0
Moisture Condition Deflection LL:	: Dry 360	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	5	64	211		0	0
Deflection TL: Importance: General Load	240 Normal - II	Load Sharing: Deck: Vibration:	No Not Checked Not Checked								
Floor Live:	40 PSF			Bea	rings and F	actored	Read	ctions			
Dead:	15 PSF			1	aring Length SPF 2.625"	Dir. Vert	Cap. 32%	React D/L l b 132 / 422	Total L 554 L	.d. Case	Ld. Comb. 1.25D+1.5L
Analysis Posult				2 -	SPF 2.375"	Vert	66%	264 / 846	1110 L	-	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1862 ft-lb	7' 3/8"	5305 ft-lb	0.351 (35%)	1.25D+1.5L	L
Unbraced	1862 ft-lb	7' 3/8"	5305 ft-lb	0.351 (35%)	1.25D+1.5L	L
Shear	1087 l b	12'1 3/16"	2350 lb	0.463 (46%)	1.25D+1.5L	L
Perm Defl in	0.035 (L/4082)	6'5"	0.398 (L/360)	0.088 (9%)	D	Uniform
LL Defl inch	0.094 (L/1529)	6'5"	0.398 (L/360)	0.235 (24%)	L	L
TL Defl inch	0.129 (L/1112)	6'5"	0.597 (L/240)	0.216 (22%)	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.

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	JULY 19, 2023	

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-7-11	0-5-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-2-13	0-6-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	10-7-11 to 12-2-13	1-7-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	10-8-15		Far Face	106 l b	284 lb	0 lb	0 lb	F2

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 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.





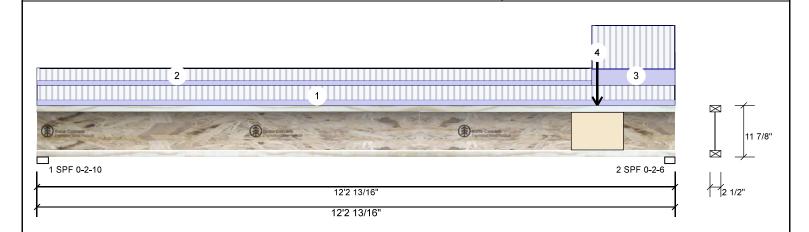
Page 14 of 36

Project #

AJS 140 F5-A

11.875'the PACRED

Level: Ground Floor



Member Inform	mation			Unfa	actored Rea	ctions U	NP/	ATTERNED I I	b (Up l i	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	е	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	28	2	106		0	0
Moisture Condition:	: Dry	Building Code:	NBCC 2015	2	Vertical	56	7	212		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	rings and Fa	actored R	lead	ctions			
Dead:	15 PSF			Bea	aring Length	Dir. C	ар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.625"	Vert 3	32%	132 / 423	555	L	1.25D+1.5L
				2 -	SPF 2.375"	Vert 6	66%	265 / 851	1116	L	1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1867 ft-lb	7' 1/2"	5305 ft-lb	0.352 (35%)	1.25D+1.5L	L
Unbraced	1867 ft-lb	7' 1/2"	5305 ft-lb	0.352 (35%)	1.25D+1.5L	L
Shear	1093 l b	12'1 3/16"	2350 lb	0.465 (47%)	1.25D+1.5L	L
Perm Defl in.	0.035 (L/4072)	6'5 1/16"	0.398 (L/360)	0.088 (9%)	D	Uniform
LL Defl inch	0.094 (L/1525)	6'5 1/16"	0.398 (L/360)	0.236 (24%)	L	L
TL Defl inch	0.129 (L/1109)	6'5 1/16"	0.597 (L/240)	0.216 (22%)	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.



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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	0-6-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 10-7-11	0-5-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	10-7-11 to 12-2-13	1-7-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	10-8-15		Near Face	107 l b	287 lb	0 l b	0 l b	F2

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

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

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

Kott Inc.

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







CORPORATION OF THE CITY OF OSHAWA FIND TO ENGLIN 0723-119-KTF-GREENPARK-ZADORRA ESTATES-VILLA 3-1 Client: GREENPARK PERMIT PLANS Project Nov 04 2023

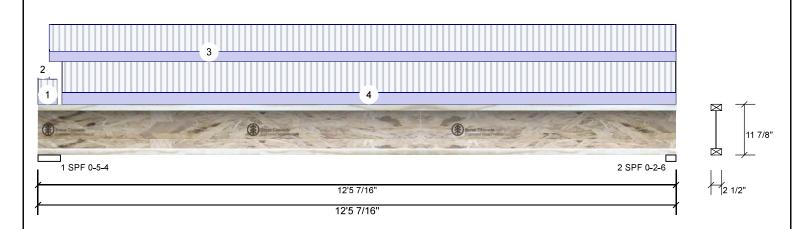
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Project #

AJS 140 F5-B

11.<mark>875"</mark>

Level: Ground Floor



Member Information Unfactored Reactions UNPATTERNED Ib (Uplift) Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 1 Design Method: LSD Vertical 353 132 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 351 131 0 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 5.250" Vert 36% 165 / 530 695 L 1.25D+1.5L 2 - SPF 2.375" Vert 41% 164 / 526 690 L 1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2015 ft-lb	6'4 3/16"	5305 ft-lb	0.380 (38%)	1.25D+1.5L	L
Unbraced	2015 ft-lb	6'4 3/16"	5305 ft-lb	0.380 (38%)	1.25D+1.5L	L
Shear	675 l b	12'3 13/16"	2350 lb	0.287 (29%)	1.25D+1.5L	L
Perm Defl in.	0.037 (L/3845)	6'4 3/16"	0.398 (L/360)	0.094 (9%)	D	Uniform
LL Defl inch	0.099 (L/1442)	6'4 3/16"	0.398 (L/360)	0.250 (25%)	L	L
TL Defl inch	0.137 (L/1049)	6'4 3/16"	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.



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 0-4-8	0-5-7	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-2-10	0-2-9	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-2-10 to 12-5-7	0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	0-5-10 to 12-5-7	0-9-3	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

This design is valid until 4/17/2026

Manufacturer Info

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

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

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



AJS 140

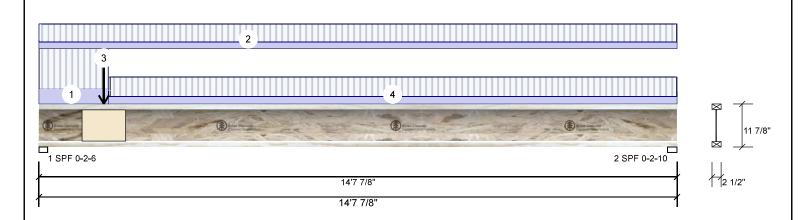
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Project #

11.875

Level: Ground Floor

7/18/2023



Member Infor	mation			Unfa	actored Rea	actions	UNP	ATTERNED I I	b (Uplift)		
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead	Sn	ow	Wind
Plies:	1	Design Method:	LSD	1	Vertical		716	269		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical		461	173		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	rings and Fa	actored	Read	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Cap.	React D/L Ib	Total Ld	. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	84%	336 / 1074	1410 L		1.25D+1.5L
				2 -	SPF 2.625"	Vert	52%	216 / 691	907 L		1.25D+1.5L

Analysis Results

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

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.



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	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	0-8-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-14		Far Face	97 l b	258 lb	0 lb	0 lb	F2
4	Tie-In	1-7-2 to 14-7-14	0-9-4	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

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





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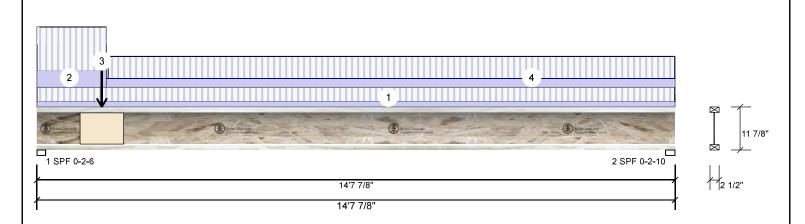
Project #

AJS 140 F6-A

11 875' PARCEMEN

Level: Ground Floor

7/18/2023



Member Inform	nation			Unfa	actored Rea	ctions	UNP	ATTERNED II	b (Uplif	t)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead	S	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	6	359	247		0	0
Moisture Condition:	: Dry	Building Code:	NBCC 2015	2	Vertical	4	417	156		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	rings and Fa	actored	Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	Total L	_d. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	77%	309 / 988	1297 L	-	1.25D+1.5L
				2 -	SPF 2.625"	Vert	47%	195 / 625	820 L	-	1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3078 ft-lb	6'10 1/16"	5305 ft-lb	0.580 (58%)	1.25D+1.5L	L
Unbraced	3078 ft-lb	6'10 1/16"	5305 ft-lb	0.580 (58%)	1.25D+1.5L	L
Shear	1275 l b	1 5/8"	2350 lb	0.543 (54%)	1.25D+1.5L	L
Perm Defl in	0.080 (L/2160)	7'1 7/8"	0.479 (L/360)	0.167 (17%)	D	Uniform
LL Defl inch	0.213 (L/810)	7'1 7/8"	0.479 (L/360)	0.444 (44%)	L	L
TL Defl inch	0.293 (L/589)	7'1 7/8"	0.718 (L/240)	0.407 (41%)	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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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 14-7-14	0-6-4	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	92 l b	245 lb	0 lb	0 l b	F2
4	Tie-In	1-7-2 to 14-7-14	0-9-12	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

1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788

www.bc.com CCMC: 12787

Boise Cascade Wood Products

Manufacturer Info Kott Inc.

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



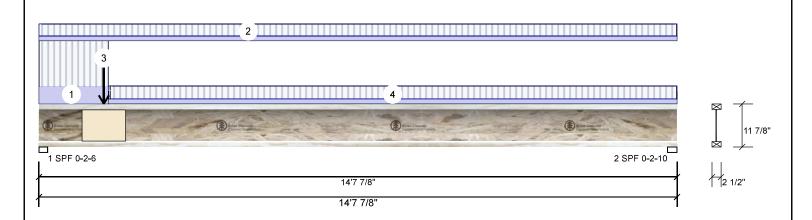


Project #

11 875'bher DANG QUED **AJS 140** F6-B

Level: Ground Floor

7/18/2023



Member Inform	Unfactored Reactions UNPATTERNED lb (Uplift)									
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical		633	237	0	0
Moisture Condition	: Dry	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical	292		110	0	0
Deflection LL:	360		, ,							
Deflection TL:	240	Load Sharing:	No							
Importance:	Normal - II	Deck:	Not Checked							
General Load		Vibration:	Not Checked							
Floor Live:	40 PSF			Bea	rings and F	actore	d Reac	tions		
Dead:	15 PSF			Be	aring Length	Dir.	Cap.	React D/L I b	Total Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	74%	296 / 949	1245 L	1.25D+1.5L
Analosia Dassile				2 -	SPF 2.625"	Vert	33%	137 / 438	575 L	1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2312 ft-lb	6'3 11/16"	5305 ft-lb	0.436 (44%)	1.25D+1.5L	L
Unbraced	2312 ft-lb	6'3 11/16"	5305 ft-lb	0.436 (44%)	1.25D+1.5L	L
Shear	1224 l b	1 5/8"	2350 lb	0.521 (52%)	1.25D+1.5L	L
Perm Defl in.	0.060 (L/2859)	7' 1/8"	0.479 (L/360)	0.126 (13%)	D	Uniform
LL Defl inch	0.161 (L/1071)	7' 1/8"	0.479 (L/360)	0.336 (34%)	L	L
TL Defl inch	0.221 (L/779)	7' 1/8"	0.718 (L/240)	0.308 (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.



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 1-7-2	1-7-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 14-7-14	0-5-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-14		Far Face	127 l b	340 lb	0 lb	0 lb	F2
4	Tie-In	1-7-2 to 14-7-14	0-5-7	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

Manufacturer Info

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