Page 1 of 48

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

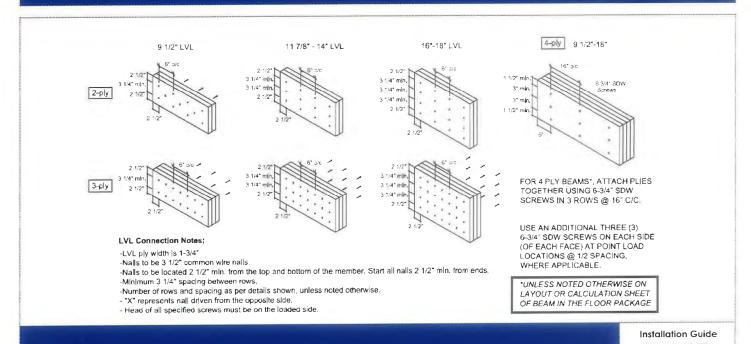
ENG-IM0723-120-KTF-GREENPARK-ZADORRA ESTATES-VILLA 3-2

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

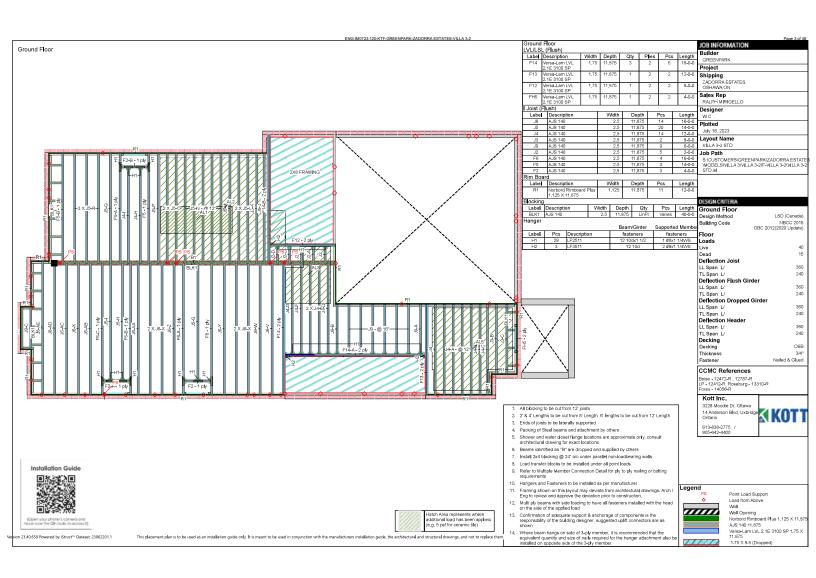


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Last Revised January 13, 2023

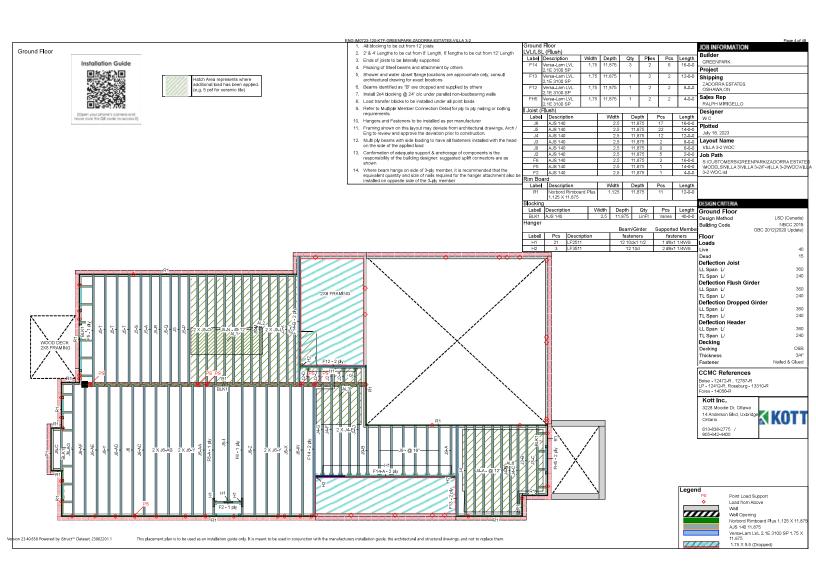


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MHP 23035



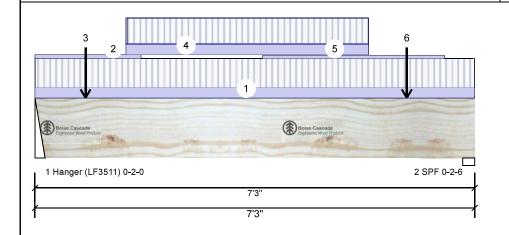
CORPORATION OF THE CITY OF OSHAWA

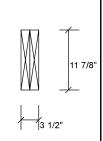
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F-GREENPARK-ZADORRA ESTATES-VILLA 3-2 Client: GREENPARK PERMIT PLANS Project Nov 04 2023

input by Job Name: Project #

2-Ply - PASSED Level: Ground Floor





Wind

1.25D+1.5L

0

0

Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Floor (Residential) Type: Brg Direction Live Dead Snow Plies: 2 Design Method: LSD 262 Vertical 159 0 1 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertica 255 156 n 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 Dead: 15 PSF 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

2 - SPF 2.375"

Vert

11%

195 / 382

577 L

Analysis Res	sults					
Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	1032 ft-lb	3'7 1/2"	35392 ft-lb	0.029 (3%)	1.25D+1.5L	L
Unbraced	1032 ft-lb	3'7 1/2"	35392 ft-lb	0.029 (3%)	1.25D+1.5L	L
Shear	492 lb	1'1 7/8"	13217 l b	0.037 (4%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/34715)	3'7 7/16"	0.234 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.004 (L/20527)	3'7 5/16"	0.234 (L/360)	0.018 (2%)	L	L
TI Deflinch	0.007	3'7 3/8"	0.351 (L/240)	0.019 (2%)	D+L	L

Design Notes

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

(L/12899)

- 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.

Notes

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

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

Handling & Installation

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

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

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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

Boise Cascade Wood Products

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







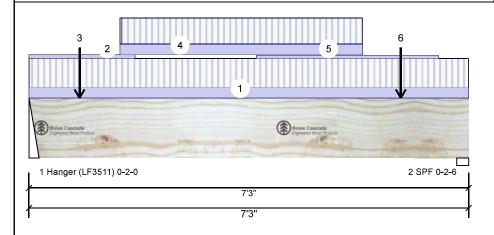
Client: GREENPARK OF PERMIT PLANS Project Nov 04 2023

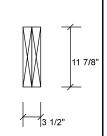
Hipput by 3035

Project #:

Versa-Lam LVL 2.1E 8100 SP BULL 107050 LX 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 lb	42 lb	0 lb	0 l b	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 lb	41 lb	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

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





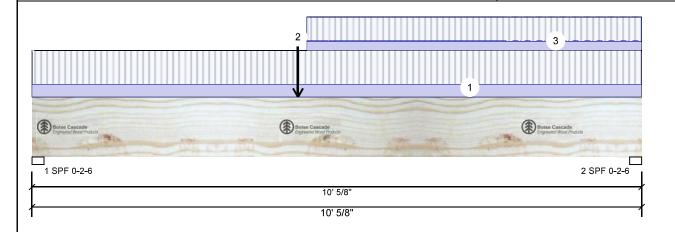


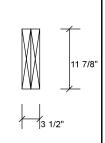
CORPORATION OF THE CITY OF OSHAWA TRUE ENGLINO 23-120-K F-GREENPARK-ZADORRA ESTATES-VILLA 3-2 Client: GREENPARK PERMIT PLANS Project Nov 04 2023

Input 🕢 🥎 🔑 Job Name: Project #:

Versa-Lam LVL 2.1E 3100 SP = BUILD N 7 50 1 1 1 875"

2-Ply - PASSED Level: Ground Floor





Member Information

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

40 PSF

15 PSF

Application: Floor (Residential) Design Method: LSD

Building Code: NBCC 2015 OBC 2012(2020 Update)

Load Sharing: Deck: Not Checked

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

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

Bearings and Factored Reactions

_							
Bearing	Length	Dir.	Cap. Re	eact 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

PROFESSION

I.MATIJEVIC 100528832

Analysis Results

Floor Live:

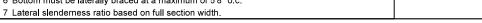
Dead:

Analysis	Actua l	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

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.

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.



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



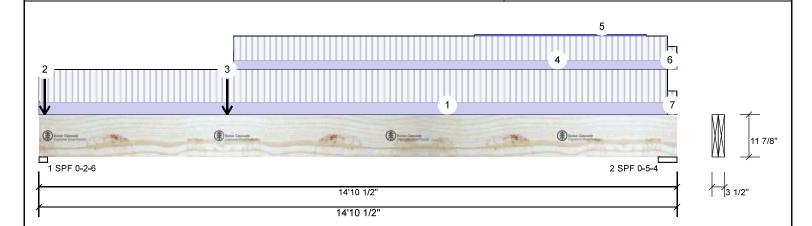




CORPORATION OF THE CITY OF OSHAWA TOTAL ENGLINO 723-120-KT F-GREENPARK-ZADORRA ESTATES-VILLA 3-2 Client: GREENPARK PERMIT PLANS Project Nov 04 2023

input 🙌 🧥 Job Name: Project #

2-Ply - PASSED Level: Ground Floor



Member Infor	mation			Unfa	actored Rea	actions UNP	ATTERNED II	b (Uplift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	1745	935	0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	712	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			Bear	ings and Fa	actored Rea	ctions		
Dead:	15 PSF			Bea	ring Length	Dir. Cap.	React D/L Ib	Total Ld. Case	Ld. Comb.
				1 - 9	SPF 2.375"	Vert 74%	1169 / 2617	3787 L	1.25D+1.5L
				2-9	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 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 14-7-14	0-7-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Point	0-1-10		Тор	330 lb	565 lb	0 l b	0 l b	C3
		Bearing Length	0-3-8							
	3	Point	4-4-10		Near Face	600 lb	1314 l b	0 l b	0 lb	F14
(Continued on page	2								

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

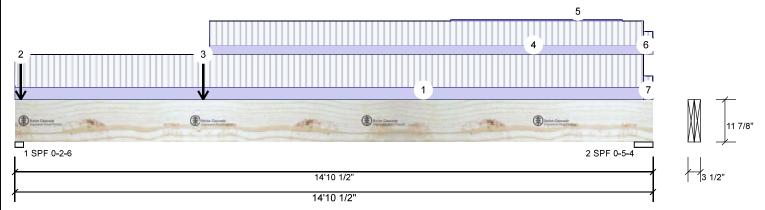
Kott Inc.

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









Continued from p	age 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				



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

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Dry service conditions, unless noted otherwise
 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

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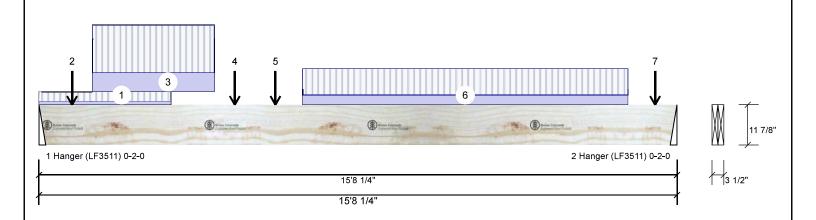


Client: GREENPARK PERMIT PLANS Project Nov 04 2023

mout 🕢 🧥 🧞 Job Name: Project #

2-Plv - PASSED

Level: Ground Floor



Member Inforn	nation			Unf	act
Туре:	Girder	Application:	Floor (Residential)	Brg	
Plies:	2	Design Method:	LSD	1	٧
Moisture Condition: Deflection LL:	Dry 360	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	٧
Deflection TL:	240	Load Sharing:	No		
Importance:	Normal - II	Deck:	Not Checked		
General Load		Vibration:	Not Checked		
Floor Live:	40 PSF			Bea	rin
Dead:	15 PSF			Be	arir
				1 -	
				_ Ha	nge
				1	

Unfactored Reactions UNPATTERNED Ib (Upl	ift)
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Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1314	600	0	0
2	Vertical	932	444	0	0

ngs 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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100	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	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 lb	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





Client CREENPARK PERMIT PLANS Project Nov 04 2023

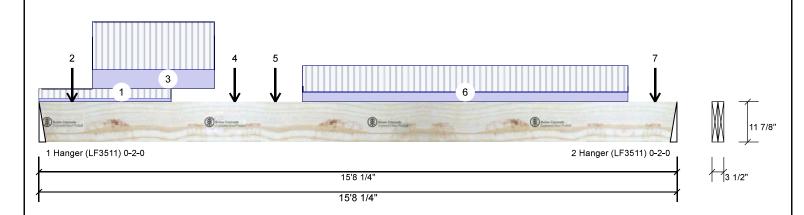
Hopet by 3035

Project #:

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

2-Ply - PASSED

Level: Ground Floor



Continued from	page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	Point	4-9-12		Far Face	77 l b	197 l b	0 lb	0 l b	J4
5	Point	5-9-12		Far Face	48 l b	128 l b	0 lb	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 l b	111 l b	0 lb	0 lb	J9
	Self Weight				12 PLF				



JULY 19, 2023

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

Notes

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Handling & Installation

Handling & Installation

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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



This design is valid until 4/17/2026



Kott Inc.

Page 8 of 36

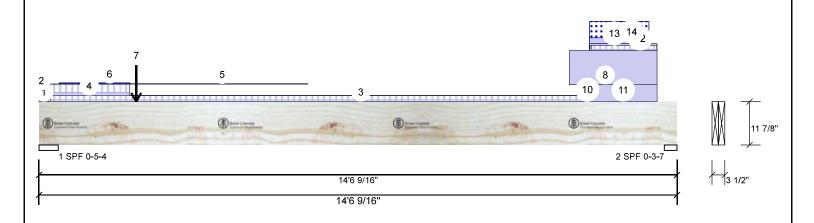
7/18/2023 input 🙌 🧥 Job Name:

Project #

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

2-Plv - PASSED

Level: Ground Floor



Member Infor	mation			Unfa	actored Rea	actions	UNP	ATTERNED I	b (Up l i	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	ive	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	;	341	296		4	0
Moisture Conditio	n: 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	rings and Fa	actored	Read	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 5.250"	Vert	8%	369 / 512	882	L	1.25D+1.5L
				2 -	SPF 3.464"	Vert	11%	449 / 71	521	L	1.25D+1.5S

Analysis Results

Ana l ysis	Actual	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 lb	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



BOFESSION

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/ Lateral Sieriae	inces ratio basca on	full 300tion width.							
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

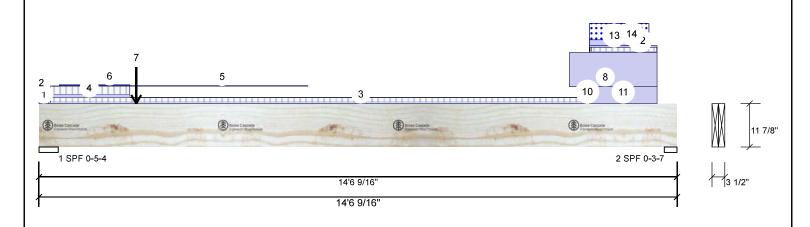
Input ly Job Name: JILA 323 TD

Project #:

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

2-Ply - PASSED

Level: Ground Floor



Continued from p	page 1								
ID	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 lb	262 lb	0 l b	0 l b	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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Handling & Installation

Handling & Installation

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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





AJS 140

F2

11.87<mark>5"</mark>

Project #

Bearing Length

2.000"

2.000"

1 _

2 -

Hanger

Hanger

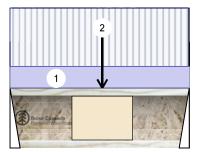
Dir.

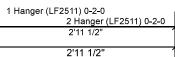
Vert

Vert

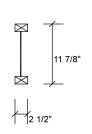
Level: Ground Floor

7/18/2023





Member Information



Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Application: Floor (Residential) Type: Plies 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:

Unfactored Reactions UNPATTERNED Ib (Uplift)												
	Brg	Direction	Live	Dead	Snow	Wind						
	1	Vertical	245	92	0	0						
·)	2	Vertical	258	97	0	0						
	Bea	rings and Fac	tored Reacti	ions								

Cap. React D/L lb

114 / 368

121 / 387

30%

32%

Total Ld. Case

482 L

508 L

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

I.MATIJEVIC 100528832 NCE OF OF

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.

Design Notes

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

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 l b	412 l b	0 l b	0 lb	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 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.







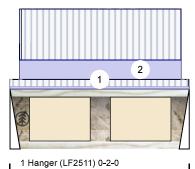
CORPORATION OF THE CITY OF OSHAWA ENGLINO 723-120-K-F-GREENPARK-ZADORRA ESTATES-VILLA 3-2 Client: GREENPARK PERMIT PLANS Project Nov 04 2023 TATES

input by Job Name:

Project #

F2-A **AJS 140** 11.875'the

Level: Ground Floor



11 7/8"

	1 Hanger (LF2511) 0-2-0	
4	2 Hanger (LF2511) 0-2-0	_
	2'11 1/2"	1
4	0144 44011	_
	2'11 1/2"	

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:

Analysis Res	sults					
Analysis	Actual	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 l b	2'10 1/4"	2350 lb	0.282 (28%)	1.25D+1.5L	L
Dame Dag :	0.000	415 274"	0.000 (1./200)	0.040 (00/)	D	Uniform

ľ	Dosign Notes								
	TL Defl inch	0.006 (L/5386)	1'5 3/4"	0.137 (L/240)	0.045 (4%)	D+L	L		
	LL Defl inch	0.004 (L/7403)	1'5 3/4"	0.092 (L/360)	0.049 (5%)	L	L		
	Perm Defl in.	0.002 (L/19766)	1'5 3/4"	0.092 (L/360)	0.018 (2%)	D	Uniform		
	Shear	662 lb	2'10 1/4"	2350 lb	0.282 (28%)	1.25D+1.5L	L		
	Unbraced	463 ft-lb	1'5 3/4"	5305 ft-lb	0.087 (9%)	1.25D+1.5L	L		

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 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
- maximum 2' o.c

2' o.c.		•	l
7 If sheathing is not attached	to the bottom flange, bottom flan	ge must be laterally braced at	ı

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	335	125	0	0
2	Vertical	340	127	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. R	eact D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	41%	157 / 502	659	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	42%	159 / 510	669	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 2-11-8	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 PI F	219 PLF	0 PI F	0 PI F	

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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. Julist flanges must not be cut or drilled

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

 3. Damaged IJoists must not be used

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

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

This design is valid until 4/17/2026

Manufacturer Info

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

Kott Inc.







CORPORATION OF THE CITY OF OSHAWA ENGLINO 723-120-K-F-GREENPARK-ZADORRA ESTATES-VILLA 3-2 Client: GREENPARK PERMIT PLANS Project Nov 04 2023

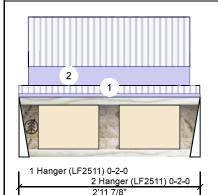
input 🙌 🧥 Job Name:

Project #

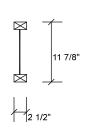
F2-B **AJS 140**

11.875"

Level: Ground Floor



2'11 7/8'



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	
Floor Live:	40 PSF

Floor Live: Dead: 15 PSF Application: Floor (Residential)

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

Load Sharing:

Not Checked Deck:

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	287	107	0	0
2	Vertical	284	106	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	35%	134 / 431	565	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	35%	132 / 427	559	L	1.25D+1.5L

Analysis Results

Analysis	Actual	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
TL Defl inch	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"
- 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
- 7 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.

0-1-13 to 2-9-13



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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	

Near Face

2

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Handling & Installation

- Handling & Installation

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 notes.

180 PLF

67 PLF

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

This design is valid until 4/17/2026

Manufacturer Info

0 PLF

Boise Cascade Wood Products 1111 W. Jefferson St.

0 PLF

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

Kott Inc.

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



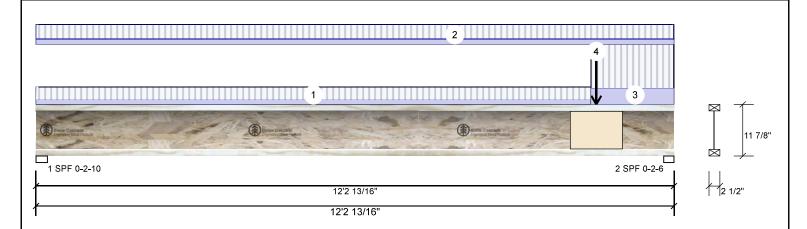


Part. Uniform

Project #

11.875 F5 **AJS 140**

Level: Ground Floor



Member Inforn	nation			Unfactored Reactions UNPATTERNED lb (Uplift)						
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind	
Plies:	1	Design Method:	LSD	1	Vertical	281	105	0	0	
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	564	211	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 F	actored Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir. Cap	React D/L lb	Total Ld. Case	Ld. Comb.	
				1 -	SPF 2.625"	Vert 32%	132 / 422	554 L	1.25D+1.5L	
				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.



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.







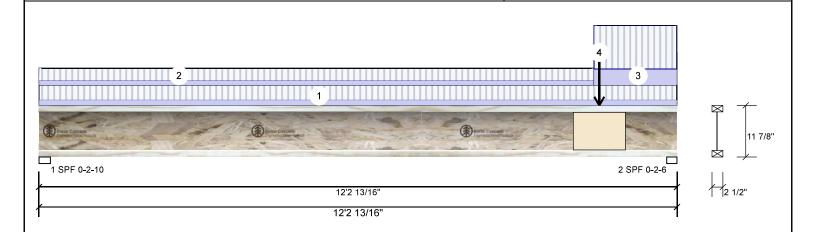
CORPORATION OF THE CITY OF OSTAWA F-GREENPARK-ZADORRA ESTATES-VILLA 3-2 Client: GREENPARK PERMIT PLANS Project Nov 04 2023 TATES

Input 🕢 🥎 🔑 Job Name:

Project #

11.875'the PACRED **AJS 140** F5-A

Level: Ground Floor



Member Inform	nation			Unfa	actored Rea	actions UNP	ATTERNED I	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	282	106	0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	567	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 Rea	ctions		
Dead:	15 PSF			Bea	aring Length	Dir. Cap.	. React D/L l b	Total Ld. Case	Ld. Comb.
				1 -	SPF 2.625"	Vert 32%	132 / 423	555 L	1.25D+1.5L
Analysis Posults				2 -	SPF 2.375"	Vert 66%	265 / 851	1116 L	1.25D+1.5L

Analysis Results

Analysis	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

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

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

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

 3. Damaged Jioists must not be used

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

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

This design is valid until 4/17/2026

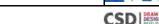
Manufacturer Info

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

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

Kott Inc.







CORPORATION OF THE CITY OF OSTAWA F-GREENPARK-ZADORRA ESTATES-VILLA 3-2 Client: GREENPARK PERMIT PLANS Project Nov 04 2023

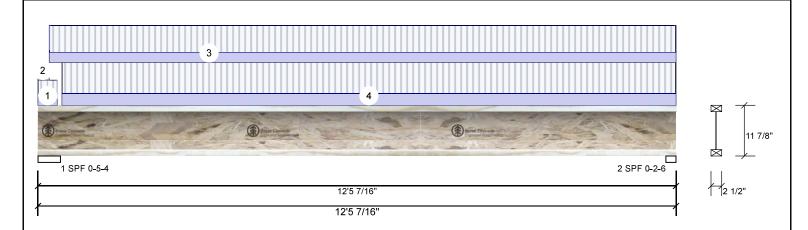
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Project #

AJS 140 F5-B

11 875'the DARRED

Level: Ground Floor



Member Inform	mation			Unfa	actored Rea	ctions l	JNP	ATTERNED II	b (Upli	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Li	ve	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	3	53	132		0	0
Moisture Condition:	: Dry	Building Code:	NBCC 2015	2	Vertical	3	51	131		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bear	rings and Fa	actored	Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	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.



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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-4-8	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	

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

Kott Inc.

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





AJS 140

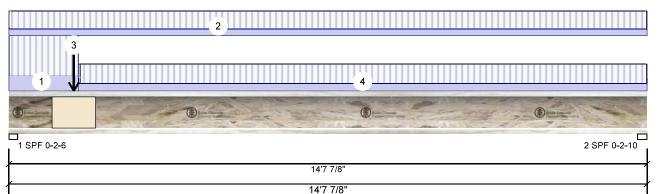
F6

11.875

Project #

Level: Ground Floor

7/18/2023



11 7/8"

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

40 PSF 15 PSF Application: Floor (Residential) Design Method: LSD

Building Code: NBCC 2015 OBC 2012(2020 Update)

Load Sharing: Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	716	269	0	0
2	Vertical	461	173	0	0

Bearings and Factored Reactions

Bearing	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

General Load

Floor Live:

Dead:

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.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-7-2	1-7-0	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 l b	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 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 populing.

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Manufacturer Info

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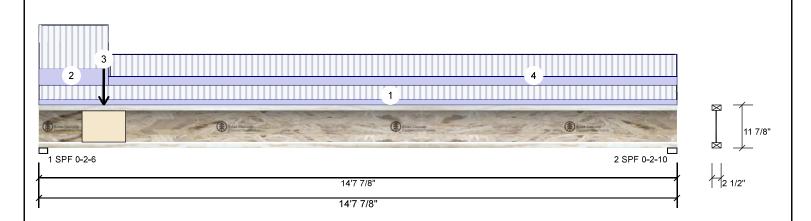
CORPORATION OF THE CITY OF OSHAWA ENGLINO 723-120-K-F-GREENPARK-ZADORRA ESTATES-VILLA 3-2 Client: GREENPARK PERMIT PLANS Project Nov 04 2023

7/18/2023 input by Job Name:

Project #

11.<mark>875''</mark> F6-A **AJS 140**

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 247 Vertical 659 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 417 156 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 2.375" Vert 77% 309 / 988 1297 L 1.25D+1.5L 2 - SPF 2.625" Vert 47% 195 / 625 820 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 lb	245 l b	0 l b	0 lb	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 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

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Kott Inc.



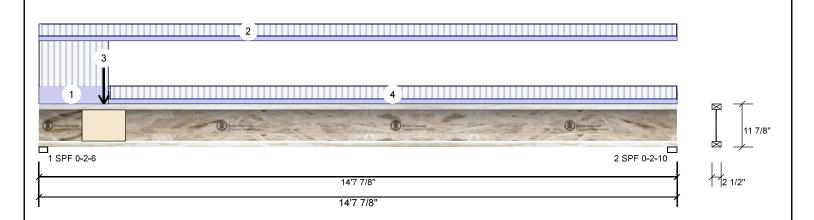
Input 🕢 🥎 🔑 Job Name:

Project #

11 875'the DAR QUI **AJS 140** F6-B

Level: Ground Floor

7/18/2023



Member Infor	mation	Unfactored Reactions UNPATTERNED lb (Uplift)									
Type:	Girder	Application:	Floor (Residential)	Brg	Direction		_ive	Dead	Ş	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical		633	237		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical		292	110		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 F	actored	l React	tions			
Dead:	15 PSF			Be	aring Length	Dir.	Cap. I	React D/L I b	Total L	_d. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	74%	296 / 949	1245 L	-	1.25D+1.5L
A I '- D I	_			2 -	SPF 2.625"	Vert	33%	137 / 438	575 L	=	1.25D+1.5L

Analysis Results

Analysis	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.



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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	0-5-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-5-14		Far Face	127 l b	340 lb	0 l b	0 l b	F2
4	Tie-In	1-7-2 to 14-7-14	0-5-7	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. Julist flanges must not be cut or drilled

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

 3. Damaged IJoists must not be used

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

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

This design is valid until 4/17/2026

Manufacturer Info

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Kott Inc.



