

Client:

Project:

Address:

Spencer Gay

Input by:

Job Name: 165 Cresthaven

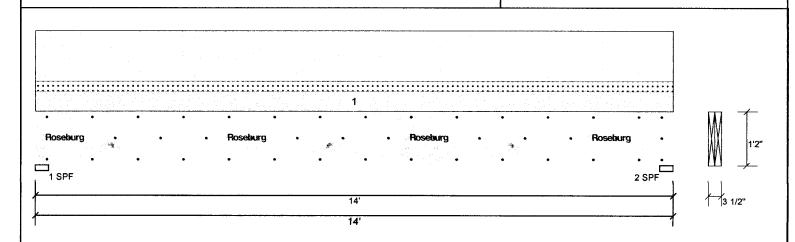
4/28/2020

Project #:

1.3E Rigidlam LVL **B3** 

2-Ply - PASSED 1.750" X 14.000"

.evel: Level



Member Information					Reactions UNPATTERNED lb (Uplift)					
Туре:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const	
Plies:	2	Design Method:	ASD	1	2596	1124	519	0	0	
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015	2	2596	1124	519	0	0	
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal									
Temperature:	Temp <= 100°F				·····					
				Bearing	S					
				Bearing	Length	Cap. Rea	ct D/L lb	Total Ld. Case	Ld. Comb.	
				1 - SPF	3.500"	71% 112	24 / 2596	3720 L	D+L	
				2 - SPF	3.500"	71% 112	24 / 2596	3720 L	D+L	

## **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12181 ft-lb	7'	21028 ft-ib	0.579 (58%)	D+L	L
Unbraced	12181 ft-lb	7'	17697 ft-lb	0.688 (69%)	D+L	L
Shear	2978 lb	1'4 3/4"	6533 lb	0.456 (46%)	D+L	L
LL Defl inch	0.270 (L/603)	7' 1/16"	0.339 (L/480)	0.800 (80%)	L	L
TL Defl inch	0.386 (L/420)	7: 1/16"	0.677 (L/240)	0.570 (57%)	D+L	L

### **Design Notes**

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x2) at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.

6 Bottom braced at bearings. 7 Lateral slenderness ratio based on full section width.				29 april 20						
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		7-5-0	Тор	20 PSF	50 PSF	10 PSF	0 PSF	0 PSF	
	Self Weight				12 PI F					

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

### Lumber

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
- 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

This design is valid until 11/15/2022

Roseburg Forest Products 4500 Riddle By-pass Rd Riddle, OR 97469 (541) 784-4005 www.roseburg.com APA: PR-L289, ICC-ES: ESR-1210 Page 1 of 2

C	lient:	Date: 4/28/2020	Page 2 of 2
EWP Studio _	roject: Spencer Gay	Input by:	
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Component Solutions ∩	Marious.	Project #:	
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B3 1.3E Rigidlam LVL	1.750" X 14.000" 2-Ply -	PASSED  Level: Level	
	•		
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		• • •	$\overline{\cdot}$ $\overline{\cdot}$ $\overline{\cdot}$
			. 7 1/2"
11			1'2"
11		• • •	· · <del>       </del> ///
4 605			SPF -
1 SPF		4	SPF
l <del>/</del>	14'		<del></del>
1	14'		1
}			
Multi-Ply Analysis			
Fasten all plies using 3 rows of 10d Bo	ox nails (.128x3") at 12" o.c Maximum	end distance not to exceed 6"	
Capacity 0.0 %	7		
Load 0.0 PLF			
Yield Limit per Foot 271.6 PLF	•		
Yield Limit per Fastener 90.5 lb.			
Yield Mode IV			
Edge Distance 1 1/2"			
Min. End Distance 3"			
Load Combination			
Duration Factor 1.00			
Notes chemicals	6. For flat roofs provide pro	per drainage to prevent Manufacture; info	
Calculated Structured Designs is responsible only of the Handling	& Installation ponding	Roseburg Forest Products	1
design criteria and loadings shown. It is the 2 Refer to	s must not be cut or drilled manufacturer's product information	4500 Riddle By-pass Rd	
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Dry service conditions, unless noted otherwise     Design ass     Provide to	beams must not be used sumes top edge is laterally restrained teral support at bearing points to avoid	APA: PR-L289, ICC-ES: ESR-1210	}
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