Client:

Project: Address: Date:

4/13/2017

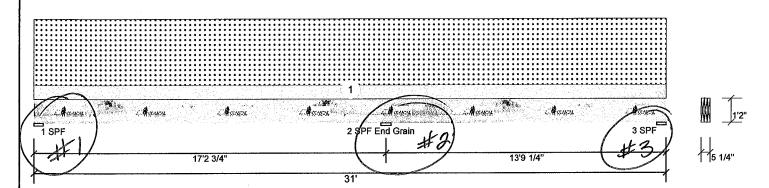
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Designer:

Job Name: Project #:

1.750" X 14.000" 3-Ply - PASSED 2.0E CP-LAM



Member Information				Reaction	Reactions lb (Uplift)						
Туре:	Girder	Application:	Roof	Brg	Live	Dead	Snow	Wind	Const		
Plies:	3	Slope:	0/12	1	0	1069	4392	0	0		
Moisture Condition	n: Dry	Design Method:	ASD	2	0	2892	11883	0	0		
Deflection LL:	360	Building Code:	IBC 2012	3	. 0	738	3031	0	0		
Deflection TL:	240	Load Sharing:	Yes	İ							
Importance:	Normal	Deck:	Not Checked								
Temperature:	Temp <= 100°F										
				Bearin	gs						
				Bearin	g Length	Cap. Rea	ct D/L lb	Total Ld. Cas	e Ld. Comb.		

1 - SPF 5.500"

2 - SPF 6.000"

End Grain 3 - SPF 5.500"

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-22950 ft-lb	17'2 3/4"	51379 ft-lb	0.447 (45%)	D+S	LL
Unbraced	-22950 ft-lb	17'2 3/4"	22968 ft-lb	0.999 (100%)	D+S	LL
Pos Moment	18393 ft-lb	7'3 7/16"	51379 ft-lb	0.358 (36%)	D+S	L_
Unbraced	18393 ft-lb	7'3 7/16"	18442 ft-lb	0.997 (100%)	D+S	L
Shear	6977 lb	16' 3/4"	16060 lb	0.434 (43%)	D+S	LL
LL Defl inch	0.275 (L/733)	8' 15/16"	0.561 (L/360)	0.490 (49%)	S	L_
TL Defl inch	0.333 (L/606)	8' 3/8"	0.842 (L/240)	0.400 (40%)	D+S	L

Bearings
# 1 Built Up 2x6 Post
# 2 Power Column 51/2x51/2
# 3 Built Up 2x6 Post
# 3 Built Up 2x6 Post

46% 1069 / 4575

55% 2892 / 11883

738 / 3491

34%

# **Design Notes**

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Compression edge bracing required at 6'7" o.c. or less.

5 Later	ai sienderness ratio based or									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		13-3-0	Тор	10 PSF	0 PSF	47 PSF	0 PSF	0 PSF	
	Self Weight				19 PLF					

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

#### Lumber

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

# chemicals

## Handling & Installation

- andling & 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
  Dosign 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

Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (888) 707-2285 www.pacificwoodlech.com APA: PR-L233, ICC-ES: ESR-2909 Hancock Lumber Company 158 Church Road, ME USA 04011

D+S

D+S

D+S

5644 L\_ 14775 LL

4229 \_L



