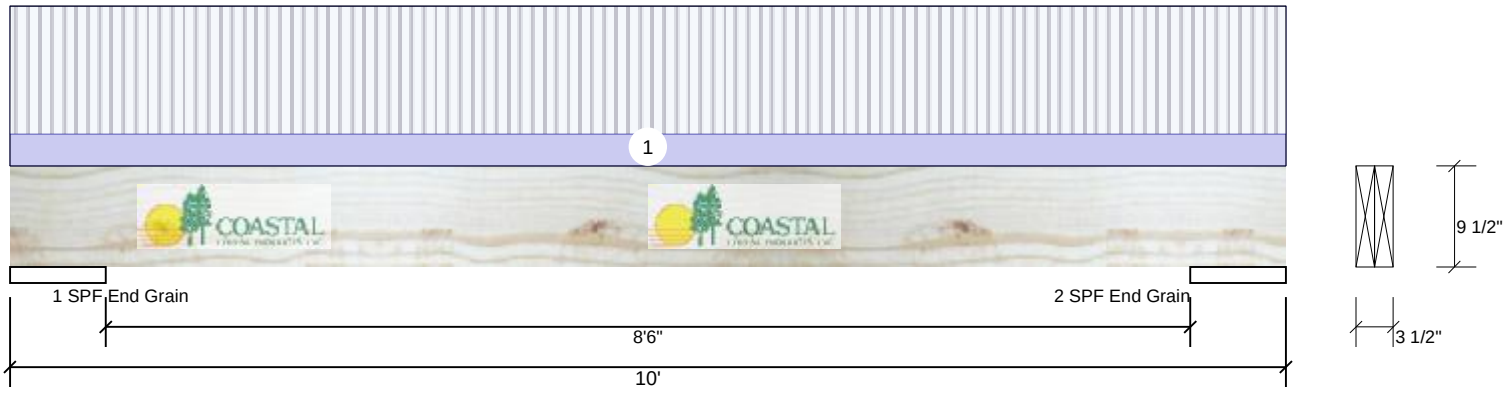
isDesign™

Client:
Project:
Address:

Date: 3/30/2017
Designer: Don Allard
Job Name:
Project #:

B1 2.0E CP-LAM 1.750" X 9.500" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	2117	572	0	0	0
2	2117	572	0	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	9.000"	10%	572 / 2117	2689	L	D+L
2 - SPF End Grain	9.000"	10%	572 / 2117	2689	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5001 ft-lb	5'	14251 ft-lb	0.351 (35%)	D+L	L
Unbraced	5001 ft-lb	5'	8337 ft-lb	0.600 (60%)	D+L	L
Shear	1894 lb	8'6 1/4"	6318 lb	0.300 (30%)	D+L	L
LL Defl inch	0.105 (L/982)	5'	0.216 (L/480)	0.490 (49%)	L	L
TL Defl inch	0.134 (L/773)	5'	0.431 (L/240)	0.310 (31%)	D+L	L

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 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		10-7-0	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Self Weight				9 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.

Lumber

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

Handling & Installation

1. LVL 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

Pacific Woodtech Corp
1850 Park Lane
Burlington, WA 98233
(888) 707-2285
www.pacificwoodtech.com
APA: PR-L233, ICC-ES: ESR-2909

Hancock Lumber
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