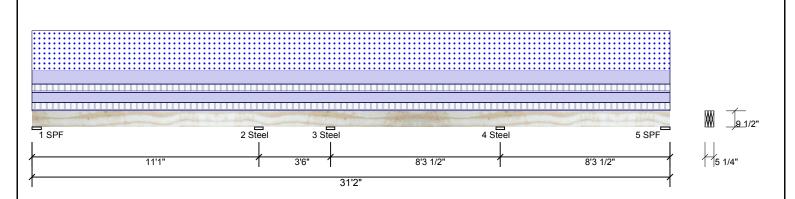
2.0E CP-LAM 1.75" X 9.5" Beam 1-B1 3-Ply 3/30/2012 3:52 PM Page 1 of 1



Bearings

Girder Application: Floor Type: Plies: 3 Design Method: ASD IBC/IRC Moisture Condition: Dry **Building Code:** 360 Load Sharing: Deflection LL: No 240 Not Checked Deflection TL: Deck: Importance: Normal Vibration: Not Checked Temperature: Temp <= 100°F

Reactions											
Brg	Live	Dead	Snow	Wind	Const						
1	4219	1708	1049	0	0						
2	11844	4189	2760	0	0						
3	7537	1066	1268	0	0						
4	9432	3828	2348	0	0						
5	3307	1177	773	0	0						

Analysis Length Analysis Actual Location Allowed Capacity Load Comb. Ld. Case 2.750" 1 - SPF 5.500" 97% Neg Moment -15455 ft-lb 10'8 7/8" 21093 ft-lb 0.733 (73%) D+L LL_L 2 - Steel 5.000" 5.000" Pos Moment 12981 ft-lb 4'4 9/16" 21093 ft-lb 0.615 (62%) D+L L_L 3 - Steel 5.000" 5.000" 39% Shear 7633 lb 10'3 1/2" 9476.3 lb 0.805 (81%) D+L LL_L 4 - Steel 5.000" 5.000" 59% LL Defl inch 0.219 (L/589) 5'2 5/8" 0.358 (L/360) 0.610 (61%) L L_L_ 5 - SPF 5.500" 2.250" 89% TL Defl inch 0.305 (L/423) 5'2 7/16" 0.537 (L/240) 0.570 (57%) D+L L_L

Bearing Input In Cap. React D/L lb Total Ld. Case Ld. Comb. 5927 L_L_ D+L 1708 / 4219 4189 / 11844 16033 LL_L D+L 1066 / 7537 8603 D+L LL D+L 3828 / 9432 13260 L_LL 1177 / 3307 4484 _L_L D+L

Design OK.

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 Tie-down connection required at bearing 3 for uplift 3868 lb.

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Const.	Comments
1	Uniform		12-0-0	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
3	Uniform		12-0-0	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
4	Uniform			Тор	80 PLF	0 PLF	240 PLF	0 PLF	0 PLF	
	Self Weight				12 95 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
 LVL not to be treated with fire retardant or

Handling & Installation

- LVI 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

For flat roofs provide proper drainage to prevent ponding

COASTAL FOREST PRODUCTS 34 Dunklee Rd Bow. NH Brit Chagnon



