Client:		Date:	5/18/2017
Project:		Designer:	Gabe LaBelle
Address:	668 Seashore Ave Peaks Island, Maine	Job Name:	668 seashore
		Project #:	

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 05/18/17

B2 2.0E CP-LAM 1.750" X 11.875" 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:	360	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	0	1061	4050	0	0
2	0	1061	4050	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	98%	1061 / 4050	5111	L	D+S
2 - SPF	3.500"	98%	1061 / 4050	5111	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	10358 ft-lb	4'6"	24489 ft-lb	0.423 (42%)	D+S	L
Unbraced	10358 ft-lb	4'6"	10463 ft-lb	0.990 (99%)	D+S	L
Shear	3727 lb	1'2 5/8"	9081 lb	0.410 (41%)	D+S	L
LL Defl inch	0.110 (L/929)	4'6"	0.285 (L/360)	0.390 (39%)	S	L
TL Defl inch	0.139 (L/736)	4'6"	0.427 (L/240)	0.330 (33%)	D+S	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		15-0-0	Top	15 PSF	0 PSF	60 PSF	0 PSF	0 PSF	
	Self Weight				11 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

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