COASTAL FOREST PRODUCTS, INC.		Client	Shipping
Project Name:	Job#:	Quantity 1 (3pcs.)	Description:

2.0E CP-LAM 1.750" X 9.250" 3-Ply - PASSED

9/30/2015 12:40 PM
Page 1 of 1
Designer: Gabe LaBe

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 12/03/15

Type:	Girder	Application:	Roof
Plies:	3	Slope:	10/12
Moisture Condition:	Dry	Design Method:	ASD
Deflection LL:	360	Building Code:	IBC/IRC 2012
Deflection TL:	240	Load Sharing:	Yes
Importance:	Normal	Deck:	Not Checked
Temperature:	Temp <= 100°F	Vibration:	Not Checked

Reactions

Brg	Live	Dead	Snow	Wind	Const
1	0	606	1560	0	0
2	0	606	1560	0	0

Bearings

Bearing	Input Length	In Analysis	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	1.500"	65%	606 / 1560	2166	L	D+S
2 - SPF	3.500"	1.500"	65%	606 / 1560	2166	L	D+S

Analysis	Actual	Location	Allowed	Capacity	Load Comb.	Ld. Case
Moment	6577 ft-lb	6'6"	24368 ft-lb	0.270 (27%)	D+S	L
Unbraced	6577 ft-lb	6'6"	23913 ft-lb	0.275 (28%)	D+S	L
Shear	1459 lb	1'	10611 lb	0.138 (14%)	D+S	L
LL Defl inch	0.327 (L/599)	6'6"	0.544 (L/360)	0.600 (60%)	S	L
TL Defl inch	0.456 (L/430)	6'6"	0.816 (L/240)	0.560 (56%)	D+S	L

Design OK.

Design Notes

1 Refer to manufacturer's literature for sloped bearing detail.
2 Attach with enough nails to prevent sliding between the joist and the sloped bearing wedge at each support.
3 Girders are designed to be supported on the bottom edge only.
4 Multiple plies must be fastened together as per manufacturer's details.
5 Top loads must be supported equally by all plies.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		4-0-0	Top	15 PSF	0 PSF	60 PSF	0 PSF	0 PSF	
	Self Weight				13 PLF					

STATE OF MAINE
PHILLIP E. ROBBINS
LICENSED
PROFESSIONAL ENGINEER

10-7-15

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

Job# PER151260

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