



Reviewed for Code Compliance  
Inspections Division  
Approved with Conditions

Date: 08/19/14

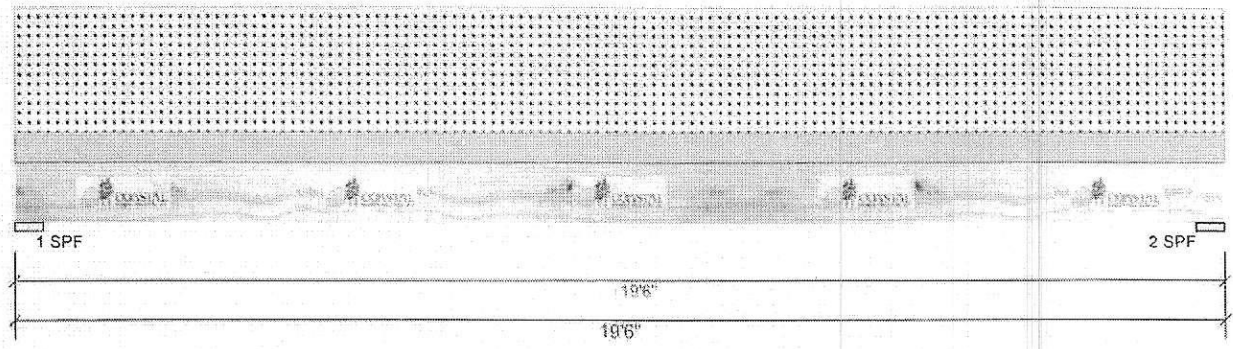


Client

Shipping

Project Name: **Front Beam 2.0E CP-LAM 1.750" X 11.875" 2-Ply - PASSED**  
 Job#:   
 Quantity 1 (2pcs.)  
 Description: Braley

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Designer: FPG



Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012 / IRC
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
Temperature:	Temp <= 100°F		

Reactions						
Brig	Live	Dead	Snow	Wind	Const	
1	0	390	1154	0	0	
2	0	390	1154	0	0	

Analysis	Actual	Location	Allowed	Capacity	Load Comb.	Ld. Case
Moment	7035 ft-lb	9'9"	24489 ft-lb	0.287 (29%)	D+S	L
Unbraced	7035 ft-lb	9'9"	18469 ft-lb	0.381 (38%)	D+S	L
Shear	1345 lb	1'4 5/8"	9081 lb	0.148 (15%)	D+S	L
LL Defl inch	0.339 (L/663)	9'9 1/16"	0.624 (L/360)	0.540 (54%)	S	L
TL Defl inch	0.454 (L/495)	9'9 1/16"	0.935 (L/240)	0.490 (49%)	D+S	L

Bearings							
Bearing	Input Length	In Analysis	Cap.	React D/L lb	Total Ld.	Case	Ld. Comb.
1 - SPF	5 500"	1 500"	69%	390 / 1154	1544	L	D+S
2 - SPF	5 500"	1 500"	69%	390 / 1154	1544	L	D+S

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.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Const	Comments
1	Uniform		2-0-0	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 details.

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

**Handling & Installation**  
 1 LVL beams must not be cut or drilled.  
 2 Refer to manufacturer's product information regarding installation requirements, nailing, fastening details, beam strength values and other accessories.  
 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 fasteners provide proper drainage to prevent panning.

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