



Client

Shipping

Project Name:

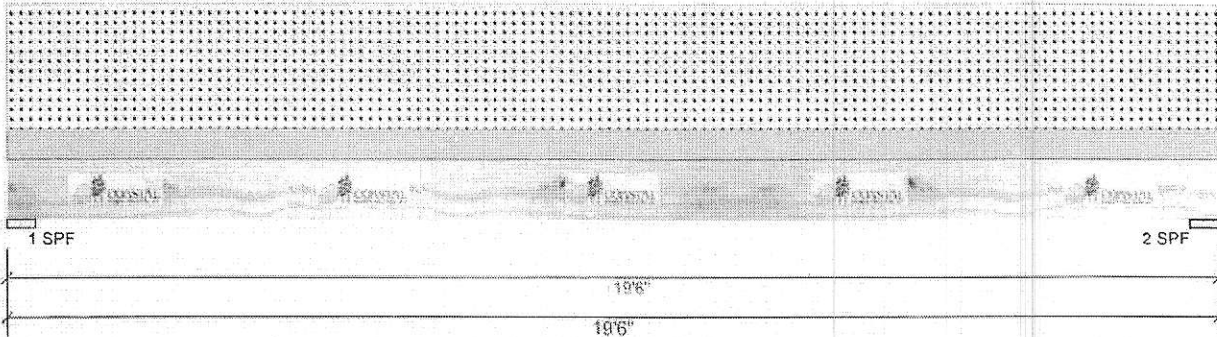
Job#:

Quantity 1 (2pcs.)

Description:

Front Beam 2.0E CP-LAM 1.750" X 11.875" 2-Ply - PASSED

8/7/2014 7:19 AM
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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					
Brg	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 the 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, including fastening details, beam strength values, and other applicable details.
3 Unrouted 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 ponding.

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