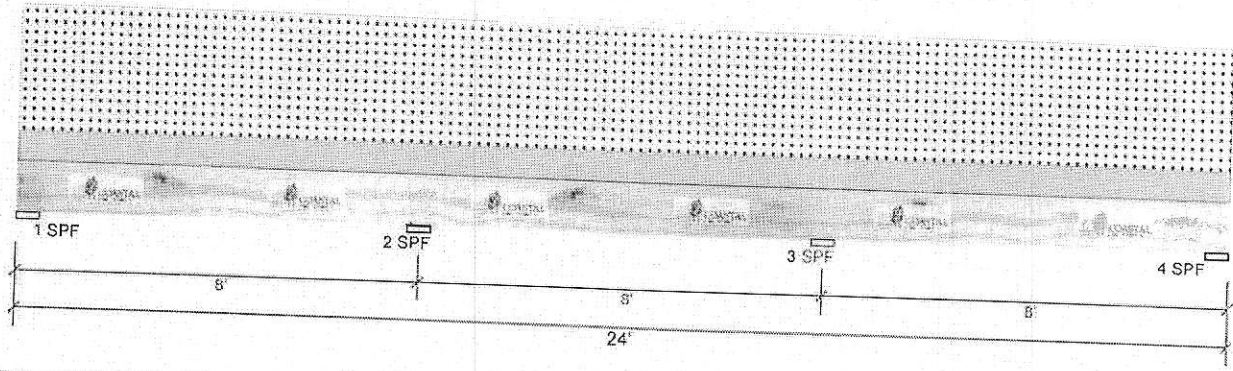




Client: _____
 Shipping: _____
 Project Name: _____
 Job#: _____
 Quantity: 1 (2pcs)
 Description: Braley

Side Beams 2.0E CP-LAM 1.750" X 11.875" 2-Ply - PASSED

8/7/2014 7:19 AM
 Page 1 of 1
 Designer: FPG



Type: Girder
 Plies: 2
 Moisture Condition: Dry
 Deflection LL: 360
 Deflection TL: 240
 Importance: Normal
 Temperature: Temp <= 100°F

Application: Floor
 Design Method: ASD
 Building Code: IBC 2012 / IRC
 Load Sharing: No
 Deck: Not Checked
 Vibration: Not Checked

Reactions					
Brq	Live	Dead	Snow	Wind	Const
1	0	480	1917	0	0
2	0	1351	5245	0	0
3	0	1351	5245	0	0
4	0	480	1917	0	0

Analysis	Actual	Location	Allowed	Capacity	Load Comb.	Ld. Case
Neg Moment	-4792 ft-lb	8'	24489 ft-lb	0.196 (20%)	D+S	LL_
Moment pos	3748 ft-lb	20'5 1/4"	24489 ft-lb	0.153 (15%)	D+S	LL_
Unbraced	3748 ft-lb	20'5 1/4"	23366 ft-lb	0.160 (16%)	D+S	LL_
Shear	2720 lb	7' 1/8"	9081 lb	0.300 (30%)	D+S	LL_
LL Defl inch	0.029 (L/3169)	3'11"	0.254 (L/360)	0.110 (11%)	S	LL_
TL Defl inch	0.035 (L/2612)	3'10 5/8"	0.381 (L/240)	0.090 (9%)	D+S	LL_

Bearings							
Bearing	Input Length	In Analysis	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	1.750"	92%	480 / 1917	2397	L_L	D+S
2 - SPF	5.500"	5.500"	81%	1351 / 5245	6596	LL_	D+S
3 - SPF	5.500"	5.500"	81%	1351 / 5245	6596	_LL	D+S
4 - SPF	5.500"	1.750"	92%	480 / 1917	2397	L_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 Self Weight		9-9-0	Top	15 PSF 11 PLF	0 PSF	60 PSF	0 PSF	0 PSF	

Notes
 Calculated Structural 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 is suitable for the intended application and to verify the dimensions and loads.

Lumber
 1. LVL beams must not be cut or drilled.
 2. Refer to manufacturer's product information regarding installation requirements, moisture resistance, 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.

Handling & Installation
 1. LVL beams must not be cut or drilled.
 2. Refer to manufacturer's product information regarding installation requirements, moisture resistance, 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.

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