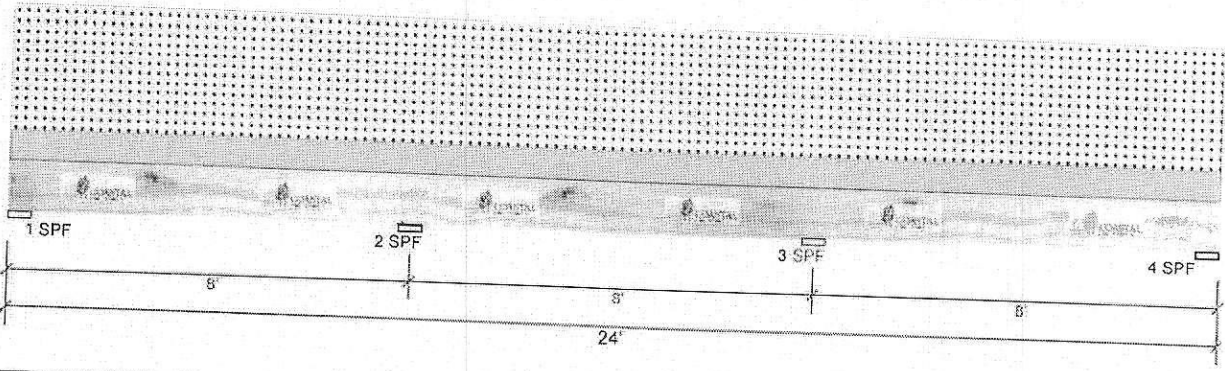




Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 08/19/14



Project Name		Client	Shipping
Job#:	Quantity 1 (2pcs)	Description: Braley	8/7/2014 7:19 AM Page 1 of 1 Designer: FPG
Side Beams 2.0E CP-LAM 1.750" X 11.875" 2-Ply - PASSED			



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		

Brg	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_

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		9-9-0	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/contractor to ensure the component is installed in accordance with the 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 and load capacity.
3. Unbraced 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 and load capacity.
3. Unbraced 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.

* For full span's provide proper drainage to prevent rotting.

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