



Client

Shipping

Project Name:

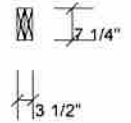
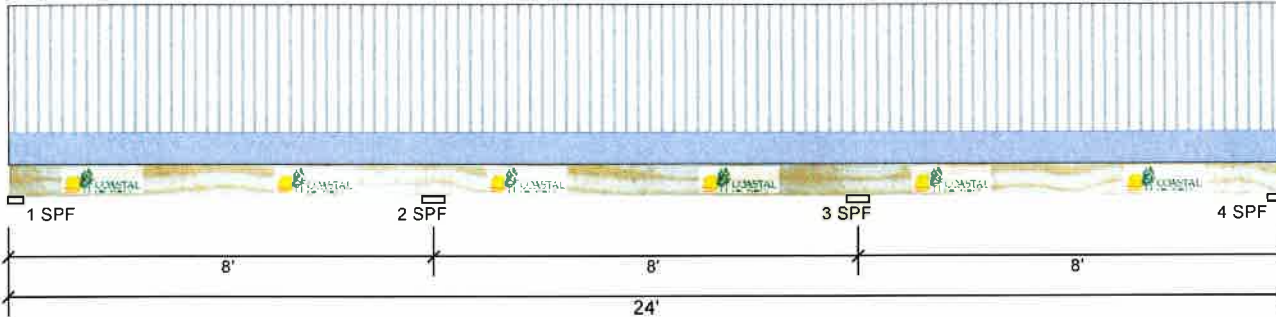
Job#:

Quantity 1 (2pcs.)

Description:

BEAM 2.0E CP-LAM 1.75" X 7.25" 2-Ply

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Designer: JLP



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/IRC
Load Sharing: No
Deck: Not Checked
Vibration: Not Checked

Reactions					
Brg	Live	Dead	Snow	Wind	Const
1	2248	516	0	0	0
2	6049	1448	0	0	0
3	6049	1448	0	0	0
4	2248	516	0	0	0

Analysis	Actual	Location	Allowed	Capacity	Load Comb.	Ld. Case
Neg Moment	-5667 ft-lb	8'	8590 ft-lb	0.660 (66%)	D+L	LL_
Pos Moment	4736 ft-lb	3'7 5/8"	8595 ft-lb	0.551 (55%)	D+L	LL_
Shear	3382 lb	7'4 3/4"	4821.3 lb	0.702 (70%)	D+L	LL_
LL Defl inch	0.183 (L/512)	3'11 3/8"	0.260 (L/360)	0.700 (70%)	L	LL_
TL Defl inch	0.215 (L/435)	3'10 13/16"	0.390 (L/240)	0.550 (55%)	D+L	LL_

Bearings							
Bearing	Input Length	In Analysis	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	2.000"	93%	516 / 2248	2764	L_L	D+L
2 - SPF	5.063"	5.063"	100%	1448 / 6049	7497	LL_	D+L
3 - SPF	5.063"	5.063"	100%	1448 / 6049	7497	_LL	D+L
4 - SPF	3.500"	2.000"	93%	516 / 2248	2764	L_L	D+L

Design OK.

Design Notes

- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all plies.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Const.	Comments
1	Uniform		16-0-0	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Self Weight				6.59 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 loads.

Lumber

- Dry service conditions, unless noted otherwise.
- LVL not to be treated with fire retardant or

corrosive chemicals

Handling & Installation

- LVL beams must not be cut or drilled.
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals.
- Damaged Beams must not be used.
- Design assumes top edge is laterally restrained.
- Provide lateral support at bearing points to avoid lateral displacement and rotation.

- For flat roofs provide proper drainage to prevent ponding.

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