



Client

Shipping 64 GERTRUDE

Project Name:

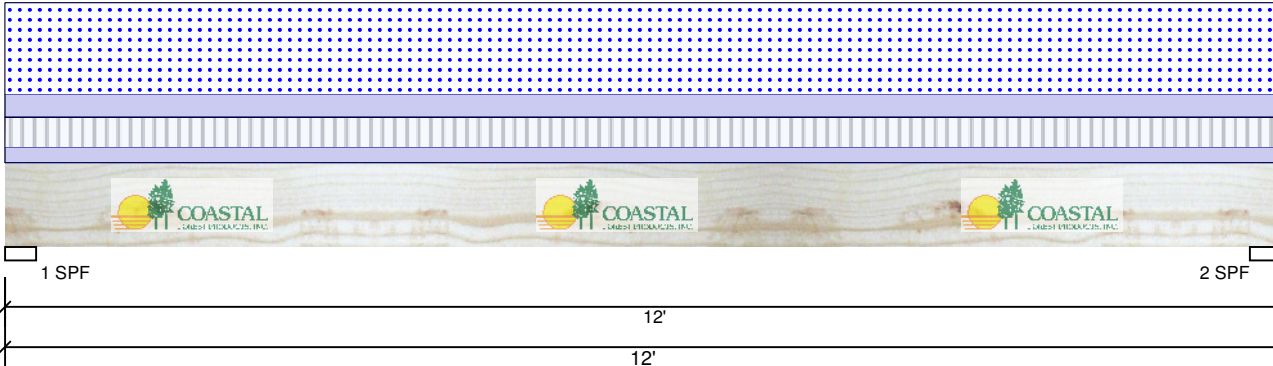
Job#:

Quantity 1 (3pcs.)

Description:

HEADER 2.0E CP-LAM 1.75" X 9.5" 3-Ply

4/9/2013 11:58 AM
Page 1 of 1
Designer: JLP



Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC
Deflection LL:	360	Load Sharing:	Yes
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked
Temperature:	Temp <= 100 °F		

Reactions					
Brg	Live	Dead	Snow	Wind	Const
1	867	1159	2602	0	0
2	867	1159	2602	0	0

Bearings						
Bearing	Input Length	In Analysis	Cap. React D/L lb	Total Ld. Case	Ld. Comb.	
1 - SPF	3.500"	1.750"	96%	1159 / 2602	3760 L	D+S
2 - SPF	3.500"	1.750"	96%	1159 / 2602	3760 L	D+S

Analysis	Actual	Location	Allowed	Capacity	Load Comb.	Ld. Case
Moment	10870 ft-lb	6'	25125 ft-lb	0.433 (43%)	D+S	L
Shear	3245 lb	1' 1/8"	10897.7 lb	0.298 (30%)	D+S	L
LL Defl inch	0.241 (L/575)	6'	0.385 (L/360)	0.630 (63%)	0.75(L+S)	L
TL Defl inch	0.349 (L/398)	6'	0.578 (L/240)	0.600 (60%)	D+0.75(L+S)	L

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		7-6-0	Top	10 PSF	20 PSF	0 PSF	0 PSF	0 PSF	
2	Uniform		7-6-0	Top	15 PSF	0 PSF	60 PSF	0 PSF	0 PSF	
	Self Weight				12.95 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

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

corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, 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

6. For flat roofs provide proper drainage to prevent ponding

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