



Client

Shipping BARTON
PORTLAND, ME

Project Name:

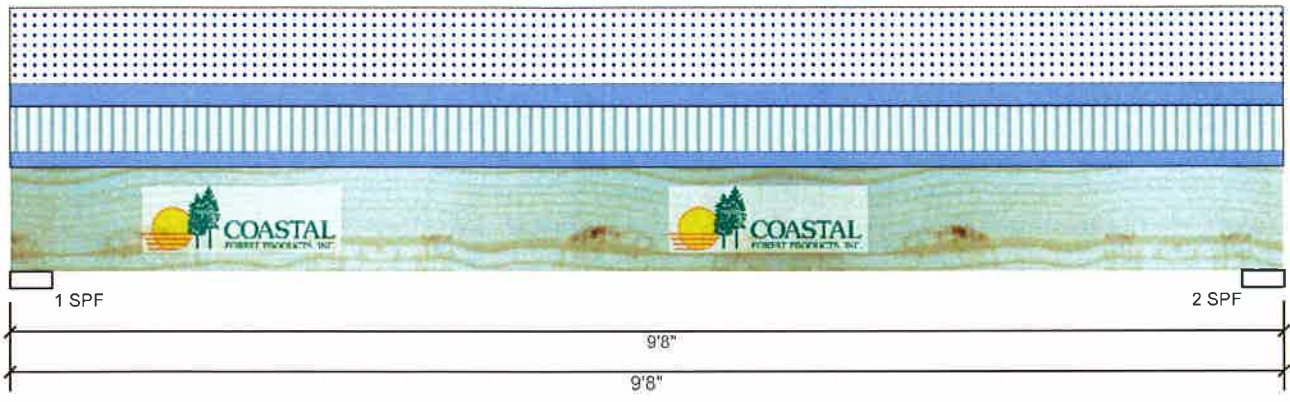
Job#:

Quantity 1 (2pcs.)

Description:

GARAGE DOOR HEADER 2.0E CP-LAM 1.750" X 9.500" 2-Ply - PASSED

6/24/2014 4:06 PM
Page 1 of 1
Designer: JLP



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	1970	1682	3283	0	0	
2	1970	1682	3283	0	0	

Analysis	Actual	Location	Allowed	Capacity	Load Comb.	Ld. Case
Moment	13096 ft-lb	4'10"	16388 ft-lb	0.799 (80%)	D+0.75(L+S)	L
Unbraced	13096 ft-lb	4'10"	15690 ft-lb	0.835 (83%)	D+0.75(L+S)	L
Shear	4654 lb	11 3/8"	7265 lb	0.641 (64%)	D+0.75(L+S)	L
LL Defl inch	0.289 (L/389)	4'10"	0.312 (L/360)	0.930 (93%)	0.75(L+S)	L
TL Defl inch	0.412 (L/272)	4'10"	0.467 (L/240)	0.880 (88%)	D+0.75(L+S)	L

Bearings						
Bearing	Input Length	In Analysis	Cap. React	D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	3.813"	3.813"	99%	1682 / 3939	5621 L	D+0.75(L+S)
2 - SPF	3.813"	3.813"	99%	1682 / 3939	5621 L	D+0.75(L+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		14-0-0	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
2	Uniform		14-0-0	Top	15 PSF	0 PSF	50 PSF	0 PSF	0 PSF	
	Self Weight				9 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

Coastal Forest Products
451 South River Rd, NH
USA
03110

As Independent as the designs we support



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Designer: JLP



Type: Girder
Plies: 3
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: Yes
Deck: Not Checked
Vibration: Not Checked

Reactions						
Brg	Live	Dead	Snow	Wind	Const	
1	1953	1687	3255	0	0	
2	1953	1687	3255	0	0	

Analysis	Actual	Location	Allowed	Capacity	Load Comb.	Ld. Case
Moment	12895 ft-lb	4'10"	25566 ft-lb	0.504 (50%)	D+0.75(L+S)	L
Unbraced	12895 ft-lb	4'10"	25222 ft-lb	0.511 (51%)	D+0.75(L+S)	L
Shear	4618 lb	8'8 1/16"	10898 lb	0.424 (42%)	D+0.75(L+S)	L
LL Defl inch	0.185 (L/600)	4'10"	0.309 (L/360)	0.600 (60%)	0.75(L+S)	L
TL Defl inch	0.265 (L/419)	4'10"	0.463 (L/240)	0.570 (57%)	D+0.75(L+S)	L

Bearings						
Bearing	Input Length	In Analysis	Cap. React	D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	3.813"	2.750"	91%	1687 / 3906	5593 L	D+0.75(L+S)
2 - SPF	3.813"	2.750"	91%	1687 / 3906	5593 L	D+0.75(L+S)

Design OK.
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2	Uniform		14-0-0	Top	15 PSF	0 PSF	50 PSF	0 PSF	0 PSF	
	Self Weight				13 PLF					

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