



Client Rufus Deering Lumber

Address Home Ave
Portland, ME

Project Name: Home Ave

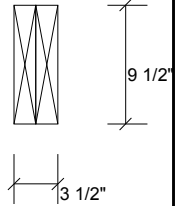
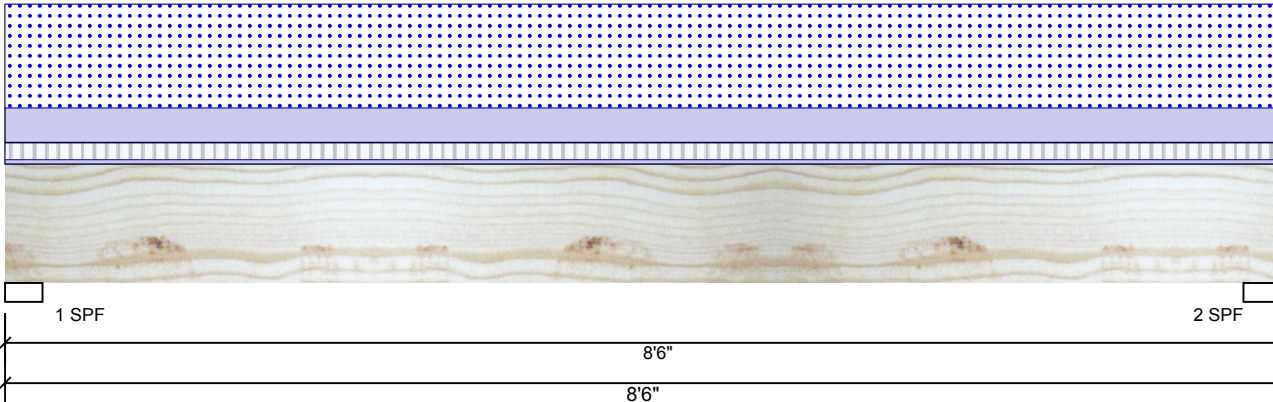
Job#:

Quantity 1 (2pcs.)

Description:
Header in 2nd Flr
Framing

Beam 2-B2 2.0E CP-LAM 1.75" X 9.5" 2-Ply

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Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/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	1965	854	983	0	0
2	1965	854	983	0	0

Analysis	Actual	Location	Allowed	Capacity	Load Comb.	Ld. Case
Moment	5770 ft-lb	4'1 1/8"	13843 ft-lb	0.417 (42%)	D+L	L
Shear	2274 lb	11 3/8"	6317.5 lb	0.360 (36%)	D+L	L
LL Defl inch	0.109 (L/900)	4'3 1/16"	0.273 (L/360)	0.400 (40%)	0.75(L+S)	L
TL Defl inch	0.151 (L/649)	4'3 1/16"	0.409 (L/240)	0.370 (37%)	D+0.75(L+S)	L

Bearings							
Bearing	Input Length	In Analysis	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.000"	2.250"	92%	854 / 2211	3065	L	D+0.75(L+S)
2 - SPF	3.000"	2.250"	92%	854 / 2211	3065	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		12-0-0	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Uniform			Top	80 PLF	0 PLF	240 PLF	0 PLF	0 PLF	
	Self Weight				8.64 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
34 Dunklee Rd
Bow, NH
Brit Chagnon

