



Client Rufus Deering Lumber

Address Home Ave  
Portland, ME

Project Name: Home Ave

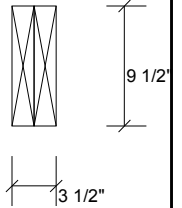
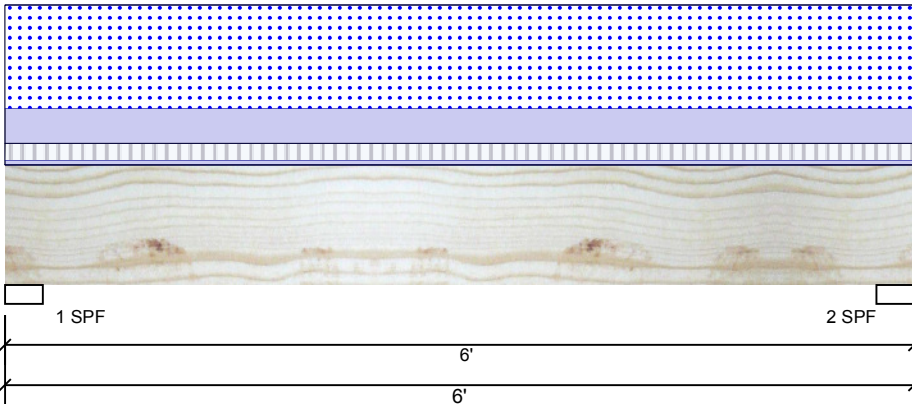
Job#:

Quantity 1 (2pcs.)

Description:  
Header in 2nd Flr  
Framing

**Beam 2-B1 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	1350	587	675	0	0
2	1350	587	675	0	0

Bearings							
Bearing	Input Length	In Analysis	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.000"	1.500"	94%	587 / 1519	2106	L	D+0.75(L+S)
2 - SPF	3.000"	1.500"	94%	587 / 1519	2106	L	D+0.75(L+S)

Analysis	Actual	Location	Allowed	Capacity	Load Comb.	Ld. Case
Moment	2724 ft-lb	2'9 3/4"	13985 ft-lb	0.195 (19%)	D+L	L
Shear	1392 lb	11 3/4"	6317.5 lb	0.220 (22%)	D+L	L
LL Defl inch	0.024 (L/2775)	3'	0.188 (L/360)	0.130 (13%)	0.75(L+S)	L
TL Defl inch	0.034 (L/2002)	3'	0.281 (L/240)	0.120 (12%)	D+0.75(L+S)	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		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**

- 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

COASTAL FOREST PRODUCTS  
34 Dunklee Rd  
Bow, NH  
Brit Chagnon

