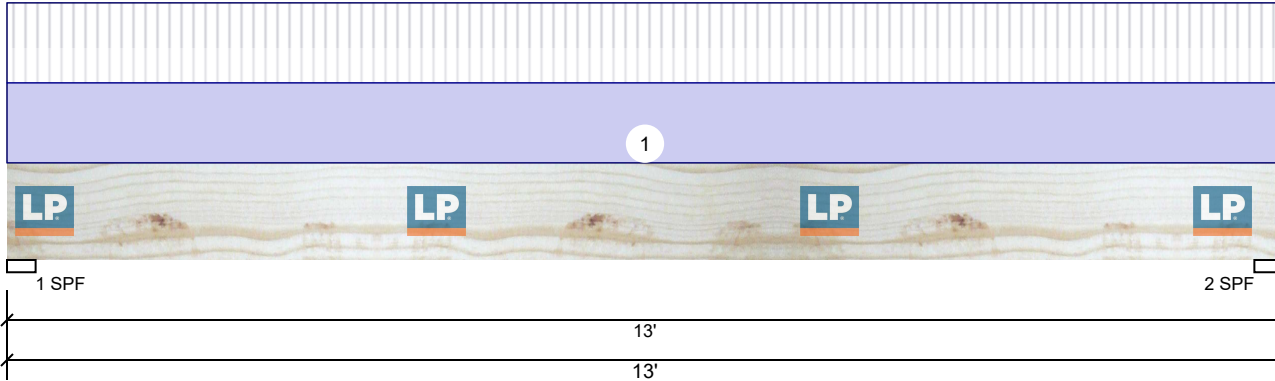


12' Garage Door Header LP-LVL 2900Fb-2.0E 1.750" X 11.875" 2-Ply - PASSED Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1560	1637	0	0	0
2	1560	1637	0	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	61%	1637 / 1560	3197	L	D+L
2 - SPF	3.500"	61%	1637 / 1560	3197	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9671 ft-lb	6'6"	19902 ft-lb	0.486 (49%)	D+L	L
Shear	2598 lb	11'9 3/8"	7897 lb	0.329 (33%)	D+L	L
LL Defl inch	0.150 (L/1004)	6'6"	0.314 (L/480)	0.480 (48%)	L	L
TL Defl inch	0.307 (L/490)	6'6"	0.627 (L/240)	0.490 (49%)	D+L	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.157", Long Term = 0.236"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously braced.
- 7 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	240 PLF	240 PLF	0 PLF	0 PLF	0 PLF	Roof Truss Load
	Self Weight				12 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.
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This design is valid until
10/31/2021