

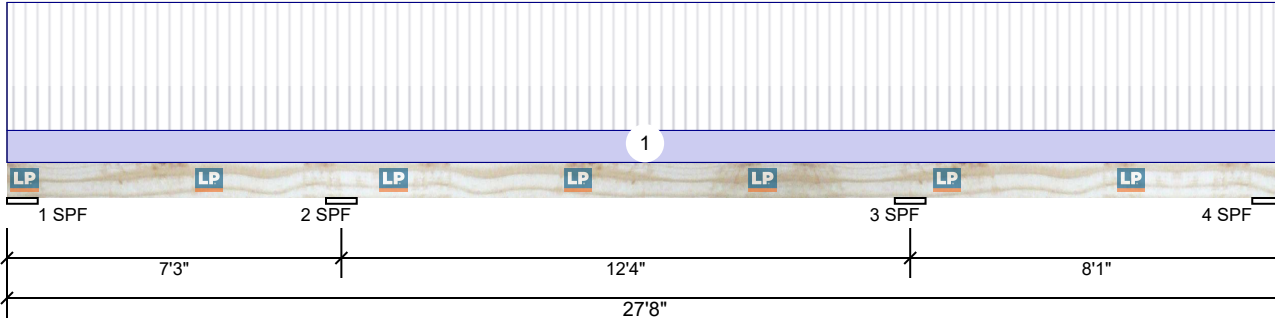


Client: SOUTH SCAN  
 Project:  
 Address: 110 MAPLE WOOD DR.  
 LOT 514  
 SANFORD N.C. 27332

Date: 7/31/2020  
 Input by: THORN COLLINS  
 Job Name: SOUTH SCAN (110 MAPLEWOOD)  
 Project #:

**DBM2 LP-LVL 2900Fb-2.0E 1.750" X 9.250" 2-Ply - PASSED**

Level: Level



**Member Information**

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

**Reactions UNPATTERNED lb (Uplift)**

Brg	Live	Dead	Snow	Wind	Const
1	592	170	0	0	0
2	2779	797	0	0	0
3	2877	825	0	0	0
4	724	208	0	0	0

**Bearings**

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	8.000"	9%	168 / 944	1112 (-39)	L_L	D+L(D+L)
2 - SPF	8.000"	31%	799 / 2901	3700	LL_	D+L
3 - SPF	8.000"	32%	827 / 2963	3789	LL_	D+L
4 - SPF	8.000"	10%	206 / 1018	1224	L_L	D+L

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-3786 ft-lb	19'7"	12416 ft-lb	0.305 (30%)	D+L	_LL
Pos Moment	3064 ft-lb	13'5 5/16"	12416 ft-lb	0.247 (25%)	D+L	_L_
Shear	1820 lb	18'9 3/4"	6151 lb	0.296 (30%)	D+L	_LL
LL Defl inch	0.139 (L/1063)	13'5 5/16"	0.308 (L/480)	0.450 (45%)	L	_L_
TL Defl inch	0.170 (L/869)	13'5 1/8"	0.617 (L/240)	0.280 (28%)	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 = 0.031", Long Term = 0.047"
- 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 Tie-down connection required at bearing 1 for uplift 39 lb (Combination D+L, Load Case \_L\_).
- 7 Top braced at bearings.
- 8 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	63 PLF	252 PLF	0 PLF	0 PLF	0 PLF	FLOOR LIVE LOAD AT 40 LIVE AND 10 DEAD WITH 6' 3" TRIB
	Self Weight				9 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