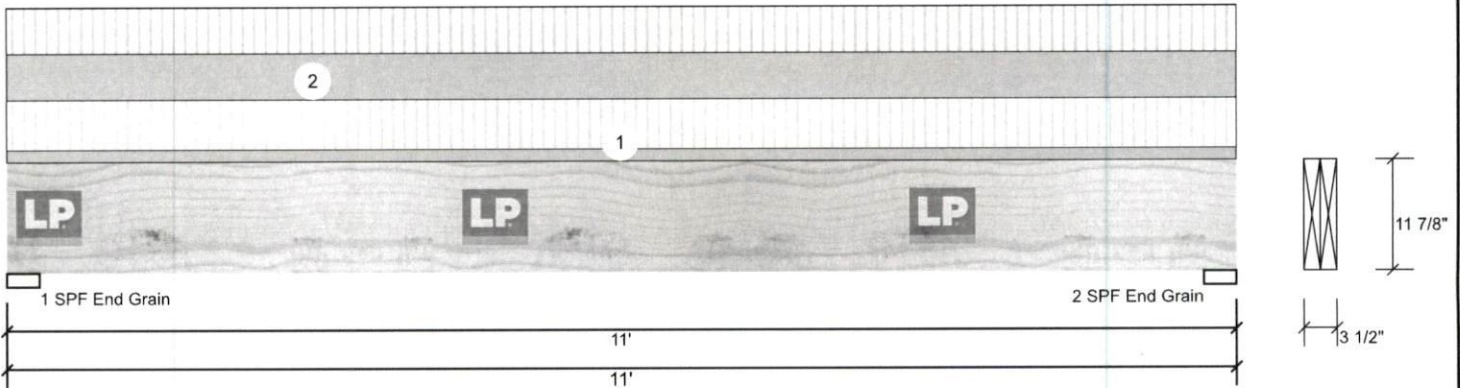




Client: Moss Homebuilders  
 Project:  
 Address:

Date: 9/29/2020  
 Input by:  
 Job Name: Fink Job  
 Project #:

10' Garage door Header No Girder 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	3410	2155	0	0	0
2	3410	2155	0	0	0

**Bearings**

Bearing	Length	Cap. %	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	61%	2155 / 3410	5565	L	D+L
2 - SPF End Grain	3.500"	61%	2155 / 3410	5565	L	D+L

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	14056 ft-lb	5'6"	19902 ft-lb	0.706 (71%)	D+L	L
Shear	4332 lb	9'9 3/8"	7897 lb	0.549 (55%)	D+L	L
LL Defl inch	0.200 (L/632)	5'6"	0.264 (L/480)	0.760 (76%)	L	L
TL Defl inch	0.327 (L/387)	5'6"	0.527 (L/240)	0.620 (62%)	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 = 0.127", Long Term = 0.190"
- 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	80 PLF	320 PLF	0 PLF	0 PLF	0 PLF	Floor Load
2	Uniform			Top	300 PLF	300 PLF	0 PLF	0 PLF	0 PLF	Roof Load
	Self Weight				12 PLF					

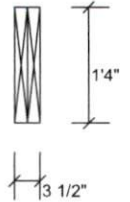
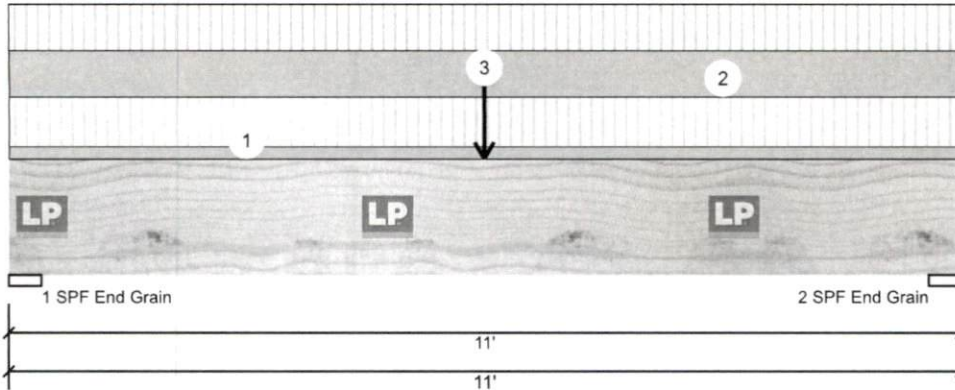
<p><b>Notes</b></p> <p>This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.</p> <p>Copyright 2019 All rights reserved by Louisiana Pacific Corp. 414 Union St Suite 2000, Nashville, TN 37219</p>	<p>Manufacturer Info</p> <p>Louisiana-Pacific Corp          414 Union Street, Suite 2000          Nashville, TN 37219          (888) 820-0325          www.lpcorp.com          APA: PR-L280, ICC-ES: ESR-2403,          LADBS: RR-25783, Florida: FL15228</p>	<p>BMC/Locust Lumber Company          312 E. Main Street, North Carolina          28127          704-888-4411</p>



Client: Moss Homebuilders  
 Project:  
 Address:

Date: 9/29/2020  
 Input by:  
 Job Name: Fink Job  
 Project #:

10' Garage Door Header LP-LVL 2900Fb-2.0E 1.750" X 16.000" 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	5248	4016	0	0	0
2	5248	4016	0	0	0

**Bearings**

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	78%	4016 / 5248	9264	L	D+L
2 - SPF End Grain	4.500"	78%	4016 / 5248	9264	L	D+L

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	32833 ft-lb	5'6"	34636 ft-lb	0.948 (95%)	D+L	L
Shear	7603 lb	1'7 5/8"	10640 lb	0.715 (71%)	D+L	L
LL Defl inch	0.167 (L/746)	5'6"	0.260 (L/480)	0.640 (64%)	L	L
TL Defl inch	0.304 (L/411)	5'6"	0.520 (L/240)	0.580 (58%)	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 = 0.136", Long Term = 0.205"
- 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	80 PLF	320 PLF	0 PLF	0 PLF	0 PLF	Floor Load
2	Uniform			Top	300 PLF	300 PLF	0 PLF	0 PLF	0 PLF	Roof Load
3	Point	5-6-0		Top	3676 lb	3676 lb	0 lb	0 lb	0 lb	Girder Truss
	Bearing Length	0-3-8								
	Self Weight				16 PLF					

**Notes**

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**Manufacturer Info**

Louisiana-Pacific Corp  
 414 Union Street, Suite 2000  
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 (888) 820-0325  
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 APA: PR-L280, ICC-ES: ESR-2403,  
 LADBS: RR-25783, Florida: FL15228

BMC/Locust Lumber Company  
 312 E. Main Street, North Carolina  
 28127  
 704-888-4411



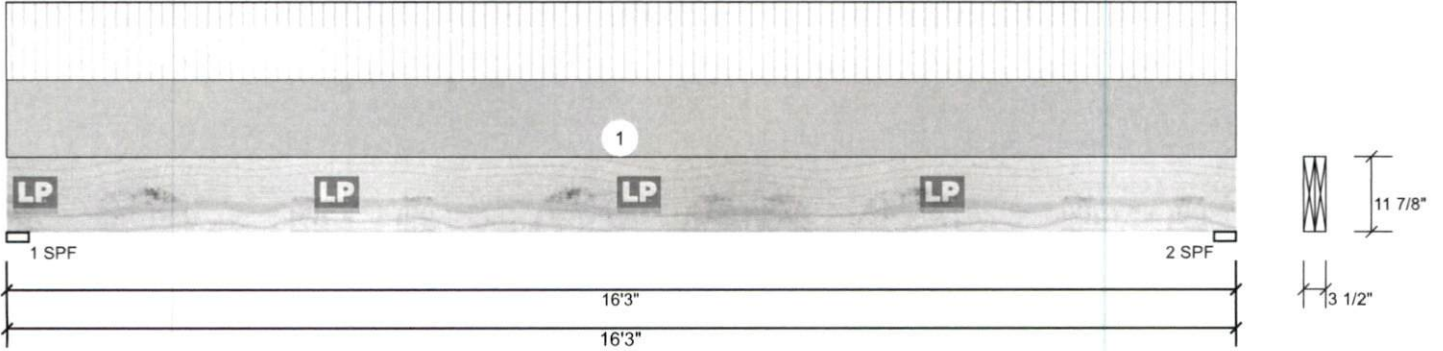
This design is valid until 10/31/2021



Client: Moss Homebuilders  
 Project:  
 Address:

Date: 9/29/2020  
 Input by:  
 Job Name: Fink Job  
 Project #:

**Back Porch Beam 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	1463	1559	0	0	0
2	1463	1559	0	0	0

**Bearings**

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	58%	1559 / 1463	3022	L	D+L
2 - SPF	3.500"	58%	1559 / 1463	3022	L	D+L

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11593 ft-lb	8'1 1/2"	19902 ft-lb	0.582 (58%)	D+L	L
Shear	2568 lb	1'2 5/8"	7897 lb	0.325 (33%)	D+L	L
LL Defl inch	0.273 (L/693)	8'1 9/16"	0.395 (L/480)	0.690 (69%)	L	L
TL Defl inch	0.565 (L/335)	8'1 9/16"	0.790 (L/240)	0.720 (72%)	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 = 0.291", Long Term = 0.437"
- 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	180 PLF	180 PLF	0 PLF	0 PLF	0 PLF	Roof 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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