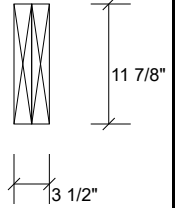
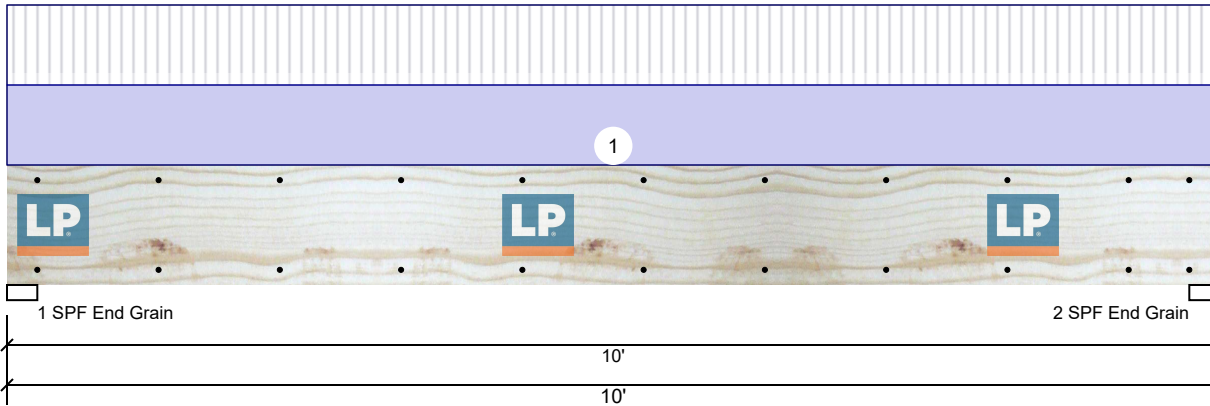


9' Garage Door Header LP-LVL 2900Fb-2.0E 1.750" X 11.875" 2-Ply - PASSED Level: Level



Member Information

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

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2375	2434	0	0	0
2	Vertical	2375	2434	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	61%	2434 / 2375	4809	L	D+L
2 - SPF End Grain	3.000"	Vert	61%	2434 / 2375	4809	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11139 ft-lb	5'	19902 ft-lb	0.560 (56%)	D+L	L
Shear	3629 lb	8'9 1/8"	7897 lb	0.460 (46%)	D+L	L
LL Defl inch	0.109 (L/1058)	5'	0.241 (L/480)	0.454 (45%)	L	L
TL Defl inch	0.221 (L/523)	5'	0.481 (L/240)	0.459 (46%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Dead Load Deflection: Instant = 0.112", Long Term = 0.168".
- 3 Fasten all plies using 2 rows of 12d Box nails (.128x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end 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	475 PLF	475 PLF	0 PLF	0 PLF	0 PLF	Attic Truss Reaction
	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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Manufacturer Info

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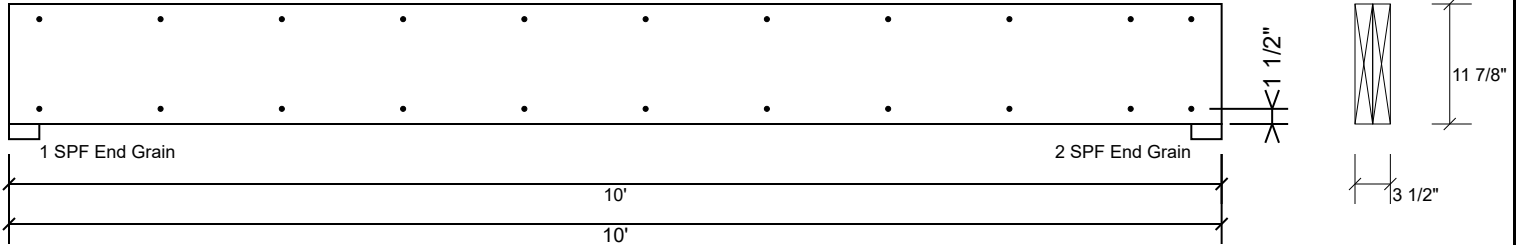
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312 E. Main Street, North Carolina
28127
704-888-4411



This design is valid until 11/3/2024

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

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 12d Box nails (.128x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	185.4 PLF
Yield Limit per Fastener	92.7 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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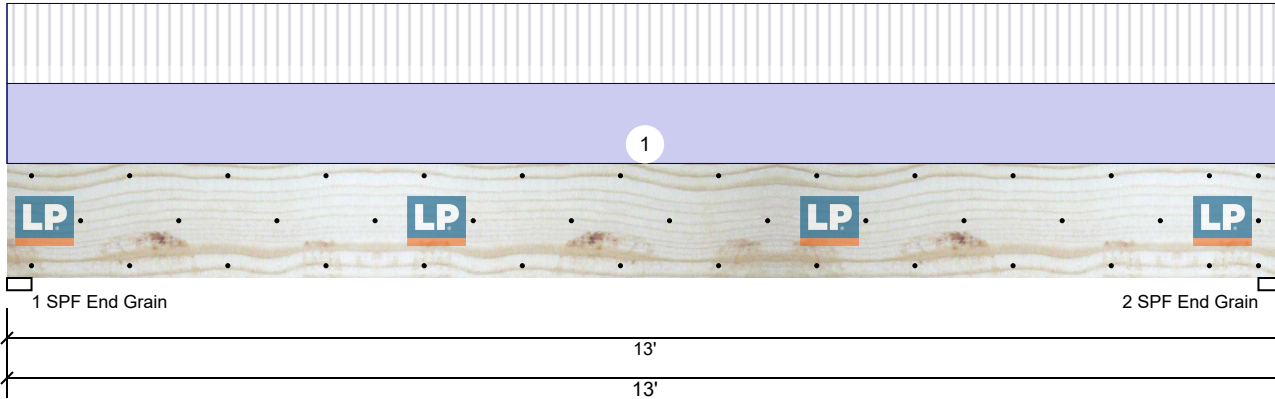
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This design is valid until 11/3/2024

12' Garage Door Header LP-LVL 2900Fb-2.0E 1.750" X 14.000" 2-Ply - PASSED Level: Level



Member Information

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

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	3088	3179	0	0	0
2	Vertical	3088	3179	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	80%	3179 / 3088	6266	L	D+L
2 - SPF End Grain	3.000"	Vert	80%	3179 / 3088	6266	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	19207 ft-lb	6'6"	27029 ft-lb	0.711 (71%)	D+L	L
Shear	4917 lb	1'5"	9310 lb	0.528 (53%)	D+L	L
LL Defl inch	0.192 (L/790)	6'6"	0.316 (L/480)	0.608 (61%)	L	L
TL Defl inch	0.389 (L/389)	6'6"	0.631 (L/240)	0.617 (62%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Dead Load Deflection: Instant = 0.198", Long Term = 0.296".
- 3 Fasten all plies using 3 rows of 12d Box nails (.128x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be continuously laterally braced.
- 8 Bottom must be laterally 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	475 PLF	475 PLF	0 PLF	0 PLF	0 PLF	Attic Truss Load
	Self Weight				14 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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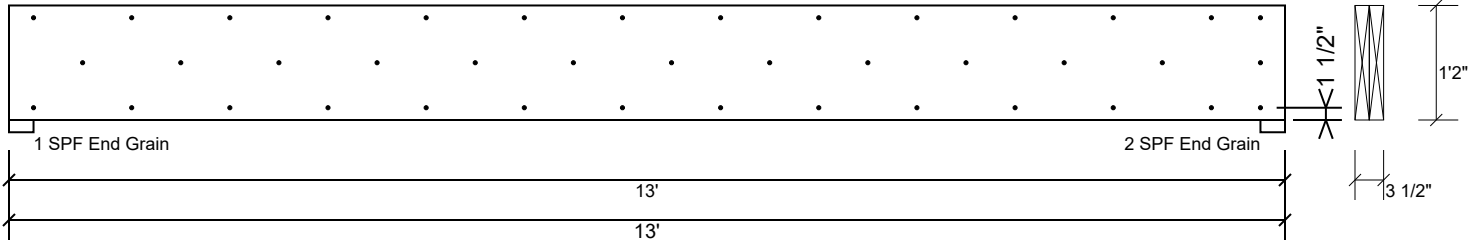
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This design is valid until 11/3/2024

12' Garage Door Header LP-LVL 2900Fb-2.0E 1.750" X 14.000" 2-Ply - PASSED Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 12d Box nails (.128x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	278.2 PLF
Yield Limit per Fastener	92.7 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

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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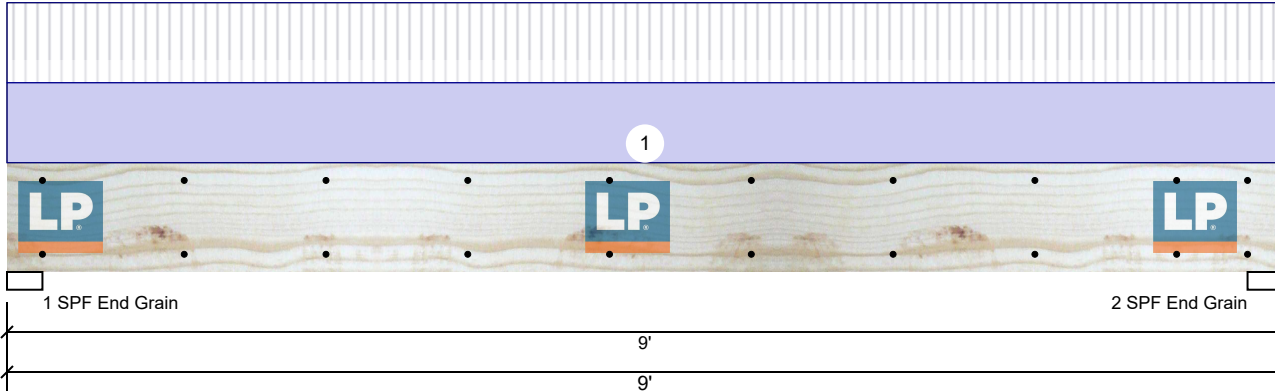
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This design is valid until 11/3/2024

Dining Room Window LP-LVL 2900Fb-2.0E 1.750" X 9.250" 2-Ply - PASSED Level: Level



Member Information

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

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2160	2202	0	0	0
2	Vertical	2160	2202	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	55%	2202 / 2160	4362	L	D+L
2 - SPF End Grain	3.000"	Vert	55%	2202 / 2160	4362	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9013 ft-lb	4'6"	12416 ft-lb	0.726 (73%)	D+L	L
Shear	3379 lb	1' 1/4"	6151 lb	0.549 (55%)	D+L	L
LL Defl inch	0.145 (L/712)	4'6"	0.216 (L/480)	0.674 (67%)	L	L
TL Defl inch	0.293 (L/353)	4'6"	0.431 (L/240)	0.681 (68%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Dead Load Deflection: Instant = 0.148", Long Term = 0.222".
- 3 Fasten all plies using 2 rows of 12d Box nails (.128x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end 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	480 PLF	480 PLF	0 PLF	0 PLF	0 PLF	Roof Truss Load
	Self Weight				9 PLF					

Notes

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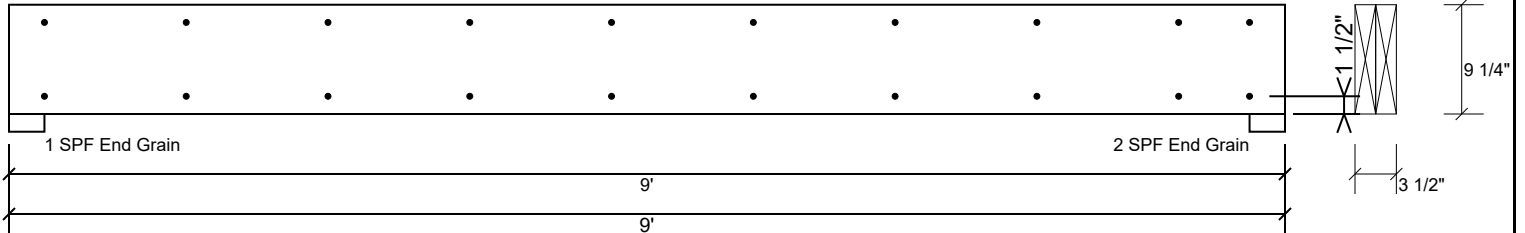
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Dining Room Window LP-LVL 2900Fb-2.0E 1.750" X 9.250" 2-Ply - PASSED Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 12d Box nails (.128x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	185.4 PLF
Yield Limit per Fastener	92.7 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

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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