Double 2 x 6 SPF #2

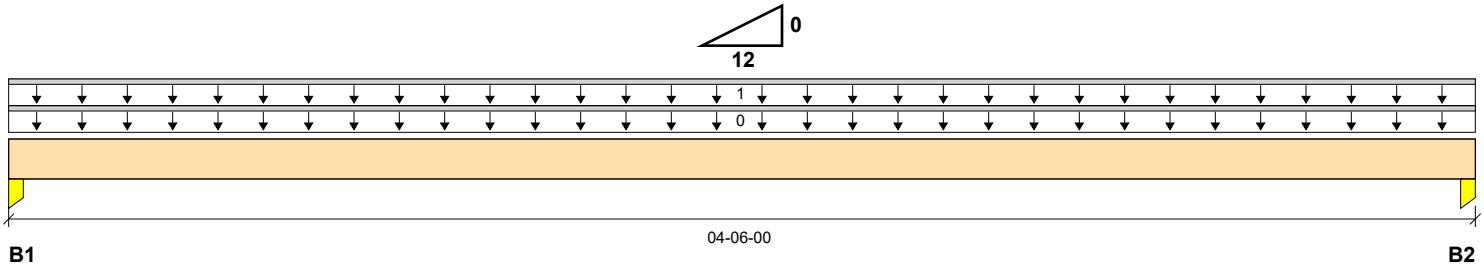
Transom Header (Roof Wall Header)

PASSED

BC CALC® Member Report | Dry | 1 span | No cant. | January 30, 2025 10:23:15

Build 8931

Job name:	Gaston II Plan	File name:	
Address:		Description:	
City, State, Zip:		Specifier:	
Customer:	Weaver Homes	Designer:	Ben Rickman
Code reports:	NLGA	Company:	Builders Firstsource



Total Horizontal Product Length = 04-06-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3"		828 / 0	819 / 0		
B2, 3"		828 / 0	819 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 100%	Dead 90%	Snow 115%	Wind 160%	Roof Live 125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	04-06-00	Top		4				00-00-00
1	A2 Roof Trusses	Unf. Lin. (lb/ft)	L	00-00-00	04-06-00	Top		364	364			n\a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	1556 ft-lbs	94.4%	115%	4	02-03-00
End Shear	1128 lbs	66.1%	115%	4	00-08-08
Total Load Deflection	L/999 (0.082")	n\a	n\a	4	02-03-00
Live Load Deflection	L/999 (0.041")	n\a	n\a	5	02-03-00
Max Defl.	0.082"	n\a	n\a	4	02-03-00
Span / Depth	9.0				

Bearing Supports

		Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column	3" x 3"	1647 lbs	25.2%	43.0%	Spruce-Pine-Fir
B2	Column	3" x 3"	1647 lbs	25.2%	43.0%	Spruce-Pine-Fir

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

Notes

Design meets Code minimum (L/180) Total load deflection criteria.

Design meets Code minimum (L/240) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design based on Dry Service Condition.

The analysis of solid sawn wood members is in accordance with the NDS and is limited to the output shown above. All other support and design for these products, including but not limited to notching, connections, installation, and engineer/architect certification is the responsibility of the project's design professional of record.

BC CALC® analysis is based on IBC 2015.

Calculations assume member is fully braced.

Disclosure