



Double 2 x 10 SP #2

GARAGE DOOR HEADER (Roof Wall Header)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

July 31, 2024 08:55:45

Build 8892

Job name: VARDAMAN-GARAGE DOOR HEADER

File name:

Address: 5011 RAY RD

Description:

City, State, Zip: SPRING LAKE, NC, 28390

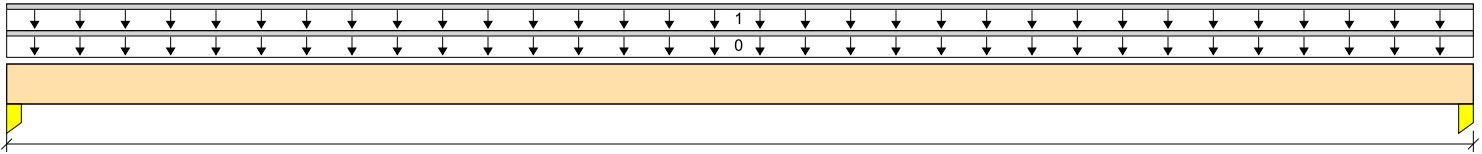
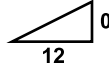
Specifier: JESSE MARSHALL

Customer: CAROLINA CONSTRUCTION

Designer: Vernon Schmidt

Code reports: SPIB

Company: Builders FirstSource



B1 10-09-00 B2

Total Horizontal Product Length = 10-09-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-1/2"		249 / 0	215 / 0		
B2, 3-1/2"		249 / 0	215 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	10-09-00	Top		6				00-00-00
1	TRUSS B01	Unf. Lin. (lb/ft)	L	00-00-00	10-09-00	Top		40	40			n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	1143 ft-lbs	34.9%	115%	4	05-04-08
End Shear	372 lbs	10.0%	115%	4	01-00-12
Total Load Deflection	L/999 (0.079")	n/a	n/a	4	05-04-08
Live Load Deflection	L/999 (0.036")	n/a	n/a	5	05-04-08
Max Defl.	0.079"	n/a	n/a	4	05-04-08
Span / Depth	13.4				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column 3-1/2" x 3"	464 lbs	5.4%	7.8%	Southern Pine
B2	Column 3-1/2" x 3"	464 lbs	5.4%	7.8%	Southern Pine

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 2009.

Calculations assume member is fully braced.

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,