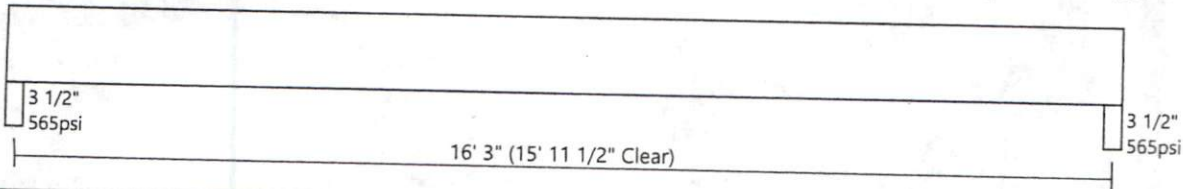


Project: Thornton Creek
 MemberID: Garage Door Header
 Usage: BEAM (Roof)
 Max Deflection: LL = L/240 TL = L/180

Slope: 0/12



#	Shape	Applied To:	Live+Dead Ld(T)		Live Ld(L)		LDF	Span#	Location*		Additional Info
			@Start	@End	@Start	@End			Starts	Ends	
1	Span Carried (psf)		45.0		30.0		115%	0	0'	16' 3"	18' s.c. (Slope: 9.0/12) - Garage Rafters
2	Span Carried (psf)		45.0		30.0		115%	0	0'	16' 3"	11' s.c. (Slope: 0.0/12) - House Rafters
	Uniform (plf)		12.94					0	0'	16' 3"	Self Weight

If *Applied To* is blank, all plies are assumed to be loaded equally.

*Dimensions measured from left end when span# is 0, otherwise, from left end of the specified span.

SUPPORTS (lbs)	1		2	
	Max Reaction	5681	Max Reaction	5681
Max 115%	3534		Max 115%	3534
Min Reaction	2147		Min Reaction	2147
Min 115%	3534		Min 115%	3534
DL Reaction	2147		DL Reaction	2147
Min Bearing	2.87"		Min Bearing	2.87"
Brg Stress (psi)	565		Brg Stress (psi)	565

[Based on bearing stress below]

DESIGN	Actual	Span	Location	Group	Allow	LDF	Ratio
V(lbs)	4763	1	0' 1 3/4"	31	10707	115%	0.44
M(ft-lbs)	23079	1	8' 1 1/2"	31	32936	115%	0.70
LtRn(lbs)	5681	0	0'	31	6921		0.82
RtRn(lbs)	5681	0	16' 3"	31	6921		0.82
LLDefl(")	0.43	1	8' 1 1/2"	31	0.81		L/457
TLDefl(")	0.69	1	8' 1 1/2"	31	1.08		L/285

USE: onCENTER LVL 2.0E 1 3/4" x 14" 2 Plies
 onCENTER® LVL by BlueLinx

Grade, Depth, Plies selected by user

Connect plies together with 3 rows of 0.131" x 3 1/2" nails @ 12" o.c. (one row 2" from top, one row mid-depth, one row 2" from bottom).

NOTES

1. Designed in accordance with National Design Specifications for Wood Construction and applicable approvals or research reports.
2. Provide full depth lateral support at all bearing locations. Allowable positive moment is calculated based on top edge with continuous lateral support.
3. Analysis valid for dry-use only (less than 16% moisture content).
4. Bearing length (Min Bearing) based on allowable stress of support material (Bearing Stress); support material capacity shall be verified (by others).
5. Roof Usage: Install with minimum 1/4:12 slope for adequate drainage.
6. When required by the building code, a registered design professional or building official should verify the input loads and product application.
7. Company, product or brand names referenced are trademarks or registered trademarks of their respective owners.
8. Load Combinations: 10= D, 20= D + 100%, 30= D + 115%, 40= D + 125%, 50= D + 160%, 60= D + 0.75(100%+115%), 70= D + 0.75(100%+125%), 80= D + 0.75(100%+115%+160%), 90= D + 0.75(100%+125%+160%), 100= 0.6D + 160%, 110= D + Commercial (100%), 120= D + 0.75(100%+160%)
9. Group = Load Combination Number + Load Pattern number. (For simple span, Load pattern = 1 for LL, 0 for DL).

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 Erwin, NC 28339