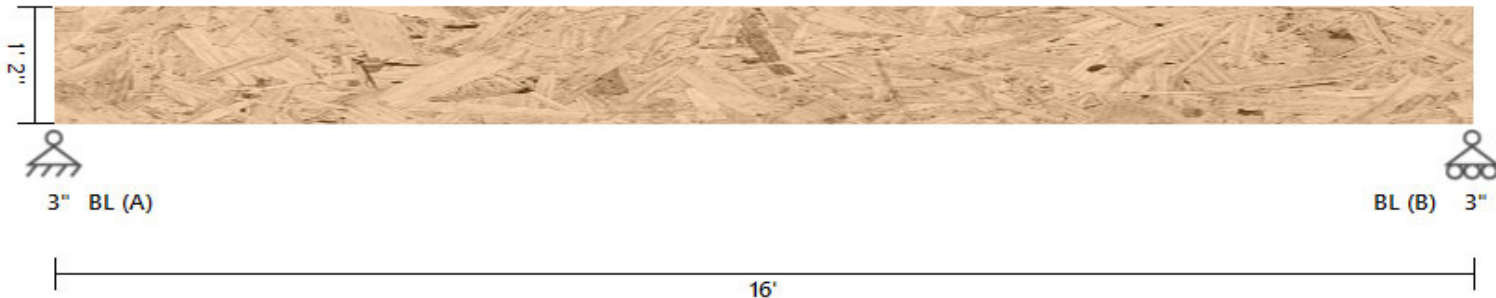


DATE:	5/31/2023	COMPANY:	Schumacher Homes
STRUCALC BUILD:	StruCalc Plus	DESIGNED BY:	Dan Fishtorn
CUSTOMER:	Capers DU700 023 0216	REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Capers DU700 023 0216
LEVEL:	Main Floor	LOADING:	ASD
MEMBER NAME:	Garage Door Header	CODE:	2021 International Building Code
MEMBER TYPE:	FLOOR BEAM	NDS:	2018 NDS
MATERIAL:	Structural Composite Lumber		
Louisiana Pacific	2.0E LVL	(2) 1.75 X 14	DRY

**Garage Door Header DIAGRAM**



**BEAM PROPERTIES**

Start (ft): 0 End (ft): 16 Member Slope: 0/12 Actual Length (ft): 16

Area	Ix	Iy	BSW	Lams	Cfn	Kcr
(in <sup>2</sup> )	(in <sup>4</sup> )	(in <sup>4</sup> )	(lbf/ft)			Creep Factor
49	800.33	12.51	13.95	2	9	1

**STRENGTH PROPERTIES**

	Fb (psi)	Ft (psi)	Fv (psi)	Fc (psi)	Fc⊥ (psi)	E (psi) x10 <sup>3</sup>	Emin (psi) x10 <sup>3</sup>
Base Values	2900	1800	285	3200	750	2000	1000
Adjusted Values	2900	1800	285	3200	750	2000	1000
C <sub>M</sub>	1	1	1	1	1	1	1
C <sub>T</sub>	1	1	1	1	1	1	1

Bending Adjustment Factors C<sub>V</sub> = 0.98 C<sub>r</sub> = 1 Volume factor Is applied on a load combination basis And Is Not reflected in the adjusted values

**BEAM DATA**

Span	Length (ft)	Unbraced Length (ft)		Beam End				
		Top	Bottom	Elev. Diff (ft)	CL(Top)	CL(Bottom)	CL(Left)	CL(Right)
1	16	0	16	0	1.00	0.87	1.00	1.00

**PASS-FAIL**

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Stress Y (psi)	<b>PASS (36.9%)</b>	179.7	285.0	0	D+L	1
Bending Stress Y (psi)	<b>PASS (5.1%)</b>	2704.4	2850.8	8.8	D+L	1
Deflection (in)	<b>PASS (8.1%)</b>	0.735 (=L/261)	0.800 (=L/240)	8.16	D+L	
Bearing Stress (psi)	<b>PASS (25.4%)</b>	559.2	750.0	0	D+L	1

**REACTIONS**

Units for V: lbf Units for M: lbf-ft

Y axis	DEAD	LIVE	TOTAL
A	2591	3280	5871
B	2377	2996	5373

Reaction Location



**LOAD LIST**

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lb/ft)	Uniform	373	373	0	11	Live	Y
Uniform (lb/ft)	Uniform	282	282	0	11	Dead	Y
Uniform (lb/ft)	Uniform	117	117	11	16	Live	Y
Uniform (lb/ft)	Uniform	89	89	11	16	Dead	Y
Point (lb)	Point	1588	-	11	-	Live	Y
Point (lb)	Point	1198	-	11	-	Dead	Y
Self Weight (lb/ft)	-	13.95	13.95	0	16	Dead	Y