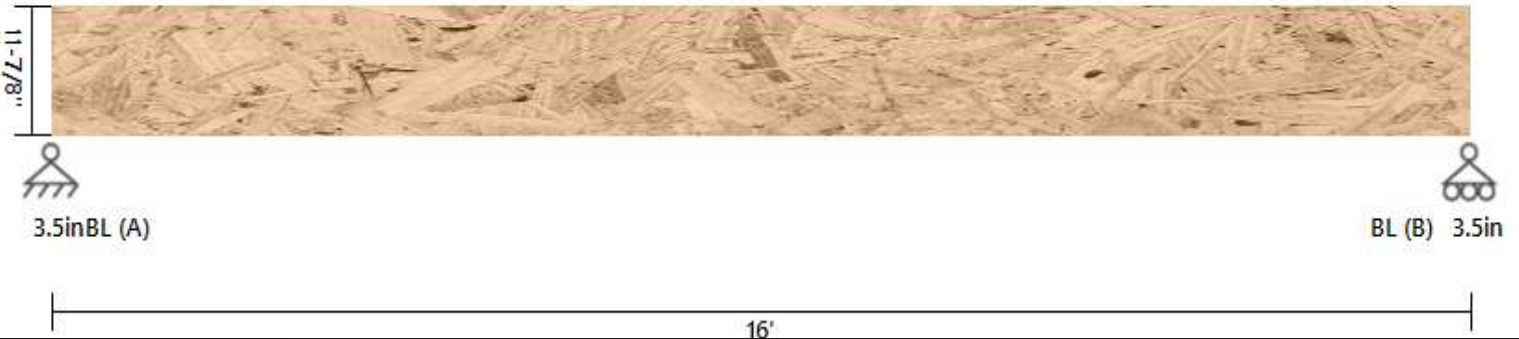


**PASS**

DATE:	10/25/2024	COMPANY:	Schumacher Homes
STRUCALC BUILD:	StruCalc Plus	DESIGNED BY:	Dan Fishtorn
CUSTOMER:	Brann br398	REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Brann br398
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 11.875	DRY

**Garage Door Header DIAGRAM**



**BEAM PROPERTIES**

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

Area	I <sub>x</sub>	I <sub>y</sub>	BSW	Lams	C <sub>fn</sub>	K <sub>cr</sub>
(in <sup>2</sup> )	(in <sup>4</sup> )	(in <sup>4</sup> )	(lbf/ft)			Creep Factor
41.56	488.41	10.61	11.83	2	9	1

**STRENGTH PROPERTIES**

	F <sub>b</sub> (psi)	F <sub>t</sub> (psi)	F <sub>v</sub> (psi)	F <sub>c</sub> (psi)	F <sub>c⊥</sub> (psi)	E (psi) x10 <sup>3</sup>	E <sub>min</sub> (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> = 1 C<sub>r</sub> = 1 Volume factor I<sub>s</sub> applied on a load combination basis And I<sub>s</sub> 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	0.88	1.00	1.00

**PASS-FAIL**

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Stress Y (psi)	<b>PASS (86.0%)</b>	39.8	285.0	0	D+L	1
Bending Stress Y (psi)	<b>PASS (77.8%)</b>	643.4	2903.4	8	D+L	1
Deflection Y (in)	<b>PASS (74.0%)</b>	0.208 (=L/923)	0.800 (=L/240)	8	D+L	1
Bearing Stress (psi)	<b>PASS (88.0%)</b>	90.0	750.0	0	D+L	1

**REACTIONS**

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

Y axis	DEAD	LIVE	TOTAL
A	527	576	1103
B	527	576	1103

Reaction Location



**LOAD LIST**

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lb/ft)	Uniform	72	72	0	16	Live	Y
Uniform (lb/ft)	Uniform	54	54	0	16	Dead	Y
Self Weight (lb/ft)	-	11.83	11.83	0	16	Dead	Y