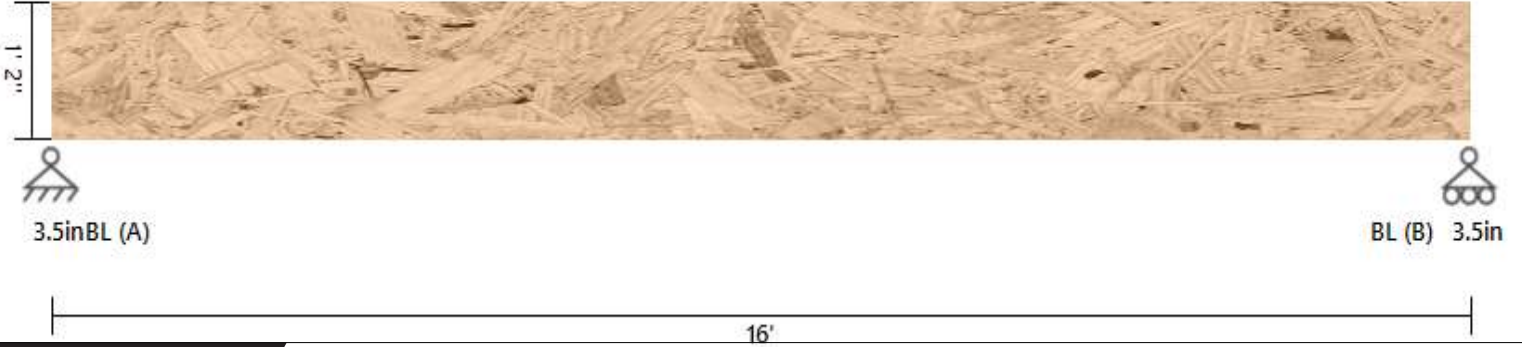


DATE:	5/8/2024	COMPANY:	Schumacher Homes
STRUCALC BUILD:	StruCalc Plus	DESIGNED BY:	Dan Fishorn
CUSTOMER:		REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Nikolaou DU700 023 0254
LEVEL:	Main Floor	LOADING:	ASD
MEMBER NAME:	Garage Door Header	CODE:	2021 International Building Code
MEMBER TYPE:	FLOOR BEAM	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	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
49	800.33	12.51	13.95	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> = 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 (88.0%)</b>	34.3	285.0	0	D+L	1
Bending Stress Y (psi)	<b>PASS (83.5%)</b>	470.0	2850.8	8	D+L	1
Deflection Y (in)	<b>PASS (83.9%)</b>	0.129 (=L/1488)	0.800 (=L/240)	8	D+L	1
Bearing Stress (psi)	<b>PASS (87.8%)</b>	91.4	750.0	0	D+L	1

**REACTIONS**

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

Y axis	DEAD	LIVE	TOTAL
A	544	576	1120
B	544	576	1120

Reaction Location

A

B

**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)	-	13.95	13.95	0	16	Dead	Y

**PASS**

DATE:	5/8/2024	COMPANY:	Schumacher Homes
STRUCALC BUILD:	StruCalc Plus	DESIGNED BY:	Dan Fishorn
CUSTOMER:		REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Nikolaou DU700 023 0254
LEVEL:	Main Floor	LOADING:	ASD
MEMBER NAME:	Covered Porch Beam	CODE:	2021 International Building Code
MEMBER TYPE:	FLOOR BEAM	NDS:	2018 NDS
MATERIAL:	Solid Sawn		
Southern Pine	No. 2	(2) 1.5 X 11.25	DRY

**Covered Porch Beam DIAGRAM****BEAM PROPERTIES**

Start (ft): 0 End (ft): 11.5 Member Slope: 0/12 Actual Length (ft): 11.5

Area	I <sub>x</sub>	I <sub>y</sub>	BSW	Lams	G	K <sub>cr</sub>
(in <sup>2</sup> )	(in <sup>4</sup> )	(in <sup>4</sup> )	(lbf/ft)			Creep Factor
33.75	355.96	25.31	8.43	2	0.55	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	750	450	175	1250	565	1400	510
Adjusted Values	750	450	175	1250	565	1400	510
C <sub>M</sub>	1	1	1	1	1	1	1
C <sub>T</sub>	1	1	1	1	1	1	1
C <sub>i</sub>	1	1	1	1	1	1	1
C <sub>F</sub>	1	1	1	1	1	1	1

Bending Adjustment Factors C<sub>fu</sub> = 1 C<sub>r</sub> = 1**BEAM DATA**

Span	Length (ft)	Unbraced Length (ft)		Beam End				
		Top	Bottom	Elev. Diff (ft)	CL(Top)	CL(Bottom)	CL(Left)	CL(Right)
1	11.5	0	11.5	0	1.00	0.98	1.00	1.00

**PASS-FAIL**

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Stress Y (psi)	<b>PASS (76.6%)</b>	41.0	175.0	0	D+L	1
Bending Stress Y (psi)	<b>PASS (32.9%)</b>	502.9	750.0	5.75	D+L	1
Deflection Y (in)	<b>PASS (78.0%)</b>	0.127 (=L/1087)	0.575 (=L/240)	5.75	D+L	1
Bearing Stress (psi)	<b>PASS (84.5%)</b>	87.9	565.0	0	D+L	1

**REACTIONS**

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

Y axis	DEAD	LIVE	TOTAL
A	422	500	922
B	422	500	922

Reaction Location

A

B

**LOAD LIST**

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lb/ft)	Uniform	87	87	0	11.5	Live	Y
Uniform (lb/ft)	Uniform	65	65	0	11.5	Dead	Y
Self Weight (lb/ft)	-	8.43	8.43	0	11.5	Dead	Y