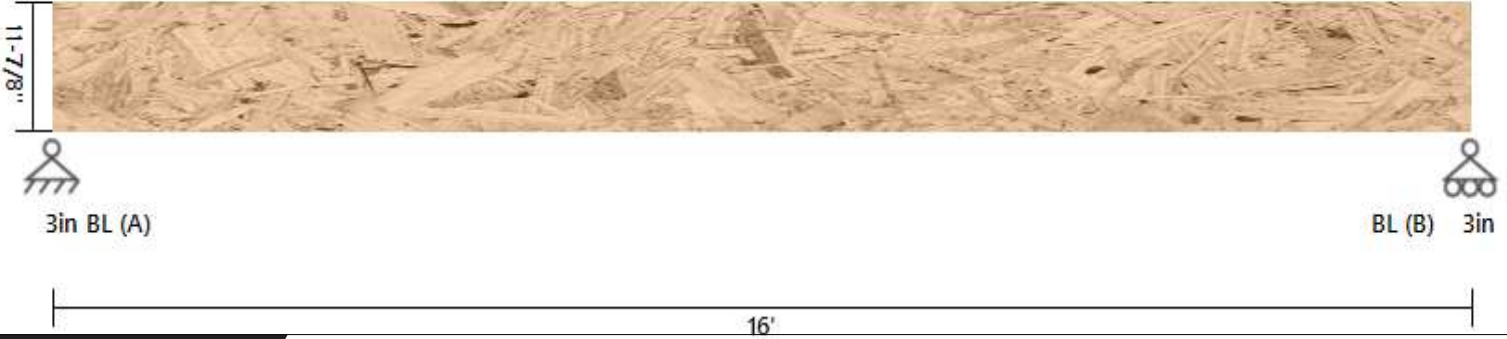


DATE:	2/15/2024	COMPANY:	--
STRUCALC BUILD:	StruCalc Plus	DESIGNED BY:	Jason Eaton
CUSTOMER:		REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	McLean du700 024 0301
LEVEL:	Main Floor	LOADING:	ASD
MEMBER NAME:	Garage Door Header	CODE:	2021 International Building Code
MEMBER TYPE:	FLOOR BEAM	NDS:	2018 NDS
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 _x	I _y	BSW	Lams	C _{fn}	K _{cr}
(in ²)	(in ⁴)	(in ⁴)	(lbf/ft)			Creep Factor
41.56	488.41	10.61	11.83	2	9	1

STRENGTH PROPERTIES

	F _b (psi)	F _t (psi)	F _v (psi)	F _c (psi)	F _{c⊥} (psi)	E (psi) x10 ³	E _{min} (psi) x10 ³
Base Values	2900	1800	285	3200	750	2000	1000
Adjusted Values	2900	1800	285	3200	750	2000	1000
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1
Bending Adjustment Factors	C _V = 1	C _r = 1	Volume factor I _s applied on a load combination basis And I _s 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	10	0	1.00	0.96	1.00	1.00

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Stress Y (psi)	PASS (85.1%)	42.4	285.0	0	D+L	1
Bending Stress Y (psi)	PASS (76.4%)	685.4	2903.4	8	D+L	1
Deflection Y (in)	PASS (72.3%)	0.222 (=L/865)	0.800 (=L/240)	8	D+L	1
Bearing Stress (psi)	PASS (85.1%)	111.9	750.0	0	D+L	1

REACTIONS

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

Y axis	DEAD	LIVE	TOTAL
A	559	616	1175
B	559	616	1175

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	77	77	0	16	Live	Y
Uniform (lb/ft)	Uniform	58	58	0	16	Dead	Y
Self Weight (lb/ft)	-	11.83	11.83	0	16	Dead	Y