

ROB TWOMBLY

BRAMBLEWOOD

O/S P.T. DECK BEAM

Date: 2/27/17

Selection (3) 2x 8 So. Pine #2 Lu = 0.0 Ft

Conditions NDS 2005  
Min Bearing Area R1= 2.4 in<sup>2</sup> R2= 2.4 in<sup>2</sup> (1.5) DL Defl= 0.05 in

Data

Beam Span	7.5 ft	Reaction 1 LL	1013 #	Reaction 2 LL	1013 #
Beam Wt per ft	7.93 #	Reaction 1 TL	1380 #	Reaction 2 TL	1380 #
Bm Wt Included	59 #	Maximum V	1380 #		
Max Moment	2587 '#	Max V (Reduced)	1157 #		
TL Max Defl	L / 240	TL Actual Defl	L / 694		
LL Max Defl	L / 360	LL Actual Defl	L / >1000		

Attributes

	Section (in <sup>3</sup> )	Shear (in <sup>2</sup> )	TL Defl (in)	LL Defl
Actual	39.42	32.63	0.13	0.08
Critical	25.87	9.92	0.38	0.25
Status	OK	OK	OK	OK
Ratio	66%	30%	35%	34%

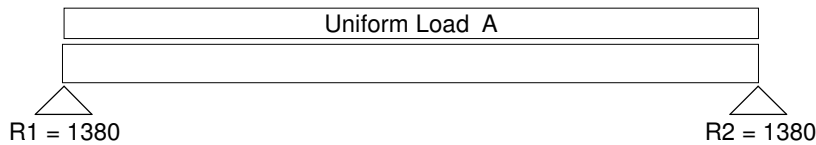
Values

	Fb (psi)	Fv (psi)	E (psi x mil)	Fc <sub>⊥</sub> (psi)
Reference Values	975	175	1.6	565
Adjusted Values	1200	175	1.6	565

Adjustments

CF Size Factor	1.231			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet Use	1.00	1.00	1.00	1.00
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads Uniform LL: 270 Uniform TL: 360 = A



Uniform and partial uniform loads are lbs per lineal ft.