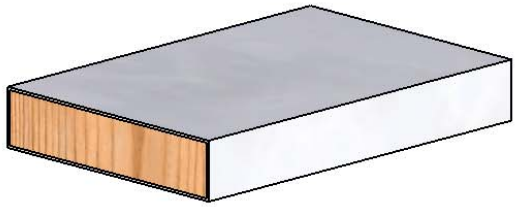
Crane Materials International
www.cmiengineer.com (866) 867-3762

TG 2 x 8 Wale



Drawn: JAB **Date:** 06/18/09

Moment of Inertia (I) (weak axis)	2.0 in^4	83 cm^4
Core Material	No. 2 Southern Pine	
Surface Material	UV Resistant Polymer	
Recommended Accessories	90° Corner Brace, AW Rod Kits, TG End Cap, TG Wrap, TG Sealant	
Available Lengths	16 ft, 20 ft	
Standard Colors	Clay, Grey, Brown	

Polymer Properties

Resin Properties	ASTM Test Method	Typical Values
Density (lbs/ft^3)	D-4883	59.3
Tensile Strength at Yield (psi)	D-638	3,900
Tensile Strength at Break (psi)	D-638	2,200
Elongation at Yield (%)	D-638	9
Elongation at Break (%)	D-638	600
Tensile Modulus (psi)	D-638	600
Flexural Modulus (psi)	D-790	260,000
Tensile Impact ($ft\text{-}lbs/in^2$)	D-1822	175,000
Coefficient of Linear Thermal Expansion (in/in/°F)	D-4696	$7x10^{-5}$

SPIB Design Values for No. 2 Mixed Southern Pine

Extreme Fiber in Bending (psi)	Tension Parallel to Grain (psi)	Horizontal Shear (psi)	Compression Perpendicular to Grain (psi)	Compression Parallel to Grain (psi)	Modulus of Elasticity (psi)
1050	625	175	565	1450	1,400,000

Uniform Load Table

Span (L) (ft)	Max Allowable Uniform Load (Bending Moment) (lbs/ft)	Deflection Allowable Uniform Load (lbs/ft)			
		L/90	L/180	L/240	L/360
4	146	-----	130	97	65
5	93	-----	66	50	33
6	65	-----	38	29	19
7	48	-----	24	18	12
8	36	32	16	12	8
9	29	23	11	9	6
10	23	17	8	6	4
11	19	12	6	5	3
12	16	10	5	4	2
13	14	8	4	3	2
14	12	6	3	2	2
15	10	5	2	2	1