

PHYSICAL PROPERTIES

Property Data

PROPERTY	ASTM	RESULTS	RESULTS (Metric)
Flame Spread	E84	75	75
Smoke Development	E84	200	200
Burning Brand	E108-modified	Class B*	Class B*
Flash Point	D92	750°F	398°C
Fire Point	D92	729°F	387°C
Coefficient of Thermal Expansion	D696		
width		3.41×10 ⁻⁵	3.41×10 ⁻⁵
length		1.6×10 ⁻⁵	1.6×10 ⁻⁵
Modulus of Elasticity (psi)	AC-109, ASTM D 198		
Floorizon Plank		470000	3240MPa
2x6 Plank		430000	2964MPa
DockSider Plank	ASTM D 6109	411906	2839MPa
Earthwood, TwinFinish, 5/4 Plank	ASTM D 6109	438863	3025MPa
Modulus of Rupture (psi)	AC-109, ASTM D 198		
Floorizon Plank		3300	22.75MPa
2x6 Plank		2700	18.61MPa
DockSider Plank	ASTM D 6109	3067	21.14MPa
Earthwood, TwinFinish, 5/4 Planks	ASTM D 6109	3042	20.97MPa
Tensile Modulus (psi)	D638		
length		879000	6060MPa
width		378000	2606MPa
Tensile Peak Stress (psi)	D638		
length		1810	12.47MPa
width		648	4.46MPa
Compressive Strength (psi)	D695		
length		3031	20.89MPa
width		2899	19.98MPa
Poisson Ratio	D638		
length		0.394	0.394
width		0.1918	0.1918
HDT 264 (psi)	D648	206°F	1.82MPa / 96.7°C
Vicat 1 kg	D1525	274°F	134.4°C
Shore D Hardness	D2240	D85	D85
Specific Gravity gm/cc	D792	1.2	1.2
Fungus Resistance	D1413	rating = no decay	
(brown and white rot fungi)		0.394	0.394
Coefficient of Friction	ASTM D 2047		
dry		0.55	0.55
wet		0.88	0.88
Screw Withdraw #8 wood screw	D1761	787 lbs/in	1377.25n/m
Water Absorption	D1037		
%vol		<1.35%	<1.35%
%mass		<1.29%	<1.29%
* no worse than wood			