

<b>TimberTech Material Properties</b>			
<b>PROPERTY</b>	<b>ASTM</b>	<b>RESULTS</b>	<b>RESULTS (Metric)</b>
<b>Flame Spread</b>	E84	75	75
<b>Smoke Development</b>	E84	200	200
<b>Burning Brand</b>	E108-modified	Class B*	Class B*
<b>Flash Point</b>	D92	750°F	398°C
<b>Fire Point</b>	D92	729°F	387°C
<b>Coefficient of Thermal Expansion</b>	D696		
width		3.41x10 <sup>-5</sup>	3.41x10 <sup>-5</sup>
length		1.6 x 10 <sup>-5</sup>	1.6 x 10 <sup>-5</sup>
<b>Modulus of Elasticity (psi)</b>	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
<b>Modulus of Rupture (psi)</b>	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
<b>Tensile Modulus (psi)</b>	D638		
length		879000	6060MPa
width		378000	2606MPa
<b>Tensile Peak Stress (psi)</b>	D638		
length		1810	12.47MPa
width		648	4.46MPa
<b>Compressive Strength (psi)</b>	D695		
length		3031	20.89MPa
width		2899	19.98MPa
<b>Poisson Ratio</b>	D638		
length		0.394	0.394
width		0.1918	0.1918
<b>HDT 264 (psi)</b>	D648	206°F	1.82MPa / 96.7°C
<b>Vicat 1 kg</b>	D1525	274°F	134.4°C
<b>Shore D Hardness</b>	D2240	D85	D85
<b>Specific Gravity gm/cc</b>	D792	1.2	1.2
<b>Fungus Resistance</b> (brown and white rot fungi)	D1413	rating = no decay	
<b>Coefficient of Friction</b>	ASTM D 2047		
dry		0.55	0.55
wet		0.88	0.88
<b>Screw Withdraw #8 wood screw</b>	D1761	787 lbs/in	1377.25n/m
<b>Water Absorption</b>	D1037		
%vol		<1.35%	<1.35%
%mass		<1.29%	<1.29%

\* No worse than wood.