

TimberTech Material Properties¹

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PROPERTY	Standard	RESULTS	RESULTS (Metric)	
Flame Spread Index Earthwood Evolutions	ASTM E84	70	70	
		85	85	
	CAN/ULC S102.2	61	61	
Smoke Development Earthwood Evolutions	ASTM E84	200	200	
	ASTM E84	450	450	
	CAN/ULC S102.2	351	351	
Burning Brand	E108-modified San Diego County	Class B ² Pass ³		
UnderDeck Test	San Diego County CA SFM 12-7-4	Pass ³ Pass ³		
Flash Point	ASTM D1929	651°F	344°C	
Spontaneous Ignition	ASTM D1929	788°F	420°C	
Coefficient of Thermal Expansion	ASTM D696	width	3.4x10-5 in/in/F°	6.1x10-5 mm/mm/°c
		length	2.0 x 10-5 in/in/F°	3.6 x 10-5 mm/mm/°c
Floorizon Plank		Flexural Stiffness ⁴	426,508 lb-in ²	1,224,000 kN-mm ²
		Moment Capacity ⁴	2,548 in-lb	287,900 N-mm
Earthwood Evolutions		Flexural Stiffness ⁴	218900 lb-in ²	628,203 kN-mm ²
		Moment Capacity ⁴	2510 in-lb	283,592 N-mm
TwinFinish	ASTM D 6109	Flexural Stiffness ⁴	292052 lb-in ²	838,136 kN-mm ²
		Moment Capacity ⁴	2669 in-lb	301,557 N-mm
ReliaBoard		Flexural Stiffness ⁴	207046 lb-in ²	595,218 kN-mm ²
		Moment Capacity ⁴	2057 in-lb	232,410 N-mm
DockSider		Flexural Stiffness ⁴	619200 lb-in ²	1,776,993 kN-mm ²
		Moment Capacity ⁴	4536 in-lb	512,499 N-mm
Compression Parallel to Extrusion Direction ⁴	ASTM D 143	2685 psi	18.5 MPA	
	ASTM D 143	4649 psi	32.0 Mpa	
Compression Perpendicular to Extrusion Direction ⁴	ASTM D 638	1734 psi	11.9 Mpa	
Tensile ⁴	ASTM D 143	1274 psi	8.8 Mpa	
Shear ⁴	ASTM D 648	206°F	1.82MPA / 96.7°C	
HDT 264 (psi)	ASTM D 1525	274°F	134.4°C	
Vicat 1 kg	ASTM D 2240	D85	D85	
Shore D Hardness	ASTM D 792	1.2	1.2	
Specific Gravity gm/cc ³	ASTM D 3345	Equivalent to preservative treated lumber		
Termite Resistance	ASTM D 1413	rating = no decay		
Fungus Resistance (brown and white rot fungi)				
Coefficient of Friction Brushed Surface		dry	0.77	
		wet	0.56	
VertiGrain	ASTM F1679	dry	0.63	
		wet	0.55	
WoodGrain		dry	0.54	
		wet	0.43	
Earthwood Evolutions ⁵		dry	0.50	
		wet	0.45	
Water Absorption %mass	ASTM D1037			
			<1.29%	<1.29%

- 1) All decking profiles with exception of XLM.
- 2) Comparable to wood.
- 3) Does not include Floorizon or Earthwood Evolutions planking. Please see website for most current information.
- 4) Mean ultimate values for comparison only.
- 5) Values based on ASTM D2394 also available