

TIMCO Wood Deck Technical Specifications

MATERIAL

Timco Wood wood plastic composite decking board is no ordinary decking board. Made from recycled timber and plastics, the WPC decking system combines their unique properties in one base material. With the low maintenance and durability of the plastic & the texture, appearance and strength of the wood, our wood composite decking board is eco-friendly, extremely stable and is perfectly suited for outdoor use in the garden as well as hotels, pubs, leisure centres etc.

STRUCTURE

Extruded composite deckboard.

	Dimensions	Length
Composite Decking Board	150 x 25 mm	3.6mm or 2.4mm or 2.2mm

* Actual length tolerances may vary subject to temperature.

PHYSICAL & MECHANICAL PROPERTIES OF TIMCO WOOD WPC DECKBOARDS

Characteristic	Reference	Unit									
Density	EN ISO 1183-1:2012 method A	1292 Kg/m ³									
Freeze-thaw 3 cycles	ASTM D7031:2011, EN 310:1993	Bending strength: 42.5 MPa Modulus of elasticity: 3907 MPa									
Linear thermal expansion	ASTM D696:2008e1	48.0 x 10 ⁻⁶ /°C									
Formaldehyde	ASTM D6007:2014	<0.02 ppm									
Pb, Cu content	EN 71-3:2013	<table border="1"> <thead> <tr> <th></th> <th>Limit(mg/kg)</th> <th>Result (mg/kg)</th> </tr> </thead> <tbody> <tr> <td>Copper (Cu)</td> <td>7700</td> <td><10</td> </tr> <tr> <td>Lead (Pb)</td> <td>160</td> <td><10</td> </tr> </tbody> </table>		Limit(mg/kg)	Result (mg/kg)	Copper (Cu)	7700	<10	Lead (Pb)	160	<10
	Limit(mg/kg)	Result (mg/kg)									
Copper (Cu)	7700	<10									
Lead (Pb)	160	<10									
Point Load	in house method (Test span was 300mm)	Breaking load: 7779 N									
Uniform unadjusted allowable load	ASTM D6109-13 modified	77.6 kN/m ²									
Flexural proprieties	EN 15534-1:2014 ANNEX A	Bending Strength: 44.4 MPa Modulus of elasticity: 4228 MPa Mean value of maximum load: 6985 N Minimum value of maximum load: 6697 N Deflection at 500 N Mean value: 0.90 mm Maximum value: 0.95 mm									
Creep Behaviour	EN 15534-1:2014 7.4.1	Mean Value: ^S=1.95 mm ^Sr=1.90mm Max value: ^S=2.05 mm									
Impact resistance	EN 15534-1:2014 7.1.1 & EN ISO 179-1:2010	5.0 kj/m ²									
Boiling test	EN 15534-1:2014 8.3.3	Water Absorption Mean value: 0.71% Max value: 0.73%									
Water absorption, thickness swell 24h	EN 15534-1:2014 8.3.1	<table border="1"> <tbody> <tr> <td>Means swelling in thickness: 0.05% in width: 0.00% in length: 0.01%</td> <td>Max swelling in thickness: 0.09% in width: 0.01% in length: 0.01%</td> </tr> <tr> <td>Means water absorption: 0.18%</td> <td>Max water absorption: 0.19%</td> </tr> </tbody> </table>	Means swelling in thickness: 0.05% in width: 0.00% in length: 0.01%	Max swelling in thickness: 0.09% in width: 0.01% in length: 0.01%	Means water absorption: 0.18%	Max water absorption: 0.19%					
Means swelling in thickness: 0.05% in width: 0.00% in length: 0.01%	Max swelling in thickness: 0.09% in width: 0.01% in length: 0.01%										
Means water absorption: 0.18%	Max water absorption: 0.19%										
Nail and screw withdrawal	EN 15534-1:2014 7.6 & EN 13446:2002	Surface withdrawal: 25.4 N/mm ² Edge withdrawal: 26.7 N/mm ²									
Hardness (resistance to indentation)	EN 15534-1:2014 7.5 & EN 1534:2010	Brinell hardness: 244 HB Rate of elastic recovery: 58%									
Expansion Rate	House method	0.3% - 0.5%									