TIMCO Wood Ltd.

SPECIFICATIONS

CLASSIC 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
CLASSIC Composite Deck Board	146 x 22mm	2.2m

* 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
Heat Deflection Temperature	CEN/TS 15534-1:2007 Clause 6.3 EN ISO 75-1-2004	61.5°C (Method A)
Coefficient of Friction	CEN/TS 15534-1:2007 Clause 6.4 EN 13893:2002	0.44
Impact Resistance	EN 15534-1:2014 7.1.1 EN ISO 179-1:2010	5.0 kj/m^2
Formaldehyde[3]	ASTM D6007:2014	<0.02ppm
Flexural Property of Load Bearing products - Point Load	In House Method	Breaking Load: 7779 N
Uniform Unadjusted Allowable Load[6]	ASTM D6109-13 Modified	77.6kN/m^2
Resistance to Artifical Weathering (720 hours)	CEN/TS 15534-1:2007 Clause 8.1.1 EN ISO 4892-2:2013(E)	ΔE* = 1.39 Grey Scale = 4
Water Absorption Thickness Swell 25h	EN 15534-1:2014 8.3.1	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% Mean Water Absorption: 0.18% Max Water Absorption: 0.19%
Moisture Resistance	CEN/TS 15534-1:2007 Clause 8.5.1 EN 321:2001	Thickness Change: 0.3% Bending Strength (initial): 23.1 Mpa Bending Strength (final): 21.8 Mpa Residual: 94.4%
Heat Reversion	CEN/TS 15534-1:2007 Clause 9.2 EN 479:1999	0.1%
Heat Build-up	CEN/TS 15534-1:2007 Clause 9.3 Annex F	Horizontal Position, Δ T=54.2°C
Freeze-thaw 3 Cycles[1]	ASTM D7031:2011, EN310:1993	Bending strength: 42.5 MPa Modulus of Elasticity: 3907 MPa
Linear Thermal Expansion[2]	ASTM D696:2008e1	48.0 x 10^{-6} /°C
Expansion Rate	House method	0.3% - 0.5%

Unit 4 Senate Place, Off Whitworth Road, Stevenage, Herts. SG1 4QS, UK
Tel: 01438 311203 E: info@timcowood.com www.timcowood.com

TIMCO Wood UK

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Characteristic	Reference	Unit
Lead and Copper Content[4]	EN 71-3:2013	Limit (mg/kg) / Results (mg/kg) Copper(Cu) 7700 <10 Lead(Pb) 160 <10
Nail & 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: 244HB Rate of Elastic Recovery: 58%
Flexural Properties	EN 15534-1:2014 Annex A	Bending Strength: 44.4 MPa Modulus of Elasticity: 4228 MPa Mean Value of Maximum Load: 6697 N Deflection at 500 N Mean Value at 0.90mm Maximum Value: 0.95mm
Creep Behaviour[1]	EN 15534-1:2014 7.4.1	Mean Value: ΔS = 1.95mm ΔSr = 1.90mm Max Value: ΔS = 2.05mm
Boiling Test	EN 15534-1:2014 8.3.3	Water Absorption Mean Value: 0.71% Maximum Value: 0.73%
Neutral Salt Spray Test	ISO 9227-2006	After 96 hours salt spray test, there was no corrosion on the sample
Chemical Analysis of Stainless Steel Components (Ni Cr)	Material Identification	Decking Fixing Clip: Ni - 8.05%, Cr - 18.52% Start/End Clips: Ni - 8.03%, Cr - 18.36%
Resistance to Fungi	ISO 16869:2008	Rating 0, no growth

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