

ReduxTM

DECKING EVOLVED

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 **Composite Prime**[®]
NATURAL EVOLUTION

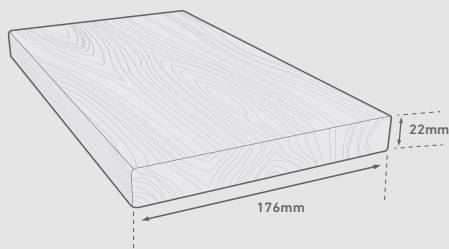
Test	Test Method	Test Description	REDUX	Requirements
Slip Resistance	EN 15534-1:2014 Section 6.4.2 CEN/TS 15676:2007 EN 15534-4:2014 Section 4.4	Pendulum Wet Longitudinal	Mean: 46 (68) Min: 45 (62)	≥ 36 Shoe Shod 96 Slider ≥ 36 (Bare Foot 55 Slider)
		Pendulum Wet Horizontal	Mean: 45 (72) Min: 43 (65)	
	EN 15534-1:2014 Section 6.4.2 CEN/TS 15676:2007 EN 15534-4:2014 Section 4.4	Pendulum Dry Longitudinal	Mean: 52 (90) Min: 48 (78)	
		Pendulum Dry Horizontal	Mean: 54 (96) Min: 50 (88)	
	DIN 51130:2014	Slip Resistance Oil-Wet Ramp Test	R11 21.6°	
Flexural Properties (300mm)	EN 15534-1:2014+A1:2017 Section 7.3.2 & Annex A	Bending Strength	53.2 MPa	-F' max: Mean ≥ 3300 N Min ≥ 3000 N
		Modulus of Elasticity	1943 MPa	
		Maximum Load	Mean: 10540 N Min: 9632 N	
		Deflection	Mean: 1.83 mm Max.: 2.09mm	
Flexural Properties (400mm)	EN 15534-1:2014+A1:2017 Section 7.3.2 & Annex A	Bending Strength	62.4 MPa	
		Modulus of Elasticity	2447 MPa	
		Maximum Load	Mean: 9460 N Min: 8623 N	
		Deflection at 500N:	Mean: 1.98 mm Max.: 2.49mm	
Tensile Properties	EN 15534-1:2014 Section 7.2 ISO 527-2:2012	Tensile Strength	Mean Value: 97.3 MPa	
Impact Resistance	EN 15534-1:2014 Section 7.1.2.1	Falling Mass Impact	Max Crack Length (mm): No Crack Max Residual Indentation (mm): 0.13	Pass
	EN 15534-1:2014 Section 7.1.1 ISO 179-1:2010	Charpy Impact Strength	Mean value: 77.25 kJ/m2	Method of Designation ISO 179-1/1fU
Pull Through Resistance	EN 15534-1:2014+A1:2017 Section 7.7 EN 1383:2016	Pull Through Resistance	Pull Through Parameter: 84.1 N/mm2	
Nail & Screw Withdrawal	EN 15534-1:2014+A1:2017 Section 7.6 EN 13446:2002	Nail & Screw Withdrawal	Withdrawal Capacity: 25.0 N/mm2	
Fire	EN ISO 9239-1:2010	Critical Heat Flux	Fire Behaviour: - Dfl Smoke Production: s-2	The classification has been carried out in accordance with EN 13501-1
	EN ISO 11925-2:2010 Exposure = 15 s	Ignitability		
Water Absorption	EN 15534-1:2014 Section 8.3.1 EN 317:1993	28 Days Immersion	Mean Swelling: 0.22% in thickness 0.08% in width 0.04% in length	Mean Swelling: ≤ 4% in thickness ≤ 0.8% in width ≤ 0.4% in length
			Max Swelling: 0.33% in thickness 0.09% in width 0.10% in length	Max Swelling: ≤ 5% in thickness ≤ 1.2% in width ≤ 0.6% in length
			Water Absorption: Mean: 2.3% Max: 2.4%	Water Absorption: Means ≤ 7% Max. ≤ 9%
Density	EN 15534-1:2014 Section 6.2 ISO 1183-1:2012 Method A	Density	0.868 g/cm3	

Test	Test Method	Test Description	REDUX	Requirements
Moisture Resistance Under Cyclic Test Conditions (Test Span: 300mm)	EN 15534-1:2014+A1:2017 Section 8.3.2 & Annex A EN 321:2001	Original Bending Strength	53.2 MPa	
		After Exposure	Mean Bending Strength: 46.1 MPa Mean Decrease: 13.3% Min Bending Strength: 40.0 MPa Max. Decrease: 24.8%	
Moisture Resistance Under Cyclic Test Conditions - Dark Brown Sample (Test Span: 400mm)	EN 15534-1:2014+A1:2017 Section 8.3.2 & Annex A EN 321:2001	Original Bending Strength	62.4 MPa	
		After Exposure	Mean Bending Strength: 55.2 MPa Mean Decrease: 11.5% Min Bending Strength: 51.0 MPa Max. Decrease: 18.3%	
Boiling Test	EN 15534-1:2014+A1:2017 Section 8.3.3	Water Absorption in Weight	Mean: 21.2% Max: 23.2%	
Linear Thermal Expansion Coefficient	EN 15534-1:2014+A1:2017 Section 9.2 ISO 11359-2:2021	Linear Thermal Expansion	Longitudinal Direction: $38.7 \cdot 10^{-6} \text{ K}^{-1}$	

These specifications represent the result of Intertek evaluation of ReduxTM to the requirements of the standards listed above.



Board Dimensions: 22 x 176 x 3600mm



ReduxTM is the result of many years of research and development to create a deck board that truly replicates timber boards.

ReduxTM has been cast from aged American Red Oak timbers to give that authentic oak appearance beautifully replicating 20 uniquely grained boards to give the deck the integrity of oak timbers.

Manufactured utilising solar energy & recycled plastics ReduxTM minimises the consumption of virgin materials in a board that's user friendly to install.