

## MATERIAL PROPERTY DATASHEET

Decorative high-pressure compact laminates according to EN 438-6:2016 with thickness of 8 mm for outdoor applications. Sheets consisting of layers of natural fibres (paper and/or wood) impregnated with thermosetting resins and surface layer on one side, having decorative colours. A transparent topcoat is added to the surface layer and cured by Trespa's unique in-house technology Electron Beam Curing (EBC), to enhance weather and light protecting properties. These components are bonded together with simultaneous application of heat and high specific pressure to obtain a homogeneous closed material with increased density and integral decorative surface.

PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT	RESULT
				GRADE: EDF
				STANDARD: EN 438-6
				COLOUR/DECOR <sup>A</sup>
<b>SURFACE QUALITY</b>				
	EN 438-2 : 4	Spots, dirt, similar surface defects	mm <sup>2</sup> /m <sup>2</sup>	≤ 2
		Fibres, hairs & scratches	mm/m <sup>2</sup>	≤ 20
<b>DIMENSIONAL TOLERANCES</b>				
	EN 438-2 : 5	Thickness	mm	+/- 0.50
	EN 438-2 : 9	Flatness	mm/m	≤ 2
	EN 438-2 : 6	Length & width	mm	+ 5 / - 0
	EN 438-2 : 7	Straightness of edges	mm/m	≤ 1
<b>PHYSICAL PROPERTIES</b>				
Resistance to impact by large diameter ball	EN 438-2 : 21	Indentation diameter - $\delta \leq 1$ mm with drop height 1.8 m	mm	≤ 10
Dimensional stability at elevated temperature	EN 438-2 : 17	Cumulative dimensional change	Longitudinal %	≤ 0.25
			Transversal %	≤ 0.25
Resistance to wet conditions	EN 438-2 : 15	Mass increase	%	≤ 3
		Appearance	Rating	≥ 4
Modulus of elasticity	EN ISO 178	Stress	MPa	≥ 9000
Flexural strength	EN ISO 178	Stress	MPa	≥ 120
Tensile strength	EN ISO 527-2	Stress	MPa	≥ 70
Density	EN ISO 1183	Density	g/cm <sup>3</sup>	≥ 1.35
Resistance to fixings	ISO 13894-1	Pull out strength	N	≥ 3000
<b>WEATHER RESISTANCE PROPERTIES</b>				
Resistance to climatic shock	EN 438-2 : 19	Flexural strength index (Ds)	Index	≥ 0.80
		Flexural modulus index (Dm)	Index	≥ 0.80
		Appearance	Rating	≥ 4
Resistance to artificial weathering (incl. light fastness) West European cycle	EN 438-2 : 29	Contrast	Grey scale ISO 105 A02	4-5
		Appearance	Rating	≥ 4
Resistance to artificial weathering (incl. light fastness) Florida cycle 3000hrs	Trespa Standard	Contrast	Grey scale ISO 105 A02	4-5
		Appearance	Rating	≥ 4
Resistance to SO <sub>2</sub>	DIN 50018	Contrast	Grey scale ISO 105 A02	4-5
		Appearance	Rating	≥ 4
<b>FIRE PERFORMANCE</b>				
Reaction to Fire	EN 438-7	Classification	Euroclass	B-s2, d0
Surface Burning Characteristics	ASTM E84	Classification	Class	A

A All data are related to the products mentioned in the Pura<sup>®</sup> NFC standard delivery programme.