

TRESPA® TOPLAB®BASE

Decorative high-pressure compact laminates according to EN 438-4:2005 of thicknesses of 6 mm (± 1/4 in) or greater for interior use. Sheets consisting of layers of wood-based fibres (paper and/or wood) impregnated with thermosetting resins and surface layer(s) on one or both sides, having decorative colours or designs. The surface layers are impregnated with melamine based resins. These components are bonded together with simultaneous application of heat (≥ 150° C / ≥ 302° F) and high specific pressure (> 7 MPa) to obtain a homogeneous non-porous material with increased density and integral decorative surface. They are available in the Standard grade (CGS) and in the Fire-Retardant grade (CGF).

Properties	Test method	Property or attribute	Unit	Result [Ⓐ] [Ⓑ]					
				Grade: CGS (Toplab [®] BASE)	Grade: CGF (Toplab [®] BASE FR)				
				Standard: EN 438-4	Standard: EN 438-4				
				Colour/Decor: All [Ⓑ]	Colour/Decor: All [Ⓑ]				
Surface quality									
Surface quality	EN 438-2 : 4	Spots, dirt, similar surface defects	mm ² /m ² in ² /ft ²		≤ 1 ≤ 0.0001				
		Fibres, hairs & scratches	mm/m ² in/ft ²		≤ 10 ≤ 0.036				
Dimensional tolerances									
Dimensional tolerances	EN 438-2 : 5	Thickness	mm		6.0 ≤ t < 8.0: +/- 0.40 8.0 ≤ t < 12.0: +/- 0.50 12.0 ≤ t < 16.0: +/- 0.60 16.0 ≤ t < 20.0: +/- 0.70 20.0 ≤ t ≤ 25.0: +/- 0.80				
				in		0.2362 ≤ t < 0.3150 : +/- 0.0157 0.3150 ≤ t < 0.4724 : +/- 0.0197 0.4724 ≤ t < 0.6299 : +/- 0.0236 0.6299 ≤ t < 0.7874 : +/- 0.0275 0.7874 ≤ t ≤ 0.9842 : +/- 0.0315			
					EN 438-2 : 9	Flatness	mm/m in/ft	≤ 2 ≤ 0.024	
								EN 438-2 : 6	Length & width
					EN 438-2 : 7	Straightness of edges	mm/m in/ft		
	Trespa Standard	Squareness	mm in					2550 x 1860 = max. difference between diagonals (x-y) = 4 3050 x 1530 = max. difference between diagonals (x-y) = 4 100.39 x 73.23 = max. difference between diagonals (x-y) = 0.1575 120.08 x 60.24 = max. difference between diagonals (x-y) = 0.1575	
				Physical properties					
	Resistance to surface wear	EN 438-2 : 10	Wear resistance - Revolutions (min)	Initial point Wear value		≥ 150 ≥ 350			
	Resistance to impact by large diameter ball	EN 438-2 : 21	Indentation diameter - δ ≤ t mm with drop height 1.8m	mm		≤ 10			
	Resistance to scratching	EN 438-2 : 25	Force	Rating (min)		≥ 3			
Resistance to dry heat (160°C/320°F)	EN 438-2 : 16	Appearance	Rating (min)		≥ 4				
Resistance to wet heat (100°C/212°F)	EN 12721	Appearance	Rating (min)		≥ 4				
Resistance to immersion in boiling water	EN 438-2 : 12	Mass increase (% max)	t ≥ 6 mm		≤ 1				
		Thickness increase (% max)	t ≥ 6 mm		≤ 1				
		Appearance	Rating (min)		≥ 4				
Dimensional stability at elevated temperature	EN 438-2 : 17	Cumulative dimensional change	Longitudinal % Transversal %		≤ 0.30 ≤ 0.60				
Resistance to staining	EN 438-2 : 26	Appearance - Rating (min)	Group 1 & 2 Group 3		5 4				
Light fastness (xenon arc)	EN 438-2 : 27	Contrast (Wool scale)	ASTM G53-91 (314-400nm)		≥ 6				
Resistance to water vapour	EN 438-2 : 14	Appearance	Rating (min)		≥ 4				
Resistance to cigarette burns	EN 438-2 : 30	Appearance	Rating (min)		≥ 3				
Resistance to crazing	EN 438-2 : 24	Appearance	Grade (min)		≥ 4				
Modulus of elasticity	EN ISO 178	Stress	MPa		≥ 9000				
Flexural strength	EN ISO 178	Stress	MPa		≥ 100				
Tensile strength	EN ISO 527-2	Stress	MPa		≥ 70				
Density	EN ISO 1183	Density	g/cm ³		≥ 1.35				
Resistance to fixings	ISO 13894-1	Pull out strength	N		6 mm : ≥ 2000 8 mm : ≥ 3000 ≥ 10 mm : ≥ 4000				
				Fire performance					
				Europe					
Reaction to Fire	EN 13501-1	Classification t ≥ 6 mm / 0.2362 in	Euroclass		B-s2, d0				
		Classification t ≥ 8 mm / 0.3150 in (Metal Frame)	Euroclass	D-s2, d0	B-s1, d0				
North America									
Material Surface Burning Characteristics [Ⓒ]	ASTM E84/UL 723	Classification	Class	B	A				
		Flame Spread Index	FSI	26-75	0-25				
		Smoke Developed Index	SDI	0-450	0-450				
Other properties									
Releasage of formaldehyde	EN 717-2	Classification	Class		E1				

[Ⓐ] Due to conversion from metric values, the US values provided are approximate.
[Ⓑ] All data are related to the products mentioned in the Trespa® Toplab[®]BASE standard delivery programme.
[Ⓒ] Laboratory test results are not intended to represent hazards that may be present under actual fire conditions.