



Decorative high-pressure compact laminates according to EN 438-6:2016 with thicknesses of 6 mm and 8 mm for external applications. Sheets consisting of layers of natural wood-based fibres (paper and/or wood) impregnated with thermosetting resins and surface layer(s) on one or both sides, having decorative colours. A transparent topcoat is added to the surface layer(s) to enhance weather and light protecting properties. These components are bonded together with simultaneous application of heat ($\geq 150^{\circ}\text{C}$ / $\geq 302^{\circ}\text{F}$) and high specific pressure ($> 7\text{ MPa}$) to obtain a homogeneous non-porous material with increased density and integral decorative surface. They are available in the Fire-Retardant grade (EDF).

		EN438 Classification		EDF VIVIX + ®
		Standard		Standard: EN438-6
		Applicability:		Decors/Colours: All
Properties	Test method	Property or attribute	Unit	Requirements
SURFACE QUALITY				
Surface Quality	EN438-2: 4	Spots, dirt, similar surface defects	mm²/m²	≤ 2
		Fibres, hairs & scratches	mm/m²	≤ 20
DIMENSIONAL TOLERANCES				
Dimensional tolerances	EN438-2: 5	Thickness	mm	±0,40 for thickness 6mm ±0,50 for thickness 8mm
	EN438-2: 6	Length & Width	mm	+10 mm/ -0mm
	EN438-2: 7	Squareness	mm	≤ 1,5
	EN438-2: 8	Edge Straightness	mm/m	≤ 1,5
	EN438-2: 9	Flatness	mm/m	≤ 8,0 for thickness 6mm ≤ 5,0 for thickness 8mm
PHYSICAL PROPERTIES				
Resistance to impact by large diameter ball	EN438-2: 21	Drop height	mm	≤ 10
Resistance to wet conditions	EN438-2: 15	Mass Increase	%	≤ 8
		Appearance	surface rating	≥ 4
			edge rating	≥ 3
Dimensional stability at elevated temperatures	EN438-2: 17	Cumulative dimensional cange	Longitudinal %	≤ 0.30
			Transversal %	≤ 0.60
Modulus of elasticity	EN ISO 178	Stress	MPa	≥ 9000
Flexural Strength	EN ISO 178	Stress	MPa	≥ 80
Tensile Strength	EN ISO 527-2	Stress	MPa	
Resistance to Fixings	ISO 13894-1	Pull out strength	N	6mm: ≥2000N 8mm: ≥3000N
Density	EN ISO 1183-1	Density	g/cm3	≥ 1,35
FIRE BEHAVIOUR				
Reaction to Fire *	EN13501-1	Classification t ≥ 6.0mm	Euroclass	B-s2,d0
		Classification t ≥ 8.0mm		B-s1,d0
WEATHER RESISTANCE REQUIREMENTS				
Resistance to climatic shock	EN438-2: 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) <i>West European cycle</i>	EN438-2: 29	Contrast	Grey scale ISO 105 A02	4-5
		Contrast	Grey scale ISO 105 A03	4-5
		Appearance	Rating	≥ 4



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Properties	Test method	Property or attribute	Unit	Requirements
WEATHER RESISTANCE REQUIREMENTS				
Resistance to artificial weathering (incl. Light fastness) <i>Florida cycle 3000hrs</i>	Formica Standard	Contrast	Grey scale ISO 105 A02	4-5
		Contrast	Grey scale ISO 105 A03	4-5
		Appearance	Rating	≥ 4
Resistance to SO2	DIN 50018	Contrast	Grey scale ISO 105 A02	4-5
		Contrast	Grey scale ISO 105 A03	4-5
		Appearance	Rating	≥ 4
Resistance to UV light	EN438-2: 28	Contrast	Grey scale rating	≥ 3
		Appearance	Rating	≥ 4
Please note: * Laboratory test results are not intended to represent hazards that may be present under actual fire conditions. VIVIX + ® high performance weatherboard by Formica Group engineered for vertical exterior wall coverings. For other applications please contact your local Formica representative. Storage, machining, mounting and cleaning instructions are provided by the manufacturer. Please visit www.formica.info for the most up to date version of this document.				
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