Signage Product Specification Sheet

Product Description

Alumanate aluminum composite material uses a polyethylene core with aluminum facers on each side. Alumanate is an ultra-smooth, maintenance-free and long-lasting product that is excellent for all types of printing, painting, die-cutting, mounting and vinyl wrapping.

Tolerances

Thickness	± 0.2 mm
Width	± 2 mm
Length	- 0 / + 4 mm
Diagonal	± 5 mm
Aluminum Thickness	± 0.02 mm
Thermal Expansion	2.4 mm/m @ 100°C Temp Difference

Technical Properties

	2mm	3mm	4mm	6mm
Rigidity - kNcm²/m	345	865	1620	3840
Sound Insulation - dB	23	24	25	
Heat Coefficient - W/m²K	5.72	5.61	5.50	5.30
Aluminum Alloy	1100			
E-module - N/mm²	70.000			
Tensile Strength - N/mm²	145-185 RM			
Core, Black PE - g/cm³	0.92			
Flammability BS476	Part 6: Class 0, Part 7: Class 1			

Panel Dimensions

Panel Thickness	2mm, 3mm, 4mm, 6mm
Aluminum Thickness	.005", .006", .008", .010", ,012"
Standard Sizes	48"x96", 48"x120", 60"x120", 60"x144"

Weight - lbs/ft²	2mm	3mm	4mm	6mm
	0.56	0.84	1.12	1.68

Surface Properties

Paint Thickness	20µm - Enhanced Digital Polyester
Acid Resistance	Immerse surface in 2% HC1 for 48h no change
Alkali Resistance	Immersed surface in 2% NaOH for 24hrs without change
Oil Resistance	Immersed surface in 20# engine oil for 24hrs without change
Solvent Resistance	Cleaned 100 times with Dimethylbenzene without change
Gloss Value	35% Matte / 95% Gloss (Tolerance ± 5%)
Pencil Hardness	>HB
Temperature Resistance	- 50°C to + 90°C
Color Variation	5 year ΔE 3
Chalking	5 year index 8
Outdoor Durability	5 year warranty
Indoor Durability	10 year warranty

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