

# ACM Product Specification Sheet

## Product Description

Aluminum composite material uses a polyethylene core with aluminum facers on each side. It 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 Aluminum	± 5 mm
Thickness Thermal	± 0.02 mm
Expansion	2.4 mm/m @ 100°C Temp Difference

### 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/ft <sup>2</sup>	<u>2mm</u> <u>3mm</u> <u>4mm</u> <u>6mm</u> 0.56 0.84 1.12 1.68

### Technical Properties

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

### Surface Properties

Paint Thickness	20µm - Enhanced Digital Polyester
Acid Resistance	Immerse surface in 2% HCl 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 5
Outdoor Durability	year warranty 10
Indoor Durability	year warranty

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