

DECLARATION OF COMPLIANCE

Aluminium Composite Material (ACM) Board

The Klipspringer standard composite Aluminium board can be used for many visual management solutions, including shadow boards, KPI boards, quality standards, signage and more.

All visual management products using this board are printed laminated and assembled on site at Klipspringer. Composite aluminium combines 0.3mm layers of aluminium on both sides with a polyethylene core.

Technical Data – Aluminium

Properties	Panel Thickness - 2mm	Panel Thickness - 3mm
Aluminum:		
Thickness of Aluminum Layers	0.20mm	0.20mm
Weight (kg/m ²)	2.60	3.50
Section modulus W (cm ³ /m)	0.32	0.56
Rigidity (Poisson's ration $\mu = 0.3$) E-I (kNcm ² /m)	249	603
Alloy of Aluminum Layers	AlMg1 (EN AW-5005A) H46	
Modulus of Elasticity (N/mm ²)	70,000	
Tensile Strength of Aluminum (N/mm ²)	Rm \geq 165	
0.2% Proof Stress (N/mm ²)	Rp0.2 \geq 13	
Elongation (%)	A50 \geq 3	
Linear Thermal Expansion	2.4mm/m at 100oC temperature difference	
Core:		
Polyethylene, Type LD PE (G/cm ³)	0.92	
Surface:		
Both sides white (matt), Optimized for digital printing		
Range of application (°C)	-50 +80	
Acoustical Properties:		
Sound absorption Factor aS	0.05	
Sound Transmission Loss RW (dB)	23	24

Loss Factory d	0.0048	0.0057
Thermal Properties:		
Thermal resistance R (m ² K/W)c	0.0047	0.0080
Heat Transition Coefficient U (W/m ² K)	5.72	5.61
Water absorption DIN 43495 (%)	0.01	
Static charge	No antistatic treatment required	
Fire resistant	Class B2 according to DIN 4102-1	
UV stability in sunlight	Yes	

Cleaning:

Boards should be cleaned with non-abrasive methods, cleaning from top to bottom. Avoid prolonged exposure to powerful alkaline cleaning agents. Once cleaned the board should be washed off with cold water in order to remove all cleaning residues.

This document was prepared on behalf of Klipspringer Ltd and the information included is to the best of our knowledge correct at the time of writing. Klipspringer offers the information within this document as a guide only, they do not represent any guarantee of the prescribed products in the sense of the legal guarantee regulations. It is the responsibility of the end user to ensure the items purchased are suitable for the intended application.

This certificate was prepared on behalf of Klipspringer Ltd and the information included is to the best of our knowledge correct at the time of writing. Klipspringer offers the information within this document as a guide only, they do not represent any guarantee of the prescribed products in the sense of the legal guarantee regulations. It is the responsibility of the end user to ensure the items purchased are suitable for the intended application.

Supplier/Importer	Klipspringer Ltd
Address	Rynor House, Farthing Road, Ipswich, Suffolk, UK. IP1 5AP
Telephone	+44 (0) 1473 461 800
Email	sales@klipspringer.com
Website	www.klipspringer.com