

S082 Specification – Visual Management Board

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

All visual management products using this board are printed, laminated and assembled on site at Klipspringer.

Composite aluminum combines 0.3mm layers of aluminum on both sides with a polyethylene core.

Technical Data

Panel thickness:	2mm	3mm
Thickness of Aluminum layers	0.20mm	0.2mm
Weight (Kg/m ²):	2.60	3.50

Technical Properties:

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) H 46	
Modulus of Elasticity (N/mm ²)	70'000	
Tensile Strength of Aluminum (N/mm ²)	R _m ≥ 165	
0.2% Proof Stress (N/mm ²)	R _{p0.2} ≥ 135	
Elongation (%)	A ₅₀ ≥ 3	
Linear Thermal Expansion	2.4mm/m at 100°C temperature difference	

Core:

Polyethylene, Type LD PE (G/cm ³)	0.92	0.92
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Surface:

Both sides white (matt)
Optimized for digital printing

Range of application (°C) -50 +80

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Acoustical properties:

Sound absorption Factor α_s	0.05	0.05
Sound Transmission Loss R_w (dB)	23	24
Loss Factory d	0.0048	0.0057

Thermal Properties:

Thermal resistance R (m^2K/W)	0.0047	0.0080
Heat Transition Coefficient U (W/m^2K)	5.72	5.61
Water absorption DIN 43495 (%)	0.01	0.01
Static charge	No antistatic treatment required	
Fire resistant	Class B2 according to DIN 4102-1	

UV stability in sunlight

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.

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