

## PRODUCT SPECIFICATION

### 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 and UV coated 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/m²)  | 2.60                                    | 3.50                  |
| Section modules W (cm³/m)                               | 0.32                                    | 0.56                  |
| Rigidity (Poisson's ration μ = 0.3) E-I (kNcm²/m)       | 249                                     | 603                   |
| Alloy of Aluminum Layers                                | AlMg1 (EN AW-5005A) H46                 |                       |
| Modulus of Elasticity (N/mm²)                           | 70,000                                  |                       |
| Tensile Strength of Aluminum (N/mm²)                    | Rm ≥ 165                                |                       |
| 0.2% Proof Stress (N/mm²)                               | Rp0.2 ≥ 13                              |                       |
| Elongation (%)  | A50 ≥ 3                                 |                       |
| Linear Thermal Expansion                                | 2.4mm/m at 100oC temperature difference |                       |
| Core:   |   |                       |
| Polyethylene, Type LD PE (G/cm3)                        | 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 |
| <b>Thermal Properties:</b>                         |                                  |        |
| Thermal resistance R (m <sup>2</sup> K/W)c         | 0.0047                           | 0.0080 |
| Heat Transition Coefficient U (W/m <sup>2</sup> 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.

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