

KOBERT-IN

TECHNICAL SPECIFICATIONS

Kobert-In is a composite panel specially created for interior wall paneling. its composition of AlMg1 provides great stability and a very high resistance to corrosion. This combination makes Kobert In very suitable for wet spaces. On the other hand, its core, based on mineral charges, gives it a "hardly flammable" certification B-s1Do.

This certification is achieved without adding protective allogeneic anti-flame additives, making Kobert-In toxicologically harmless. Kobert-In is used where higher fire certifications rates are required: airports, trade fair pavilions, shopping centers, public buildings, store decoration, elevators, etc.

The test method has been done according to the following standards:

- Coating adherence
- Surface tearing
- Determination of the residual impression behavior
- Resistance to dry heat
- Resistance to humid heat
- Resistance to water vapor
- Scratch resistance
- Impact resistance due to falling ball



- EN ISO 2409:2013
- based on EN 311:2002
- UNE-EN ISO 24343-1:2012
- UNE-EN 12722:09+A1:2014
- UNE-EN 12721:09+A1:2014
- UNE-EN 14323:2017
- UNE-EN 15186:2012 (method A)
- UNE-EN 14323:2017



TEST RESULTS

CHARACTERISTICS	GLOSS	MATTE
Coating adherence (value)	0	0
Surface tearing (N/mm ²) ^A	> 2,00	> 1,80
Footprint		
- Impression (mm)	< 0,05	< 0,05
- Value	B	B
Resistance to dry heat 100°C (value))	5	5
Resistance to humid heat 85°C	5	5
Resistance to water vapor (grade)	5 ^C	5
Scratch resistance/ method A (N)	13	> 2000
Impact resistance due to falling ball ^D		
Height (mm)	> 2000	> 2000
Footprint diameter (m m)	< 10	< 10

	DEFAULT	THICKNESS
Panel		4 mm
Aluminium Thickness	DIN 1784	0,3 mm
Deviation	DIN 1784	± 0,02 mm
Weight		6,3 Kg/m ²
Elasticity	EN 1999 1-1	70000 N/mm ²
Linear Thermal Expansion	EN 1999 1-1	2,4 mm/n bei 100°C Temp difference
Thermal resistance R	DIN 52612	0,0113 m ² K/W
Heat Transmission Coefficient U	DIN 4108	5,48
Temperature Range		-50... + 80 W/m ² K

^{A)} The average value is indicated. In all cases, desizing of the steel cylinders occurs, so the adhesion of the finish would be superior. ^{B)} No deterioration. ^{C)} A recovery period greater than 48 hours has been considered. After 24 hours of rest, the high-gloss sample has a rating of 4. ^{D)} The impact resistance of the coating has been considered and not that of the support panel itself, since at this height no cracks or fingerprints greater than 10 mm occur. However, the support panel undergoes a flatness deformation from lower drop heights, especially visible in the high-gloss sample.