

Technical Data Sheet

ALUCOBOND® reflect

Panel thickness :		4 mm
Aluminium layer, front side	[mm]	0.50
Aluminium layer, reverse side	[mm]	0.50
Standard width	[mm]	1250
Weight	[kg/m ²]	5.5
Technical Properties :		
Section Modulus	W [cm ³ /m]	1.75
Rigidity (Poisson's ratio $\mu = 0.3$)	E·I [kNcm ² /m]	2400
Modulus of Elasticity		70'000
Tensile Strength of Aluminium	[N/mm ²]	R _m ≥ 130
0.2% Proof Stress	[N/mm ²]	R _{p0.2} ≥ 90
Linear Thermal Expansion		2.4 mm/m at 100°C temperature difference
Core :		
Polyethylene, Type LD PE	[g/cm ³]	0.92
Surface :		
Front side		UV resistant transparent ceramic coating
Total Reflection	[%]	84 - 85
Gloss	[%]	≥ 78
Rear side		Mill finish
Acoustical Properties :		
Sound Absorption Factor	α_s	0.05
Sound Transmission Loss	R _w [dB]	25
Loss Factor	d	0.0072
Thermal Properties :		
Thermal Resistance	R [m ² K/W]	0.0113
Heat Transition Coefficient	U [W/m ² K]	5.50
Range of Application	[°C]	-50...+80