

Technical data sheet

Panel thickness :		2 mm	3 mm	4 mm
Thickness of aluminum layer		0.30 mm		
Weight	[kg/m ²]	3.83	5.40	6.98
Technical Properties :				
Section Modulus	W [cm ³ /m]	0.51	0.81	1.11
Rigidity	E·I [kNcm ² /m]	345	865	1620
Alloy of Aluminum layer		EN AW-5005 (AlMg1), H44, according EN 485-2		
Modulus of Elasticity	[N/mm ²]	70'000		
Tensile Strength of Aluminum	[N/mm ²]	R _m 145 - 185		
Proof Stress (0.2)	[N/mm ²]	R _{p0.2} 110 - 175		
Elongation	[%]	A ₅₀ ≥ 3		
Linear Thermal Expansion		2.4 mm/m at 100°C temperature difference		
Core :				
Mineral filled polymer				
Surface :		Modified-Polyester-Coating		
Lacquering		30 -85 %		
Gloss (Initial value)		HB – F		
Hardness (pencil hardness)				
Note:		The surface quality for high-gloss and mirror surfaces can be slightly different from standard DIBOND® due to the modified DIBOND® FR core.		
Acoustical Properties :				
Sound Absorption Factor	α _s	0.05		
Fire-Classification :				
Class B – s1,d0 according DIN EN 13501-1				
Range of Application	[°C]	-50...+80		

CDS 11/2017