

ALUCORE®

Thickness	6	10	15	20	25	mm
Aluminium Skin Sheet, Front Side	1,0		1,0			mm
Aluminium Skin Sheet, Reverse Side	0,5		1,0			mm
Weight	4,7	5,0	6,7	7,0	7,3	kg/m ²
Technical Properties						
Section Modulus W	2,48	4,46	13,09	18,07	23,05	cm ³ /m
Rigidity E·I (with Poisson's Ratio)	7.100	21.900	75.500	138.900	221.600	kNcm ² /m
Alloy of Skin Sheet (acc. EN 485-2 / EN 1396:2007)	EN AW-5005A (AlMg1) (H22/H42)		EN AW-5005A (AlMg1) (H28/H48)			
Young's Modulus E	70.000					N/mm ²
Tensile Strength of Skin Sheet R _m (acc. EN 485-2 / EN 1396:2007)	≥ 125		≥ 185			N/mm ²
0.2% Proof Stress R _{p0.2} (acc. EN 485-2 / EN 1396:2007)	≥ 80		≥ 160			N/mm ²
Elongation A ₅₀ (acc. EN 485-2 / EN 1396:2007)	≥ 5		≥ 2			%
Linear Thermal Expansion α (at 100°C temperature difference)	2,4					mm/m
Core						
Cell Size	³ / ₈ (9,5)					inch (mm)
Bare Compressive Strength	approx. 2,6					N/mm ²
Surface						
	both sides coated with Modified Polyester Lacquer					
Temperature Resistance						
	-40 to +80					°C
Thermal Properties						
Conductivity λ (rel. total thickness)	0,95	1,35	1,78	2,25	2,70	W/mK
Resistance R	0,0063	0,0074	0,0084	0,0089	0,0093	m ² K/W
Acoustical Properties						
Sound Absorption Factor α _s	0,05					
Airborne Sound Insulation Index R _w (acc. ISO 717-1, ISO 140-3)	21	21	22	23	25	dB