



ACP TECHNICAL DATA SHEET

Standard	Unit	Panel thickness: 4mm
General		
Thickness of aluminum cover sheets(both sides)	mm	0.5
Weight		1.13 lb./sq. ft. or 5.5 kg/m ²
Technical properties		
Moment of Inertia I	Cm ⁴ /m	0.345
Section Modulus W (DIN53293)	cm ³ /m	1.75
Rigidity of Plate E.I (DIN53293)	KNcm ² /m	2400
Alloy of Cover plates		A3003 H16
Modulus of Elasticity (EN1999 1-1)	N/mm ²	70000
Tensile Strength of cover sheets (EN485-2)	N/mm ²	R _m >=120
0.2% Proof stress (EN485-2)	N/mm ²	R _{p0.2} >=90
Elongation (EN 485-2)	%	A ₅₀ >=5%
Peeling strength	N/mm	>=12
Linear Thermal expansion (EN1999 1-1)		2.4mm/m with 100 Deg C. Temp Difference
Temperature resistance		-50° C to +80° C
Core		
Non-toxic Low Density Polyethylene, Density	g/cm ³	0.91~ 0.92
Acoustical properties		
Sound absorption factor α _s (ISO354)		0.05
Airborne Sound Insulation Index (acc. To ISO 717-1) R _w	dB	>=26
Loss Factor d (EN ISO6721)		0.0087
Thermal Properties		
Thermal Resistance R (1/Λ) (DIN52612)	m ² K/W	0.0103
Heat transition Coefficient (U)(DIN4108)	W/m ² K	5.54
Surface		
Lacquering		PVDF coil coating
Film thickness (E.C.C.A.T1)	μ m	27 (± 3)
Specular gloss (E.C.C.A.T2)		30 - 35% according to Gardner
Pencil Hardness (ECCA T4)		HB-F
Film Adhesion after bending (E.C.C.A.T7)	T	1
Salt Spray Resistance (E.C.C.A.T8, DIN 50021 SS)		No creeps, no blisters after 100 hours of sample exposure.

Dimensions:

Standard: Thickness 4mm Width 1220mm 1250mm Length <5800mm	Upon Request Thickness 3mm, 4mm and 6mm Width Max. 1500 Length Max. 8000
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