

Technical Data Sheet

Panel Thickness	Standard	Unit	3mm
Thickness of Aluminium	DIN 1784	mm	0.2
Aluminum thickness	DIN 1784	mm	±0.02
Weight		Kg/m ²	4.28
Tolerance in length	DIN 16927 / ISO 11833-1	mm	±2
Tolerance in width	DIN 16927 / ISO 11833-1	mm	0
Tolerance in thickness	DIN 16927 / ISO 11833-1	mm	±0.1
Longitudinal roughness	DIN ISO 1101	mm	5
Horizontal flatness	DIN ISO 1101	mm	3
Corner warpage	DIN ISO 1101	mm	3
Section Modulus W	DIN 53293	cm ³ /m	1.05
Rigidity (Poisson's ratio $\mu = 0.3$) E.I	DIN 53293	kNm ² /m	0.14
Alloy	573-3	ENAW	1100
Temper of Cover Sheets	EN 515		H16/H18
Modulus of Elasticity	EN 1999 44562	N/mm ²	70,000
Tensile Strength of Aluminium	EN 485-2	N/mm²25	Rm≥145
0.002 Proof Stress	EN 485-2	N/mm ²	Rp0.2≥100
Elongation	485-2		%
Linear Thermal Expansion	EN 1999 44562	mm/m/oC	2.4 at 100°C temperature difference
Core			
Polyethylene, Typ LD-PE		g/cm ³	0.935
Surface			surface coating
Lacquering			polyester
Thickness of coating	$\mu\text{m} \geq 16$		≥16
Gloss (initial value)	ECCA T2	%	20 - 100
Pencil Hardness	ECCA T4		2H
Acoustical Properties			
Sound Absorption Factor α_s	ISO 354		0.05
Sound Transmission Loss RW	RW ISO 717-1	DB	25
Loss Factor d	EN ISO 6721		0.0065
Thermal Properties			
Thermal Resistance R	DIN 52612	m ² K/W	0.0042
Heat Transition Coefficient U	DIN 4108	W/m ² K	5.78
Temperature Range		OC	-50...+80
FR test	EN—13501		B (with Fireproofing core)
Colour difference	matt (white, silver)		$\Delta E \leq 1.0$
	bright (red, yellow, blue , green)		$\Delta E \leq 2.0$
Fire Performance	ASTM E84		Class A
Longitudinal roughness, Horizontal flatness and Corner warpage should be tested on a horizontal surface			

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