

# SPECIFICATION DATA SHEET

Panel Thickness	Standard	Unit	3 mm
Thickness of Aluminium	DIN 1784	mm	0.15
Aluminum thickness deviation	DIN 1784	mm	±0.02
Weight		Kg/m <sup>2</sup>	3.84
Tolerance in length	DIN 16927/ISO 11833-1	mm	-0/+3
Tolerance in width	DIN 16927/ISO 11833-1	mm	-0/+2
Tolerance in thickness	DIN 16927/ISO 11833-1	mm	±0.10
Horizontal flatness	DIN ISO 1101	mm	5
Longitudinal roughness	DIN ISO 1101	mm	5
Section Modulus W	DIN 53293	cm <sup>3</sup> /m	1.25
Rigidity (Poisson's ratio $\mu=0.3$ ) E.J	DIN 53293	kNm <sup>2</sup> /m	0.14
Alloy	EN 573-3	ENAW	1100
Temper of Cover Sheets	EN 515		H18
Modulus of Elasticity	EN 1999 1-1	N/mm <sup>2</sup>	70,000
0.2% Proof Stress	EN 485-2	N/mm <sup>2</sup>	Rpo0.2 ≥100
Elongation	EN 485-2	%	A50≥ 2
Surface			Coil Coating
Lacquering			(PE Finish)
Pencil Hardness	ASTM D3363-05		2H
Adhesion of Coating	ASTM D3359-09		5B
Coating Flexibility	ASTM D522/D522M-13		No visible crack
Detergent Resistance	ASTM D2248-01a		No visible change
Impact Resistance	ASTM D2794-93		>160 lb·inch
Peel Strength	ASTM D903-98		0.666 kgf/mm
Shear Strength	ASTM D732-10		26.6 Mpa
Tensile Strength of Aluminium	ASTM D638-14		45.8 Mpa
Chalking Test	ASTM D4214-07		No Chalking
Muriatic Acid Resistance	AAMA 2604-13		No blistering or other visual change
Mortar Resistance	AAMA 2604-13		No loss of adhesion or any other visual change
Thermal Conductivity	ASTM C518-15		0.128W/(m·K)
Coefficient of Linear Thermal Expansion	ASTM D696-2016		Average: 199.9x10 <sup>-6</sup>
Acoustical Properties			
Sound Absorption Factor $\alpha_s$	ISO 354		0.05
Sound Transmission Loss $R_w$	ISO 717-1	DB	25
Temperature Range		°C	-30--+80