

ALCO-PANEL

Technical Specifications

1300 727 118



PHYSICAL PROPERTIES

	Standard	Unit
Panel Thickness		mm
Thickness of Aluminium	DIN 1784	mm
Aluminum thickness deviation	DIN 1784	mm
Weight		kg/m ²
Tolerance in length	DIN 16927 / ISO 11833-1	mm
Tolerance in width	DIN 16927 / ISO 11833-1	mm
Tolerance in thickness	DIN 16927 / ISO 11833-1	mm
Horizontal flatness	DIN ISO 1101	mm
Longitudinal roughness	DIN ISO 1101	mm

ALCO-PANEL

3mm	4mm
0.3	0.3
±0.02	±0.02
4.23	5.23
-0/+2	-0/+2
-0/+1.5	-0/+1.5
±0.10	±0.10
3	3
5	5

TECHNICAL PROPERTIES

	Standard	Unit
Section Modulus W	DIN 53293	cm ³ /m
Rigidity(Poisson's ratio $\mu=0.3$)E	DIN 53293	kNm ² /m
Alloy	EN 573-3	ENAW
Temper of Cover Sheets	EN 515	
Modulus of Elasticity	EN 1999 1-1	N/mm ²
Tensile Strength of Aluminium	EN 485-2	N/mm ²
0.2% Proof Stress	EN 485-2	N/mm ²
Elongation	EN 485-2	%
Linear Thermal Expansion	EN 1999 1-1	mm/m/°C

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1.25	1.75
0.14	0.28
3003	
H16	
70000	
R _m ≥ 175	
R _{p0.2} ≥ 125	
A ₅₀ ≥ 3	
2.4 at 100°C Temp difference	

CORE

	Standard	Unit
Polyethylene, Typ LD-PE		g/cm ³

ALCO-PANEL

1.05

FIRE STANDARDS

Test	Description	ALCO-PANEL	
AS.1530.3	Simultaneous determination of ignitability, flame propagation, heat release, and smoke release.	Ignitability Index	Nil
		Flame Propagation	Nil
		Heat Release	Nil
		Smoke Release, log d	0.0407

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SURFACE PROPERTIES

Standard

Unit

Surface		
Lacquering		
Thickness of coating		μm
Gloss(initial value)	ECCA T2	%
Pencil Hardness	ECCA T4	
Toughness of coating		

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Coil Coating
Fluorocarbon based(PE)
PE ≥17
20-100
2H
2T

ACOUSTICAL PROPERTIES

Standard

Unit

Sound Absorption Factor αs	ISO 354	
Sound Transmission Loss Rw	ISO 717-1	DB
Loss Factor d	EN ISO 6721	

ALCO-PANEL

0.05	
25	26
0.0072	0.0087

THERMAL PROPERTIES

Standard

Unit

Thermal Resistance R	DIN 52612	m2K/W
Heat Transition Coefficient U	DIN 4108	W/m2k
Temperature Range		°C

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0.0069	0.0103
5.65	5.54
-50...+80	

RESISTANCE PROPERTIES

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Impact strength	30kg/cm
Boiling water resistance	Boiling for 2 hours without change
Acid resistance	Immerse surface in 2% Hc1 for 24 hours without change
Alkali resistance	Immerse surface in 2% Ca(OH)2 for 24 hours without change
Oil resistance	Immerse surface in 2% engine oil for 24 hours without change
Solvent resistance	Cleaned 100 times with dimethylbenzene without change
Cleaning resistance	100 times without change
Peel strength 180 degrees	5 newton / mm