

Panel Thickness	Standard	Unit	4mm
Thickness of Aluminium	DIN 1784	mm	0.50
Aluminum thickness deviation	DIN 1784	mm	- 0.01 / +0.00
Weight		Kg/m ²	8.1
Tolerance in length	DIN 16927 / ISO 11833-1	mm	- 0 / +2
Tolerance in width	DIN 16927 / ISO 11833-1	mm	± 1
Tolerance in thickness	DIN 16927 / ISO 11833-1	mm	± 0.20
Horizontal flatness	DIN ISO 1101	mm	4
Longitudinal roughness	DIN ISO 1101	mm	5
Technical Properties			
Alloy	EN 573-3	ENAW	1100/3003
Temper of Cover Sheets	EN 515		H24
Modulus of Elasticity	EN 1999 1-1	N/mm ²	70000
Tensile Strength of Aluminium	EN 485-2	N/mm ²	Rm ≥ 145
0.2% Proof Stress	EN 485-2	N/mm ²	Rp0.2 ≥ 90
Elongation	EN 485-2	%	A50 ≥ 3
Linear Thermal Expansion	EN 1999 1-1	mm/m/°C	2.4 at 100°C Temp difference
Apparent Thermal Conductivity	ASTM D976	kcal/m.hr.°C	0.39
Deflection Temperature	ASTM D648	°C	116
Core			
Fireresist core		kg/m ²	1.9
Surface			Coil Coating
Outside surface		µm	PVDF, ≥26
Gloss (initial value)	ASTM D523-89	%	30-80
Pencil Hardness	ECCA T4		1-2H
Inside surface		µm	Protective paint, ≥8µm
Acoustical Properties			
Sound Absorption Factor α_s	ISO 354		0.05
Sound Transmission Loss R_w	ASTM E413	DB	26
Mechanical Properties			
Tensile Strength	ASTM E8	Kg/mm ²	5
Yield Strength	ASTM E8	Kg/mm ²	4.5
Elongation	ASTM E8	%	5
Flexural Rigidity(20 cm span)	ASTM C393	x105 Kg.mm ²	14
Flexural Elasticity	ASTM C393	Kg/mm ²	4060
Flammability			
As per ASTM E84			class A
As per ASTM E119; 1-hr Fire Rating& 2-hr Fire Rating			passed
As per BS 476, Part 7			class 1
As per EN 13501-1			A2-s1,d0

Specification of ALUDREAM (FIRE -PROOF A2)

Panel Thickness	Standard	Unit	4mm
Thickness of Aluminium	DIN 1784	mm	0.50
Aluminum thickness deviation	DIN 1784	mm	- 0.01 / +0.00
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Tolerance in length	DIN 16927 / ISO 11833-1	mm	- 0 / +2
Tolerance in width	DIN 16927 / ISO 11833-1	mm	± 1
Tolerance in thickness	DIN 16927 / ISO 11833-1	mm	± 0.20
Horizontal flatness	DIN ISO 1101	mm	4
Longitudinal roughness	DIN ISO 1101	mm	5
Technical Properties			
Alloy	EN 573-3	ENAW	3003
Temper of Cover Sheets	EN 515		H24
Modulus of Elasticity	EN 1999 1-1	N/mm ²	70000
Tensile Strength of Aluminium	EN 485-2	N/mm ²	Rm ≥ 145
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Deflection Temperature	ASTM D648	°C	116
Core			
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Surface			Coil Coating
Outside surface		µm	PVDF, ≥26
Gloss (initial value)	ASTM D523-89	%	30-80
Pencil Hardness	ECCA T4		1-2H
Inside surface		µm	Protective paint, ≥8µm
Acoustical Properties			
Sound Absorption Factor α _s	ISO 354		0.05
Sound Transmission Loss R _w	ASTM E413	DB	26
Mechanical Properties			
Tensile Strength	ASTM E8	Kg/mm ²	5
Yield Strength	ASTM E8	Kg/mm ²	4.5
Elongation	ASTM E8	%	5
Flexural Rigidity(20 cm span)	ASTM C393	x105 Kg.mm ²	14
Flexural Elasticity	ASTM C393	Kg/mm ²	4060
Flammability			
As per ASTM E84			class A
As per ASTM E119: 1-hr Fire Rating & 2-hr Fire Rating			passed
As per BS 476, Part 7			class 1
As per EN 13501-1			A2-s1,d0