



TECHNICAL SPECIFICATIONS

STACBOND FR
fire retardant ACP

VER: 01/2022

PANEL PHYSICAL SPECIFICATIONS

Panel thickness (mm)	Panel weight (kg/m ²)	
	Visible aluminium thickness of 0.5 (mm)	Visible aluminium thickness of 0.3 (mm)
3	6.10	5.70
4	7.70	7.40
5	9.50	-
6	11.20	-

ALUMINIUM ALLOY	VALUE	NORM
Visible face	5005	UNE EN 573-3
Hidden face	3005/3105*	UNE EN 573-3

SHEET DIMENSIONS	UNITS	VALUE
Width (min. / max.)	mm	800 / 2000**
Length (min. / max.)	mm	2000 / 6000**
Thickness tolerance	mm	-0.15 / +0.10
Width tolerance	mm	-0 / +2
Length tolerance	mm	-0 / +10
Squareness (diagonal tolerance)	mm	± 3
Protective film width tolerance	mm	0; -5

TECHNICAL SPECIFICATIONS OF THE PANEL	UNITS	VALUE	NORM
Peeling	N/mm	≥ 9,80	ASTM D903 - 98 (2004)
Resistant module (W)	cm ³ /m	1.40	DIN 53293
Rigidity (EI)	kNcm ² /m	2610	DIN 53293
Acoustic insulation Rw (C;Ctr)	dB	33 (-1; -4)	ISO 717-1:2013
Sound reduction (Rw)	dB	33.30 ± 1.30	ISO 717-1:2013
Thermal resistance (R)	m ² k/W	0.014	UNE-EN ISO 12567-1
Thermal conductivity (λ)	W/m ² k	5.67	UNE-EN ISO 12567-1
Thermal transmittance (U)	W/m ² °C	0.448	UNE-EN ISO 12567-1
Operating temperature	°C	- 50 / + 80	

FR CORE SPECIFICATIONS	UNITS	VALUE	NORM
Density	g/cm ³	1.70 ± 0.10	
Fire reaction		B - S1, d0	UNE-EN-13501-1:2007

ALUMINIUM TECHNICAL CHARACTERISTICS	UNITS	VALUE	NORM	
Alloy		5005	3005/3105	UNE EN 573-3
		H42/H44	H42/H44	UNE EN 515
Modulus of elasticity (E)	N/mm ²	70 000	70 000	
Proof stress (R _{p0.2})	N/mm ²	≥ 80	≥ 110	EN 485-2
Tensile strength (R _m)	N/mm ²	125 ≥ R _m ≥ 185	130 ≥ R _m ≥ 215	
Elongation (A ₅₀)	%	≥ 3	≥ 4	
Density (ρ)	kg/m ³	2700	2700	EN 485-2
Thermal expansion (α)	mm/m (100°)	2.36	2.36	UNE-EN ISO 10545:1997

* Aluminium alloy 5005 available by customer request.

** Check with us for other dimensions.