



TECHNICAL SPECIFICATIONS

STACBOND FR
fire retardant ACP

VER: 02/2023

FR CORE | 4 mm - 0.50 mm

PANEL PHYSICAL SPECIFICATIONS	UNITS	VALUE	NORM
Total thickness	mm	4	
External painted face thickness	mm	0.50	
Internal painted face thickness	mm	0.50	
Panel weight	kg/m ²	7.7±8%	
Visible face aluminium alloy		5000	UNE EN 573-3
Hidden face aluminium alloy		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	

TECH. SPECIFICATIONS OF THE PANEL	UNITS	VALUE	NORM
Peeling	N/mm	≥ 9.80	ASTM D903 - 98 (2004)
Rigidity (EI)	kNcm ² /m	2610	DIN 53293
Resistant Module (W)	cm ³ /m	1.496	
Acoustic insulation Rw (C;Ctr)	dB	33 (-1; -4)	ISO 717-1
Sound Transmission Loss (Rw)	dB	33.30 ± 1.30	
Thermal resistance (R)	m ² k/W	0.0014	
Thermal transmittance (U)	W/m ² k	3.38	UNE-EN ISO 12567-1
Thermal conductivity (λ)	W/mK	0.448	
Operating temperature	°C	- 50 / + 80	

FR CORE SPECIFICATIONS	UNITS	VALUE	NORM
Density	g/cm ³	1.50 ± 0.15	
Fire reaction		B - S1, d0	UNE-EN 13501:2018

ALUMINIUM TECHNICAL SPECIFICATIONS	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	
Elastic limit tension (R _{p0.2})	N/mm ²	≥ 80	≥ 110	EN 485-2
Tensile strenght (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	
Thermal expansion (α)	mm/m (100°)	2.36	2.36	UNE-EN ISO 10545:1997

* Posibilidad de aleación 5005 por solicitud del cliente.

** Consultar para otras dimensiones.