TECHNICAL SPECIFICATIONS

STACBOND A2 non-combustible ACP

VER: 001 / 2023

PANEL PHYSICAL SPECIFICATIONS

Total panel thickness (mm)	Panel weight (kg/m2)
	Thickness of lacquered face of 0.5 (mm)
4	9.30

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

SHEET DIMENSIONS	UNITS	VALUE
Width (min./max.)	mm	800/1600**
Length (min./max.)	mm	2000/6000**
Thickness tolerance	mm	-0.15/+0.1
Width tolerance	mm	-0/+2
Length tolerance	mm	-0/+10
Squareness (diagonal tolerance)	mm	±3
Protective film width tolerance	mm	0;-5

TECH. SPECS. OF THE PANEL	UNITS	VALUE	NORM
Peeling	N/mm	≥3	ASTM D903-98 (2004)
Rigidity (EI)	kNcm2/m	2400	DIN 53293
Resistant module (W)	cm3/m	1.496	
Acoustic insulation Rw (C;Ctr)	dB	29 (-1;-3)	ISO 717-1:2013
Sound reduction Rw	dB	33.3±1.30	
Thermal resistance (R)	m2K/W	0.0168	UNE-EN ISO 12567-1
Thermal conductivity	W/m2K	0.4028	
Thermal transmitance (U)	W/m°C	3.38	
Operating temperature	°C	-50/+80	

CORE SPECIFICATIONS **A2**	UNITS	VALUE	NORM
Density	g/cm3	2.20 ± 0.15	
Fire reaction		A2,s1-d0	UNE-EN 13501-1:2007

ALUMINIUM TECH. SPECIFICATIONS	UNITS	VALUE		NORM
Alloy		5005	3105/3005*	UNE-EN 573-3
		H42/H44	H42/H44	UNE-EN 515
Modulus of elasticity (E)	N/mm2	70 000	70 000	EN 485-2
Proof stress (Rp 0.2)	N/mm2	≥ 80	≥ 110	EN 485-2
Tensile strength (Rm)	N/mm2	125≥ Rm≥ 205	130≥ Rm≥ 215	EN 485-2
Elongation (A50)	%	≥ 3	≥ 4	EN 485-2
Density (ρ)	kg/m3	2,700	2,700	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.