

STACBOND[®] FR

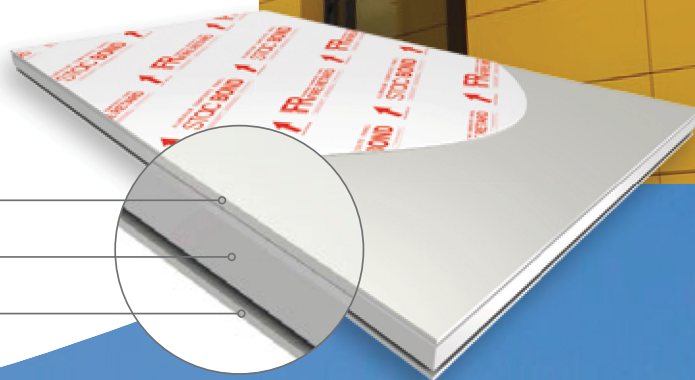
ALUMINIUM COMPOSITE PANEL
FIRE RETARD

The **STACBOND[®] FR** has been developed to comply with the highest demands from the current norms for fire protection. Its internal core consisting of thermoplastic resins (low density polyethelene and fire retardant) has a fire classification of B-S1,d0 according to UNE-EN-13501-1:2007.

0.50 mm aluminium coated PVDF Kynar

Fire Retard Core

0.50 mm aluminium Primer





TECHNICAL SPECIFICATIONS STACBOND®FR

SHEET DIMENSIONS	WIDTHS (mm)	LENGTHS (mm)
Stock sizes	1250 - 1500	4000 - 5000
Made to measure manufacture (CONSULT)	1000 -1250 - 1500	(min.max.) 2000 / 6000

Thickness tolerance (mm) $\pm 0,2$	Width tolerance (mm) ± 2	Length tolerance (mm) $+ 15$	Diagonals tolerance (mm) ± 3
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PHYSICAL SPECIFICATION	UNITS	SIZE	CERTIFICATION
Aluminium thickness	mm	0,5	
Panel thickness	mm	4	
Panel weight	kg/m ²	8,02	
Aluminium alloy		3005 / 3105 / 5005	UNE EN 573-3

FR CORE SPECIFICATION	UNITS	SIZE	CERTIFICATION
Density	gr/cm ³	1,6 - 1,8	
Fire Resistance		B - S1, d0	UNE-EN-13501-1:2007

TYPE OF PAINT	UNITS	SIZE	CERTIFICATION
PvdF KYNAR 500 (70/30)	μ_m	20 - 40 μ_m *	
Brightness	MEASURED AT 60° ANGLE	30 +/- 5 *	EN 13523 - 2
Hardness		Min F	EN 13523 - 4
Priming protection			YES

GENERAL CHARACTERISTICS	UNITS	SIZE	CERTIFICATION
Peeling	N/mm	≥ 7	ASTM D903 - 98 (2004)
Adherence		There is no loss of adherence	EN - DIN - 53151
Elasticity module (E)	N/mm ²	70000	EN 485 - 2
Elasticity limit (R _p 0.2)	N/mm ²	≥ 80	EN 485 - 2
Break loading (R _m)	N/mm ²	$125 \leq R_m \leq 240$	EN 485 - 2
Lengthening (A)	%	≥ 2	EN 485 - 2
Impact resistance		4 Joules / GT0	EN 13523 - 5/6
Chemical resistance		5% HCL Without changes	
Temperature utilization	°C	- 50° / 80° ^a	
Thermal expansion for differences of 100° C	mm/m (100°)	2,36	UNE-EN ISO 10545:1997
Thermal transmission (U)	W/m ² K	5,62	UNE-EN ISO 12567-1
Accoustic insulation Rw [C;Ctr]	dB	29 (0; -2)	ISO 140 - 3

* Standard values, other values can be accepted if the finish so requires it and does not affect the product quality.