

STAC BOND PE

ALUMINIUM COMPOSITE PANEL

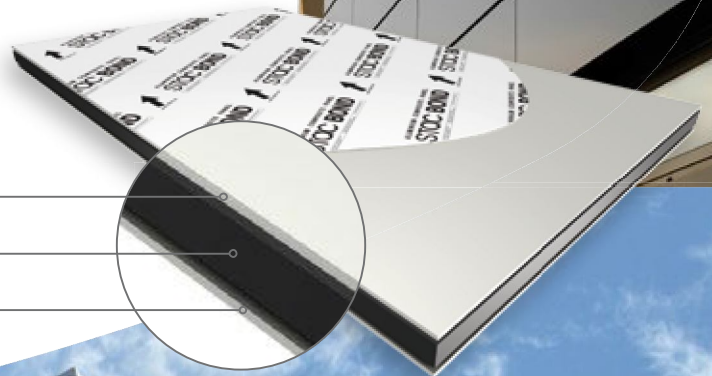
The **STACBOND®PE** with an internal core of thermoplastic resins (low density polyethelene) has excellent mechanical properties, a high degree of accoustic insulation, high impact resistance, increased rigidity and weight reduction and thanks to these characteristics it can be counted on for multiple application possibilities such as:

- Ventilated Façades
- Coverings and false ceilings
- Balconies and cantilevers
- External doors, front doors and canopies
- Urban street furniture equipment
- All types of external fittings
- Industrial applications (automation, railways, furniture, bodywork, etc.).

0.50 mm aluminium coated PVDF Kynar

Polyethelene core

0.50 mm aluminium Primer





TECHNICAL SPECIFICATIONS

STACBOND® PE

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) ± 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	5,5	
Aluminium alloy		3005 / 3105 / 5005	UNE EN 573-3

PE CORE SPECIFICATION	UNITS	SIZE	CERTIFICATION
Density	gr/cm ³	0,92	

TYPE OF PAINT	UNITS	SIZE	CERTIFICATION
PvdF KINAR 500 (70/30)	μ _m	20 - 40 μ _m *	
Brightness	MEASURED AT 60° ANGLE	30 +/- 5 *	EN 13523 - 2 ISO 2813
Hardness		Min F	EN 13523 - 4
Priming protection			YES

GENERAL CHARACTERISTICS	UNITS	SIZE	CERTIFICATION
Peeling	N/mm	≥ 9,8	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 ≤ R _m ≤ 240	EN 485 - 2
Lengthening (A)	%	≥ 2	EN 485 - 2
Impact resistance		4 Joules / GTØ	EN 13523 - 5/6
Chemical resistance		5% HCL Without changes	ISO 2812 - MÉTHOD 3
Temperature utilization	°C	- 50° / 80° ^a	
Thermal expansion for differences of 100° C	mm/m (100° ^a)	2,25	UNE-EN ISO 10545:1997
Thermal transmission (U)	W/m ² K	3,38	UNE-EN ISO 12567-1
Accoustic insulation Rw (C;Ctr)	dB	26 [-1; -3]	ISO 140 - 3

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

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





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) ± 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	ISO 2813
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 _{p0.2})	N/mm ²	≥ 80	EN 485 - 2
Break loading (R _m)	N/mm ²	125 ≤ R _m ≤ 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.

int STAC BOND
DESIGN
ALUMINIUM COMPOSITE PANEL

The **STACBOND®INTdesign** is used principally for the covering of internal spaces (new buildings as well as refurbishments) although there are a multitude of application possibilities such as:

- Decoration
- False ceilings
- Corporate image
- Digital printing
- Signage

0.30 mm aluminium & polyester paint

Polyethelene core

0.3 mm aluminium Primer



SHEET DIMENSIONS	WIDTHS (mm)	LENGTHS (mm)
Stock sizes	1500	3050 -5050
Made to measure manufacture (CONSULT)	1000 -1250	(min.max.) 2000 / 6000

Thickness tolerance (mm) ± 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	0,3	EN 485-4
Panel thickness	mm	3	
Panel weight	kg/m ²	3.85	
Aluminium alloy		3005 / 3105	UNE EN 573-3

INTdesign CORE SPECIFICATION	UNITS	SIZE	CERTIFICATION
Density	gr/cm ³	0,92	

TYPE OF PAINT	UNITS	SIZE	CERTIFICATION
polyester	μ _m	20 - 40 μ _m *	
Priming protection			YES
Hardness		H	
Brightness	MEASURED AT 60° ANGLE	20-90	

GENERAL CHARACTERISTICS	UNITS	SIZE	CERTIFICATION
Peeling	N/mm	≥ 5	ASTM D903 - 98 (2004)
Elasticity module (E)	N/mm ²	70000	EN 485 - 2
Elasticity limit (R _p 0.2)	N/mm ²	≥ 150	EN 485 - 2
Break loading (R _m)	N/mm ²	175 ≤ R _m ≤ 240	EN 485 - 2
Temperature utilization	°C	- 50° / 80 ^a	
Thermal expansion for differences of 100° C	mm/m [100 ^a]	2,3 [theoretical value]	

STANDARD COLOURS	SILVER METALLIC - WHITE RAL9016
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Possibility of manufacturing any colour with width sizes of 1.000, 1.250 y 1.500 mm.
 Minimum order 1,000m². Consult **STACBOND®** T [+34] 981 817 036 stacbond@stac.es