

TECHNICAL DATA

ALUPANEL XT

Alupanel XT is a composite material in sheet format, specially created for architectural applications. It consists of two aluminium plates coated with PuDF and co-extruded on a polyethylene core.

We have several qualities depending on the core:

Alupanel XT: with a PE core, lightweight and easy to install, offers a wide variety of colours and designs.

Alupanel XT FR: with core fire resistance class Bs1d0, adds to its versatility a greater fire resistance.

Alupanel XT A2: maintains ease of handling, folding and installing, with a non-combustible A2 class core.

Alupanel XT is very light and incredibly rigid. It also offers high resistance to all weather conditions, which allows it to be used in both indoor and outdoor applications. Easy handling and assembly allows both folding and milling in a practical and easy way, in addition to it having a limited expansion coefficient.

Alupanel XT is also suitable for digital printing, offering high resistance to ultraviolet radiation. With its quality certified by the EU, Alupanel XT is manufactured in the UK, allowing a fast and efficient supply on a regular basis. In addition, Alupanel XT is offered in a very diverse range of colours, allowing even the manufacture of a specific colour required by the customer for a minimum amount in a short time.

Committed to the environment, Alupanel XT is a 100% recyclable product that complies with current environmental legislation and minimizes toxic emissions during its production.

ADVANTAGES

- Easy installation.
- Uniform and smooth surface.
- Light.
- Easy to manipulate.
- Versatile and easy to fold.
- Great resistance to weather and atmospheric conditions.
- Available in a wide range of colours and finishes.
- Countertype service using RAL, NCS, BS and Pantone references.
- Minimum order can be small quantities.

APPLICATION AREAS

- Architectural applications
- Waterproof coatings.
- Interior design
- Coverings and roofs.
- Coating.
- Canopies
- Petrol stations.
- Commercial facades and stores.
- Stand design
- External advertising.
- Exterior facades.
- Transport.

TECHNICAL SPECIFICATIONS - ALUPANEL XT

Properties	PE Nucleus	FR Nucleus	A2
Panel thickness		4mm	
Aluminum plate thickness		0.5mm	
Alloy		3000 and 5000 available	
Front face finish		Fluoropolymer coating (PVDF)	
Back finish (ECCA T1-EN 13523-1)		Protective lacquer 5 ± 2 μ	
Core	PE	FR	A2
Weight Kg/m ²	5.5	7.44	8.21
Adhesive integrity N/mm ²	12.15	13.05	12.9
Tensile strength Kg/mm ²	5.3	6.0	7.1
Rigidity kN m ² /m	0.354	0.371	0.390
Bending strength Mpa	106	127	138
Elasticity module Mpa	9992	1007	1117
Elastic limit Kg/mm ²	3.7	2.6	3.8
Elongation at break (10=5.65 AO ¹² -%)	19.3	14.1	12.0
Thermic expansion coefficient mm/m°C	2.4 mm/m at 100°C of temperature range	0.101	0.140
Sound attenuation (Rw) dB	24	27	35
Fire rating EN13501-1:2007	D	Bs1d0	A2

Temperature resistance	-50°C a +80°C
Pencil scratch resistance	≥HB
Rapid deformation cracking resistance	does not crack
Cracking on bending resistance (EN 13523-7)	1.5 ≥ T
Salt spray resistance (EN 13523-8)	1000h unchanged
Water immersion resistance (EN 13523-9)	1000h unchanged
Acid resistance (ASTM-D 2247-68)	1000h unchanged
Acid resistance (EN 1396)	class 3
Accelerated weathering (EN 13523-10)	brightness ≥ 10%
Chalking (EN 13523-14)	≥ 10%

Dimensions and tolerances of the sheets

Width	Tolerance	Length	Tolerance
1000	±2mm	3200	±2mm
1220	±2mm	2440/3050	±2mm
1250	±2mm	3200/4000	±2mm
1500	±2mm	3200/4000	±2mm
2000	±2mm	3200/4000	±2mm

The properties described here are typical values of the material. Polimer Tecnic is not responsible for the materials of a specific consignment to exactly match the given values, being able to carry out tests of that heading. The above information is based on our experience and is given in good faith. Due to some installation and processing factors that are beyond our knowledge and control, no guarantee is given regarding such information.