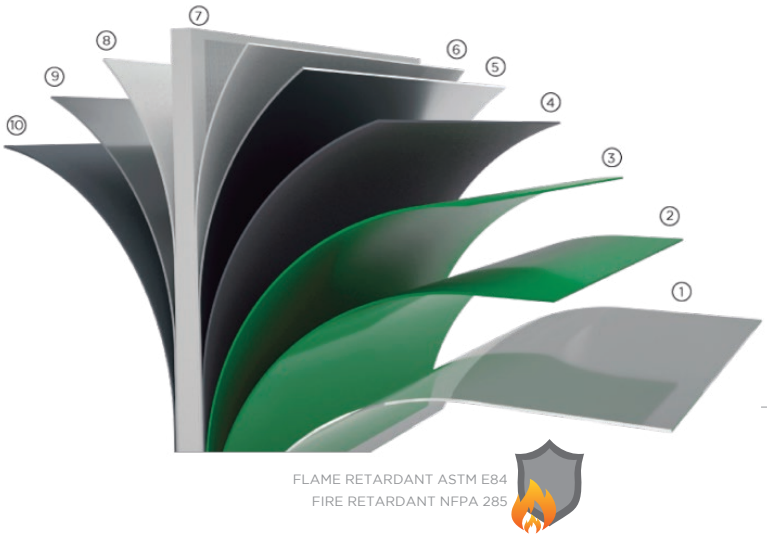
Aluminum Composite Material

With more than **10 years of experience**, Alutec® is a specialist in ACM (Aluminum Composite Material) manufacture.
Due to its structure, Alutec® composite aluminum panels offer great versatility, adapting to any design requirement. It offers a full range of finishes, thicknesses and widths upon request and provides long durability and fast installation.

Our **Alutec**® panels are certified and guaranteed under the American Society for Testing and Materials (ASTM) international standards, have a fire retardant mineral core (FR) and are coated with Kynar® PVDF resin which guarantees the quality of the material for more than 20 years even if exposed to UV light.

Alutec® combines high technology, functionality, cleanliness and resistance.
It is a composite material consisting of two aluminum sheets bonded to a low density polyethylene (LDPE) layer and a flame retardant mineral (FR) core which limits the production of smoke in case of fire. Additionally, its transparent PVDF layer, provides high resistance to weather and UV exposure.

Composition



FLAME RETARDANT ASTM E84
FIRE RETARDANT NFPA 285

① Protective film
② PVDF light layer
③ PVDF main layer
④ Anticorrosive paint layer
⑤ Aluminum layer
⑥ Bondeo layer
⑦ Mineral core - FR (flame retardant)
⑧ Bondeo layer
⑨ Subsequent aluminum layer
⑩ Anticorrosive layer / primer

Availability

	COLORS	CODE	PAINT FINISH	ALUMINUM THICKNESS	TOTAL THICKNESS	SIZE INCHES	WEIGHT
BASICS	Soft White	SWT	PVDF	0.50	4 mm	62"/196"	124.61 Lb
	Sand Gray	SGR					
	Light Gray	LGR					
	Deep black	DBK					
	Black	BLK					
	White	SAX					
	Red	RED					
	Clay	CLY					
	Platinum	PLM					
	Silver Metallic	SMX					
	Bronze	BRZ					

FIRE RETARDANT · Intertek · ISO 9001:2015 · KYNAR 500 finishes

Retsis.us
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GENERAL PROPERTIES

PROPIERTIES	STANDARD	RESULT
Resistance to the outer temperature	ASTM D1654	No abnormality
Thermal expansion	ASTM D696	3.0 X 10 -5 / °C
Thermical temperature of deformithy	ASTM D648	115 °C
Thermal conductivity	ASTM C976	0,102 kcal /m.hr °C
Rigidity of flexion	ASTM C393	14 X 10^5
Impact resistance	ASTM D2794	≥ 50 kg / cm
Adhesion Force	ASTM D903-98	10 kgf / mm
Isolation rank by sound	ASTM E413	29 dB
Flexural Elasticity	ASTM D790	4055 kg / mm^2
Cutting resistance	ASTM D732-99	≥28 MPa
Minimal flexural stress	ASTM D790	(LO) 45 mm (PO) 70 mm
Non propagation of fire	ASTM E84	Certified
Develope smoke	ASTM E84	<45
Wind Pressure Resistance	ASTM E330	Approved
Water resistant	ASTM E331	Approved
Air Resistance Properties	ASTM E283	Approved

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