

Technical Data Sheet ETALBOND FR

ETALBOND FIRE RESISTANT COMPOSITE ALUMINIUM FAÇADE PANEL

TECHNICAL DATA

etalbond® consists of a Fire Resistant core, contained between two aluminium skins. For more than 20 years etalbond offers excellent solutions in the field of architecture applications. etalbond® has outstanding product properties such as flatness, durability, formability and can be offered in a wide variety of colours and dimensions..

Factory of Origin :ELVAL COLOUR Saint Thomas, Viotia, Greece

Panel Thickness	mm	4	6
Aluminium layer thickness	mm	0.5	0.5
Etalbond weight	Kg/m2	7.6	10.9
Maximum Standard Width	mm	1250,1500	
Standard Length	mm	(Max 13000) std 3200	
Fire Classification	EN13501-1	B,s1,d1	

Tolerances

Panel Thickness	mm	0.2
Panel Width	mm	-0.00 / +4.00
Panel Length	mm	<4000 mm : -0.0 / +4.00 4001 – 6000 mm: -0.0 / +6 6001 – 8000 mm: -0.0 / +10
Diagonal Difference	mm	3.00 mm

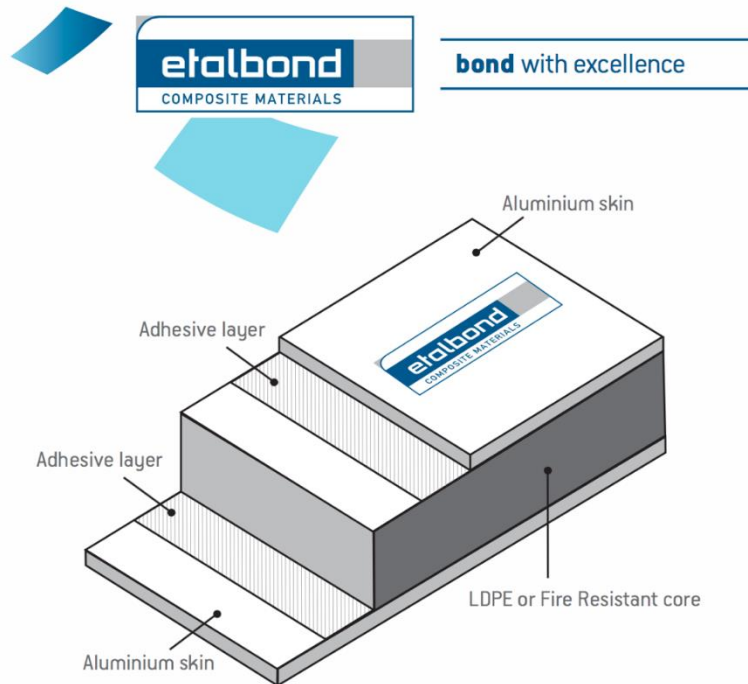
Technical Properties

Section modulus (W)	DIN 53293	cm3/m	1.75	2.75
Rigidity (Ex I)		kNcm2/m	2400	5900
Alloy	EN 573-3		EN AW 3105	
Temper of Aluminium sheets	EN515/EN1396		H44 (Painted)	
Modulus of Elasticity (E)	EN 1999 1-1	N/mm2	70000	
Tensile strength	EN1396	N/mm2	>150	
Yield strength	EN1396	N/mm2	>120	
Elongation	EN1396	%	>3%	
Linear Thermal Expansion	EN 1999 1-1	mm / m	2.4 for temperature difference of 100 degrees C	

Mineral filled polymer Core

Surface Preparation and Paint Characteristics

Surface Preparation	With chemical preparation (Degreasing, Chromatisation)		
Lacquering	Coil Coating		
Visible Surface	PVDF - 3 Paint thickness 33um, Tolerances according to En 1396 PVDF - 2 Paint thickness 30um, Tolerances according to En 1396 VHDPE - Paint thickness Target 25um, Tolerances according to En 1396		
Back Surface	Protective Primer		
Temperature Behaviour	Excellent behaviour From -50degrees C to 80+degrees C		
Surface Quality	Dents,marks,hits, grooves, stains acceptable when not visible at a distance >2m and angle of 90degrees		
Elongation	EN1396	%	>3%



Optional Coatings / Finishes

Agraphon

A special treatment of coated Aluminium materials with anti-graffiti properties, factory-applied transparent coating to all Elval materials that preserves the colour and appearance of chosen façade material.

Arypon

A permanent treatment of coated Aluminium materials that enables Easy to Clean surfaces with the help of nano technology. These fluropolymers react with the coating surface to create a low energy surface that can be cleaned easily.

Abacton

A certified coating based on silver Ions which capture bacteria. *Only suitable for internal applications.*

Phosphorescent Coatings

A specially developed, innovative highly durable polyurethane coating that glows intensively in low light. Used in applications of limited light or emergency transit areas.