



A cladding creative material

etalbond® consists of a non toxic polyethylene/fire retardant 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.

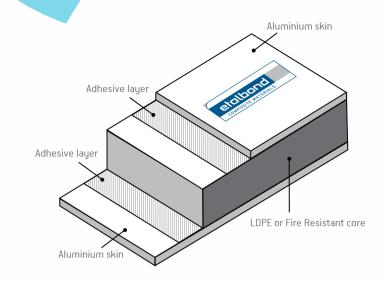






Composition

Protective plastic film
High Quality Coating System
Aluminium (Alloy EN 3105, Temper H44)
Adhesive layer
Polyethylene / fire retardant*
Adhesive layer
Aluminium (Alloy EN 3105, Temper H44)
High Quality Coating System or Primer coating
*according to SBI-EN 13823 CLASS.EN 13501 B₁, S₁, d₀



Colour appearance and design

Being one of the leading coating companies in Europe with an output of more than 30 million m² produced in 4 coating lines, with over 30 years experience, Elval Colour is able to create many opportunities for all fields in architectural engineering.

etalbond® products are available in various colours presenting a wide selection for the realisation of your ideas. etalbond® multilayer paint systems, offer advanced resistance to aggressive weather conditions, polluted environments and UV-radiation.

Combining surface endurance with workability,
etalbond® can adapt to any desired shape, independent of its complexity, using standard techniques (including roll bending, routing, folding) and others.

AREAS OF ARCHITECTURAL ENGINEERING:

- Ventilated claddings
- Corporate identity
- Roofing applications and edgings
- Ceilings
- Signage and advertising
- Exhibition stands
- Industrial applications







ELVAL COLOUR SUPPORT SYSTEMS

Elval Colour provides specially designed support systems for the easy installation of etalbond panels on the various building facades applications.



etalbond® characteristics

etalbond® composite panel is the ideal material for projects exposed to highly demanding environments, offering the flexibility to be used in various architectural and printing applications.

Flatness: superior flatness in respect to other solid aluminium sheets.

Rigidity — light weight: Due to our sandwich technology our composite panels out performs other materials with regards to needed substructure and design capabilities.

Formability: Due to its excellent formability etalbond® can easily be shaped in many forms, always retaining its high durability and flatness.

ECO — Friendly: Both aluminium skins and the core are 100% recyclable.

Dimensions: Thickness between 3-6mm

Width between 1000mm-2000mm

Length maximum 13000mm



PROCESSING - ROUTING - FOLDING

Due to its adaptability etalbond® can be shaped by means of simple processing techniques. This procedure, the routing and folding technique, enables a variety of shapes and sizes to be manufactured. After having routed the material (one side) the untouched outer cover sheet can be bent manually giving an exact folding and clean folding line which follows the routed groove.

All standard machinery devices can be used for the following pictogram below.



CUTTING & SAWING



DRILLING



PUNCHING



CONTOUR MILLING



JOINING & FIXING TECHNIQUES



BENDING - FORMING













Whether a project is taking place in a town centre, with high smog exposure, or close to coastal areas, with high levels of salt and humidity, the surface of the material is subject to the risk of rapid fading or oxidisation.

etalbond® surface is available in high quality coatings such as Very high durability polyesters (VHDPE), PVDF-2, 3 and 4 Layers and Lumiflon. In each case the coating process follows the most appropriate specification according to ECCA (European Coil Coating Association) and AAMA (American Association of Manufacturers) Standards. Paint coating tests meet the ECCA testing requirements and the entire production process is ISO 9001 - 2008 and ISO 14001 certified.





Technical data sheet etalbond-PE

Panel etalbond-PE thickness	mm	3	4	6		
PANEL DIMENSIONS						
Aluminium Thickness	mm	0.5	0.5	0.5		
Panel Weight	Kg/m ²	4.6	5.5	7.3		
Panel Width	mm	(MIN 1000 - MAX 2000) std 1250, 1500				
Panel Length	mm	1000 - 11000				
ALUMINIUM MECHANICAL PROPER	RTIES					
Elongation A50	≥ 4%					
PANEL CHARACTERISTICS						
Rigidity (EJ)	KNcm ² /m	1250	2400	5900		
ALUMINIUM ALLOY		AL 3105 / H44 (Painted)				
TEMPERATURE RANGE						
Operational Temperature Range		From -50°C to +80°C				
ACOUSTICAL PROPERTIES						
Sound Transmission Loss (Rw)	dB	25	26	27		

Technical data sheet etalbond-fire retardant

Panel etalbond-FR thickness	mm	4	6			
PANEL DIMENSIONS						
Aluminium Thickness	mm	0.5	0.5			
Panel Weight	Kg/m ²	7.6	11.0			
Panel Width	mm	(MIN 1000 - MAX 2000) std 1250, 1500				
Panel Length	mm	std 3200 MAX 13000				
ALUMINIUM MECHANICAL PROPERTIE	:S					
Elongation A50	≥4%					
PANEL CHARACTERISTICS						
Rigidity (EJ)	KNcm ² /m	2400	5900			
ALUMINIUM ALLOY		AL 3105 / H44 (Painted)				
TEMPERATURE RANGE						
Operational Temperature Range		From -50°C to +80°C				
MECHANICAL PROPERTIES						
Tensile Strength (Rm)	N/mm ²	≥150				
Yield Strength (RP0.2)	N/mm^2	≥120				
Elongation	%	A5	0 ≥3			
Linear Thermal Expansion:		2,4mm/m for a 100°C temperature difference				



Elval Colour is a leading European manufacturer in the architectural coated metal products field.
Established in 1981 as subsidiary of ELVAL S.A., which is a division of the VIOHALCO Group, it operates 4 liquid coating lines and a powder coating line with capacity to paint in excess of 30 million m² per year.

Besides the coating facilities, Elval Colour also produces metal composite materials, perforated and corrugated sheets to fulfill all building envelope market requirements.



100% Recyclable material Respects the environment

ELVAL COLOUR

3rd km. Inofyta Peripheral Rd., 32011, Saint Thomas, Viotia, Greece tel: +30 22620 53564, fax: +30 22620 53581

ecs@elval.vionet.gr

www.elval-colour.com

Power to imagine

CUSTOMERS LINE:

+30 22620 53 594

