

# ALPOLIC™

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WORLD FIRST:  
ALPOLIC™ A1



 MITSUBISHI CHEMICAL

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## WITH 5-FOLD SAFETY IN FAÇADE CONSTRUCTION

ALPOLIC™ – this means fivefold safety when it comes to aluminium composite panels for sophisticated façade design. Discover all the points that speak in our favour and put your trust in the quality and safety of a strong brand for your future projects.

### SUSTAINABILITY

On the basis of our unique KAITEKI philosophy we make our contribution daily for a safe and sustainable future. This means, for example, that all the materials we use are 100% recyclable. In addition, the positive ecological balance of our aluminium composite panels has been certified in the form of an Environmental Product Declaration (EPD).

### GLOBAL MARKET LEADER

ALPOLIC™ represents 49 years of know-how and experience in the development and manufacture of aluminium composite panels. As the global market leader, our name stands for the safety of innovative, high-quality products and for perfect service.

### FIRE SAFETY

When it comes to maximum fire safety, ALPOLIC™ allows nothing to burn. We have already proved this in countless international tests. ALPOLIC™ A1 are the world's first aluminium composite panels to be classified according to EN 13501-1, fire protection class A1. ALPOLIC™ also sets standards here.

### QUALITY GUARANTEE

Without doubt, ALPOLIC™ is always the first choice as far as protecting the façade from atmospheric influences, corrosion and scratches is concerned. And this will also be written down for you in black and white. With a quality guarantee of up to 20 years.

### A VARIETY OF DESIGNS AND COLOURS

ALPOLIC™ offers architects and fabricators the reliability of the greatest variety of designs and colours on the market. Whether trend colours, surface designs or genuine metals – our portfolio allows an unlimited creative freedom.



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WITH THE  
KNOW-HOW  
OF A  
GLOBAL  
MARKET  
LEADER

**Flat surfaces, weather resistance, easy processing and a limitless variety of designs and colours - these and many other quality features characterize ALPOLIC™ aluminium composite panels.** Our company was founded in Japan in 1971 and today we are a brand of the Mitsubishi Chemical Corporation. Customers around the world appreciate our high production quality and short delivery times. With an annual production quantity over 10 million m<sup>2</sup> worldwide we are currently one of the global leader in our sector.

In the last decades, we have developed into the trendsetter in façade design. Numerous milestones underline our high innovative strength: our genuine metal surfaces in a continuous coil coating process, the A2 classification, our patented LUMIFLON™ FEVE coating and most recently: the world's first aluminium composite panel in A1. Since 2014, we have also been operating in the European market. At our site in Wiesbaden in Germany we currently have an annual production capacity of around 1,5 million m<sup>2</sup> aluminium composite panels.

## WITH FIRE SAFETY THAT SETS STANDARDS

**In building envelopes, ALPOLIC™ is a byword not only for fascinating design and top quality but also for the greatest possible fire safety.** Because protecting human life has top priority for us. Our products are therefore put through the toughest fire tests. The results flow directly into our product development, which we are continuously adapting to the safety requirements of the respective countries in close consultation with authorities at national and European levels.

ALPOLIC™ has the main General Construction Approval in Europe, Bauzulassung in Germany, Avis Technique in France or BBA in UK. With respect to its fire behaviour, our façade material has also been tested according to European fire protection standard EN 1350-1.

Our aluminium composite panels are available in three material versions, which differ in their fire protection classification according to EN 13501-1. ALPOLIC™ /fr with flame-retardant mineral polymer core corresponds to class B-s1, d0 (flame-retardant). ALPOLIC™ A2 with a non-combustible mineral core corresponds to class A2-s1, d0. Even more safety is offered by our product innovation ALPOLIC™ A1 (non-combustible), currently the only composite material classified for the highest fire protection class A1 - thus an ideal sustainable alternative to façade materials made of metal or other claddings.

In UK we tested by BRE (Building Research Establishment) within the framework of a test series according to BS 8414-1, in which ALPOLIC™ composite panels were tested in 15 assemblies until now according to BR 135 criteria. Complete ventilated façade systems consisting of façade panels, fire barriers, insulation materials and sub-constructions were tested in different versions.

### Classification of fire behaviour

ALPOLIC™ product reference	Examination after / Classification				General	Portion of combustible ingredients within the core material	Heat potential of the core material
	EU	DE	UK	FR			
A1	EN 13501-1, A1				„Non-combustible“ „no smoke development“	≤ 5% 	≤ 1 MJ/kg
A2	EN 13501-1 A2-s1, d0	DIN 4102-1 A2-s1, d0	BS 8414-1 BR 135 classified	M0	„Non-combustible“ „Limited-combustible“ (UK)	≤ 10% 	≤ 3 MJ/kg
FR	EN 13501-1 B-s1, d0	DIN 4102-1 B-s1, d0	BS 8414-1 BR 135 classified	M1	„Hard to burn“	≤ 30% 	≤ 14 MJ/kg

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# WITH AN UNLIMITED VARIETY OF DESIGNS AND COLOURS

**ALPOLIC™ inspires architects and façade designers to conjure up ever new creations.** That is because our portfolio comprises more than 200 colours, patterns and gloss grades – you will not find a greater variety of designs and colours on the market. The range extends from solid colours, matt variants, metallic, sparkling, prismatic and premium aluminium hairline through to genuine metal. Our worldwide references, consisting of outstandingly designed building envelopes, reflect our high design standards.

But that is not all: As a trendsetter, ALPOLIC™ is also continually breaking new ground in terms of technology. As a result, we are also a supplier that manufactures genuine metal surfaces, e.g. titanium, zinc, stainless steel or reAL anodised aluminium.

Discover the whole ALPOLIC™ variety of colours and designs on our website. Or request our original colour samples:

- Colour Chart Classic
- Colour Chart reAL anodised
- Colour Chart Colour the World
- Colour Chart Pattern the World

Find out more: [www.alpolic.eu](http://www.alpolic.eu)



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## WITH A QUALITY GUARANTEE OF UP TO 20 YEARS

**When it comes to quality we accept no compromise.**

The best example of this is our high-quality LUMIFLON™ surface coating. ALPOLIC™ is currently the only brand that uses transparent fluoropolymer-based resin (FEVE) for the protection of aluminium composite panels.

And for a good reason that is: LUMIFLON™ is extremely weather-resistant and UV-stable and it protects against scratches, corrosion and acid. Therefore, ALPOLIC™ façades remain colourfast and look as brilliant as on the first day, even after decades.

Advantages that pay off for our customers: due to low maintenance costs and with a quality guarantee of up to 20 years.



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## WITH EXEMPLARY SUSTAINABILITY

**ALPOLIC™ aluminium composite panels are manufactured using the coil-coating process and in accordance with the strictest safety and environmental requirements.** Throughout the production process the brand follows the KAITEKI philosophy, an original concept of the Mitsubishi Chemical Corporation. This involves a sustainability programme that promotes environmentally friendly production methods and a respectful use of resources.

With success: Today, all materials used for ALPOLIC™ aluminium composite panels, as well as production wastes, are 100% recyclable.



The positive ecological balance of the ALPOLIC™ aluminium composite panels is also certified in the form of an EPD (Environmental Product Declaration). This was drawn up on the basis of EN 15804 and ISO 14025 and contains all relevant information on the use of energy and resources. It proves the sustainability of the products from the cradle to the factory gate (cradle-to-gate) and serves as a basis for a sustainability assessment of building.

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## Recycling

Our materials are 100% recyclable.  
Even waste from ALPOLIC™ plants  
is collected and recycled.

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## Certifications



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