

# ALPOLIC™ SETTING THE GLOBAL STANDARD IN NON-COMBUSTIBLE FAÇADE PANELS

Revolutionary Fire Safety for High-Rise Architecture

City Road | London, UK

## Proven Superior Performance:



### ALPOLIC™ NC/A1 vs Traditional 3mm Solid Aluminium

- Only 6kg residual material vs 46kg standard
- Maximum fragment size: 100g vs 19.5kg
- BBA and CWCT Tested - First of its kind
- EN 13501-1 Fire Classification A1



ALPOLIC is available  
on NBS Source



CWCT  
System Tested

## Fire resistance of ALPOLIC™ NC/A1 vs. solid aluminium

### Tests confirm:

Our ALPOLIC™ NC/A1 composite panel has a significantly higher fire resistance.



## Safe is safe: large scale fire performance tests.

Fire behaviour of ALPOLIC™ NC/A1 was tested in numerous large scale fire performance tests by internationally accredited laboratories.



# ALPOLIC™ PIONEERING FIRE SAFETY IN ARCHITECTURE FOR OVER 50 YEARS!

## About ALPOLIC™

For more than 50 years, ALPOLIC™ - a brand of the Mitsubishi Chemical Group - has been developing pioneering solutions that fulfil all fire protection requirements, increase the safety of buildings and thus protect health and lives. Our product portfolio consists of 3 types of laminated panel with a variation of cores; these are either flame-retardant (FR) to EN 13501-1 (B-s1-d0) or non-combustible (A1 / A2-s1, d0), Geo Mineral cores.

With 3 Manufacturing sites in Japan, USA and Germany. Working Globally with dedicated local expertise and project support.

## The world's first A1 fire-rated aluminium panel

### Revolutionary Geo Mineral core technology

Ensuring superior fire safety performance with BS8414 Testing that supersedes Solid Aluminium Panels. With the Geo Mineral core which not only enhances the deformation behaviour of the panel, but it also outperforms solid aluminium sheets in fire scenarios. Specifically, in the event of a fire, the panel remains stable for a longer period and falls in smaller quantities and lighter pieces, providing better safety performance. Combustibility tested with only 6kg of residual material vs 46kg generated from 3mm Aluminium sheet.

## The only BBA and CWCT Tested A1 Façade Panel of its type

### High rigidity and superior flatness

ALPOLIC™ NC/A1 is more capable of bearing loads than traditional 2 or 3mm Pre-Coated or Powder-Coater Solid Aluminium panels with superior rigidity achieving larger spans with less weight. This combination allows for improved fabrication capabilities and reduces the cost of fixings, allowing a faster and more efficient installation.

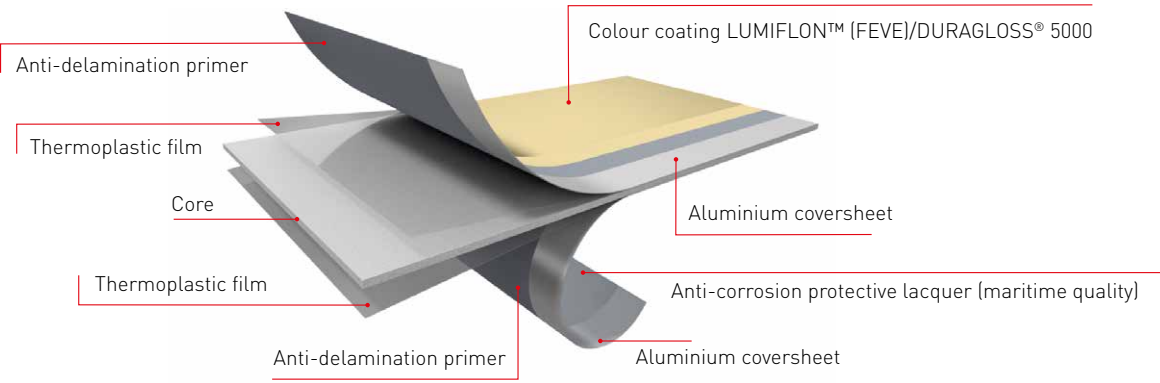
## A sustainable fire-safe façade solutions

ALPOLIC™ are committed to protecting the environment with an EPD (Environmental Product Declaration) and a recycling plant in house. Additionally for remedial works, ALPOLIC™ can offer a sustainable take-back program for removed ACM PE panels, ensuring responsible recycling and disposal, while providing a certified, fire-safe replacement with ALPOLIC™ NC/A1 or A2.

### Get in touch with us:

We are committed to educating and inspiring the UK Façade market on cladding and Architectural Fire Safety needs. Providing free CPD's to Architects and collaborating with fabricators and installers ensuring best practice.

Technological breakthrough: 2021 launch of ALPOLIC™ NC/A1 the world's first composite material with the highest fire classification A1 according to EN 13501-1.



## More than just non-combustible

ALPOLIC™ NC/A1 achieves **fire resistance class E15 according to EN 13501-2.**

- ✓ Resists fire exposure exceeding 750°C – above the melting point of aluminum
- ✓ Remains flame- and gas-tight for 15 minutes
- ✓ Contains fire within compartments – **no flame penetration.**

ALPOLIC™ – where fire protection sets new standards.

## Performance Advantages

- ✓ Superior rigidity and stress management
- ✓ Marine-grade quality as standard
- ✓ Sustainable recycling program
- ✓ Lower CO<sub>2</sub> footprint
- ✓ Infinite colour and design possibilities
- ✓ Faster fabrication and installation
- ✓ Superior flatness

## Technical Excellence

- ✓ Panel Width: 1,250mm | 1,500mm
- ✓ Length: 1,800mm - 7,300mm
- ✓ Non-combustible geo mineral core
- ✓ LUMIFLON™ (FEVE) coating system
- ✓ Up to 30-year warranty\*

## Fire residues from ALPOLIC™ NC/A1



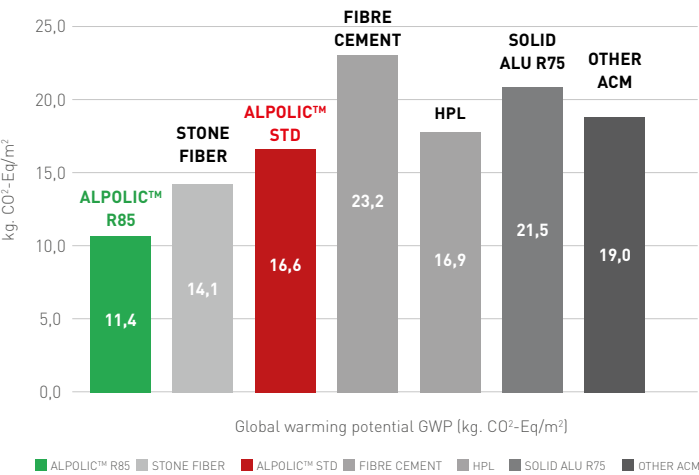
## Fire residues from solid aluminium



## Ecologically superior

A comparison of ALPOLIC™ composite panels with products from other European manufacturers per square metre shows that both ALPOLIC™ standard and R85 products produce 40% less greenhouse gas emissions during their manufacture.

- ✓ EPD certified
- ✓ Reusable
- ✓ Less CO<sub>2</sub> emissions
- ✓ Low-maintenance
- ✓ Easy to dismantle
- ✓ Durable – up to 70 years
- ✓ Almost 100% recyclable
- ✓ Up to 50% less Substructure



# TRANSFORM YOUR ARCHITECTURE WITH ALPOLIC™ NC/A1. WHERE BUILDING SAFETY MEETS SUSTAINABILITY



**SUPPORTED EXCLUSIVELY in the UK & IRELAND by PCS Ltd  
(Pro Composite Solutions)**

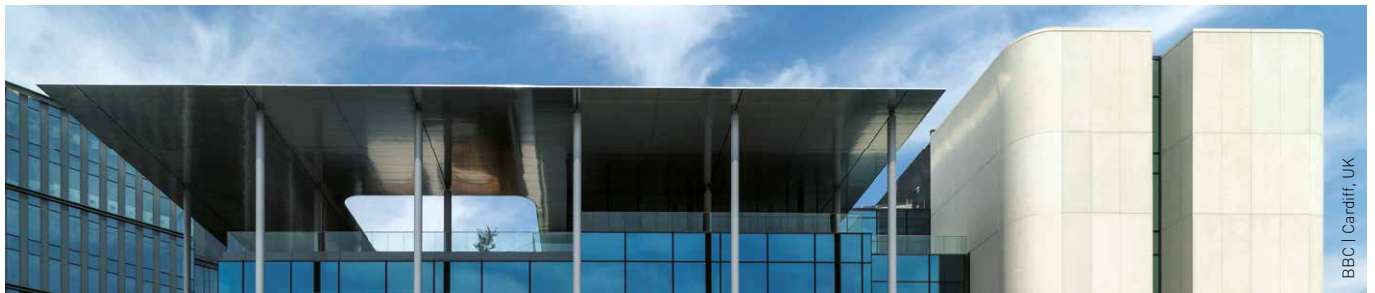
## 15+ Years of Industry Excellence Specialist Aluminium Solutions Provider

- Technical Consultation
- Product Training and CPD's
- Full Project Support
- Machining Applications Support

## For more information contact Your ALPOLIC™ Specialists:

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**[www.procompositesolutions.com](http://www.procompositesolutions.com)**

\*Terms and conditions apply. Contact PCS Ltd for full warranty details.



BBC | Cardiff, UK

## ALPOLIC™ – the world's first address for aluminium composite panels



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

### Certifications



Trademark of AGC Chemicals,  
Asahi Glass Co., Ltd.



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