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3A Composites GmbH
78221 Singen, Germany
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info.eu@alucobond.com

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• Large variety of panels
• Partnerships with leading distributors
• Professional sales teams

Country Test according to...

- Classification
  - EU EN 13501-1 Class A2, s1, d0
  - Germany DIN EN 13501-1 Class A2, non-combustible
  - Austria ÖNORM A 3800 Class A, non-combustible
  - Czech Republic CSN 73 0862 Class A
  - Scandinavia DS 1065.1 (NT Fire 004) Class A, non-combustible
  - France NF P 92-501, NF EN ISO 1716 Class M0, non-combustible
  - Italy CSE RF 1/75/A, RF 3/77 Class 1
  - Switzerland VKF Fire regulations Class 6q.3, non-combustible
  - UK BS 476, Part 6
  - BS 476, Part 7
  - BS 6853
  - BS EN 13501-1

Index
- 0    Class 0
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Building Regulations
Meets the requirements of the London Underground Ltd. Code of Practice for Fire Safety

Limited combustible
Non-combustible (Scotland)

Russia
- GOST 30244-94
- GOST 30402-95
- GOST 12.1.044-89
- GOST 12.1.044-89

Class G 1 (combustibility)
Class W 1 (flammability)
Class D 1 (smoke emission)
Class T 1 (smoke flammability)

Japan
- JIS A 1231
- JIS A 1321
- QNC

Class 2

Malaysia
- BS 476, Part 5
- BS 476, Part 6
- BS 476, Part 7

Class P

Approved for outdoor wall cladding of any type of building without height limit.

Singapore
Approved for outdoor wall cladding of any type of building without height limit.

USA
- UBC 17-5
- ASTM E-84
- ASTM D-2015

passed
UBC Class I
509 BTU/Ib

THE ONLY NON-COMBUSTIBLE COMPOSITE PANEL
... for more structural safety

One-side stove-lacquered
Thickness 4 mm (3 mm*)
Width 1 250 mm
1 500 mm
Length up to 8 000 mm

Dimensional tolerances
- Thickness ±0.2 mm
- Width -0 / +4 mm
- Lengths 1 000–4 000 mm -0 / +6 mm
- Lengths 4 001–8 000 mm -0 / +10 mm

Non-combustible
Let your imagination run free

More than ever before, innovative and sustainable materials are in constant demand for realizing the creative visions of successful architects and designers. The buildings of the future do not only have to comply with the highest demands on design; they also have to meet the latest technical requirements: sustainability, energy efficiency, noise protection, fire protection, etc. With the ALUCOBOND® A2 aluminium composite panel, ALCAN COMPOSITES offers a building material that combines a creative appearance and the ultimate technological demands in the best possible way.

ALUCOBOND® A2 is the only non-combustible aluminium composite panel used in architecture worldwide. Due to its mineral-filled core ALUCOBOND® A2 meets the highest requirements of the fire regulations and is therefore the ideal material for all areas where fire protection plays an important role – be it for high-rise or industrial buildings, public buildings, hospitals, hotels, tunnels or underground stations. Furthermore, with its proven product and processing properties, ALUCOBOND® A2 offers architects and designers unlimited opportunities for realizing their visions.
Let your imagination run free

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The advantages of ALUCOBOND® A2

- Lightweight, flawless strength, perfect finish – low cost for substructures and business, smooth handling on site
- Long life span – weatherproof, easy to clean
- Noise and vibration-damping – no additional sound damping needed
- Simple processing – can easily be folded and bent using common tools
- Large panel sizes, fast installation, pre-fabricated panels – short construction times, adherence to schedules, low cost
- Wide range of colours – unlimited planning and design
- Recyclable, environmentally friendly – scrap can be recycled and used for the production of new material
- ALUCOBOND® A2 has a non-combustible core and therefore generates no harmful gases in case of fire – also suitable in areas with fire risk and difficult access for the fire brigade

Fire behaviour

ALUCOBOND® A2 composite panels are not inflammable and do not actively contribute to combustion. Siting to the fire of ALUCOBOND® A2 composite panels, no environmentally hazardous substances are set free at any time and no toxic fumes are developed in the case of fire.

Wind load and permissible panel sizes

The graphs for 3 mm and 4 mm thick ALUCOBOND® A2 indicate the maximum permissible panel length (without need for stiffeners) based on the applicable design wind load and panel width (permissible stress = 51 N/mm²). The values apply to panels supported on four sides. Values for other systems on request.

Unlimited applications – for interiors and exteriors

- High-rise buildings
- Industrial buildings
- Public buildings
- Tunnels
- Airports
- Hotels
- Hospitals
- Shopping centres
- Sports stadiums
- Event halls
- Railway and underground stations

The advantages of ALUCOBOND® A2

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The only non-combustible aluminium composite panel used in architecture world-wide.
Let your imagination run free

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The advantages of ALUCOBOND® A2

• Lightweight, flexural strength, perfect flatness – low cost for substructures and fasteners, smooth handling on site
• Long life span – weatherproof, easy to clean
• Noise and vibration-damping – no additional sound-damping needed
• Simple processing – can easily be folded and bent using common tools
• Large panel sizes, fast installation, pre-fabricated panels – short construction times, adherence to schedules, low cost
• Wide range of colours – unlimited planning and design
• Recyclable, environmentally friendly – scrap can be recycled and used for the production of new material

ALUCOBOND® A2 has a non-combustible core and therefore generates no harmful gases in case of fire – also usable in areas with fire risk and difficult access for the fire brigade.

Unlimited applications – for interiors and exteriors

• High-rise buildings
• Industrial buildings
• Public buildings
• Tunnels
• Airports
• Hotels
• Hospitals
• Shopping centres
• Sports interfaces
• Sports halls
• Railway and underground stations

Wind load and permissible panel sizes

The graphs for 3 mm and 4 mm thick ALUCOBOND® A2 indicate the maximum permissible panel length (permissible panel width see chart below) based on the applicable design wind load and panel width (permissible stresses: 51 N/mm²). The values apply to panels supported on four sides. Values for other systems on request.

<table>
<thead>
<tr>
<th>Zone</th>
<th>3 mm</th>
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<tbody>
<tr>
<td>Wind load, kN/m²</td>
<td>Permissible panel length L in mm</td>
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<table>
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<tr>
<th>Panel width</th>
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<tr>
<td>1,750 mm</td>
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<tr>
<td>2,000 mm</td>
<td>1,000</td>
</tr>
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</table>

*Safety factor 1.75 already taken into account
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International approvals and fire classifications

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<th>Test accord to ...</th>
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Range of products

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<tr>
<td>Width</td>
<td>-0 / +4 mm</td>
</tr>
<tr>
<td>Length</td>
<td>4000-8000 mm</td>
</tr>
</tbody>
</table>

*Special sizes on request
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International approvals and fire classifications:

- EU EN 13501-1 Class A2, s1, d0
- Germany DIN EN 13501-1 Class A2, non-combustible
- Austria ÖNORM A 3800 Class A, non-combustible
- Czech Republic CSN 73 0862 Class A
- Scandinavia DS 1065.1 (NT Fire 004) Class A, non-combustible
- France NF P 92-501, NF EN ISO 1716 Class M0, non-combustible
- Italy CSE RF 1/75/A, RF 3/77 Class 1
- Switzerland VKF Fire regulations Class 6q.3, non-combustible
- UK BS 476, Part 6, 7, BS 6853, BS EN 13501-1

Classifications:

- Index 0    Class 0
- Class 1    Building Regulations
- Meets the requirements of the London Underground Ltd. Code of Practice for Fire Safety
- Limited combustible
- Non-combustible (Scotland)

- Russia GOST 30244-94
  GOST 30402-95
  GOST 12.1.044-89
  G 1 (combustibility)
  W 1 (flammability)
  D 1 (smoke emission)
  T 1 (smoke flammability)

- Japan JIS A 1231
  JIS A 1321
  QNC
- Class 2

- Malaysia BS 476, Part 5, 6, 7

- Approved for outdoor wall cladding of any type of building without height limit

- Singapore Approved for outdoor wall cladding of any type of building without height limit

- USA UBC 17-5
  ASTM E-84
  ASTM D-2015
  passed
  UBC Class I
  509 BTU/Ib

Basic data:

- One-side stove-lacquered
- Thickness 4 mm (3 mm*)
- Width 1 250 mm, 1 500 mm
- Length up to 8 000 mm

Dimensional tolerances:

- Thickness ±0.2 mm
- Width -0 / +4 mm
- Lengths 1 000–4 000 mm -0 / +6 mm
- Lengths 4 001–8 000 mm -0 / +10 mm

THE ONLY NON-COMBUSTIBLE COMPOSITE PANEL

*Special sizes on request.