

ALUCOLUX[®]

A1 RATED NON-COMBUSTIBLE SOLID ALUMINIUM SHEET

All you need to know about our solid aluminium sheet



ALUCOLUX®

ALUCOLUX®

The Product

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THE PRODUCT

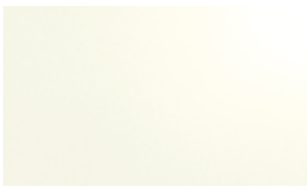
3A Composites, manufacturer of ALUCOBOND® and ALUCORE®, now offers coil-coated and real anodised solid aluminium sheets – ALUCOLUX®.

ALUCOLUX® provides a non-combustible solution featuring:

- High quality PVDF/FEVE coatings produced on a continuous coating line that provides consistency and longevity across the surface. Coating process conforms to AAMA 2605 and ECCA guidelines.
- Highest quality real anodised surfaces in accordance with DIN 17611.
- Fire class: A1, non-combustible in accordance with EN 13501-1.
- ALUCOLUX® available in a large variety of colours and surfaces.
- ALUCOLUX® is available in 3003 alloy for Solid and Metallic finishes. For real anodised finishes available with superior quality 5005 alloy.
- Comprehensive customer support: with ALUCOLUX® you will get technical assistance from our 3A Composites façade team in the recommending and designing of appropriate fixing systems. In addition you enjoy the usual commercial support from the 3A Composites sales team.
- Warranty: ALUCOLUX® comes with a 20 year warranty, directly from the manufacturer of ALUCOBOND® subject to a project specific application.

SURFACES & FINISHES

Solid Colours



Pure White 10 | 100



Light Grey | 104



Anthracite Grey | 105



Basalt Grey | 112



Platinum Grey | 136

Metallic Colours



Silver Metallic | 500



Smoke Silver Metallic | 501



Grey Metallic | 502



Champagne Metallic | 503



Bronze Metallic | 504



Siena Copper Metallic | 709

Real Anodised



Clear natural anodised



Gold 10



Bronze 20



Copper 30



Copper 60

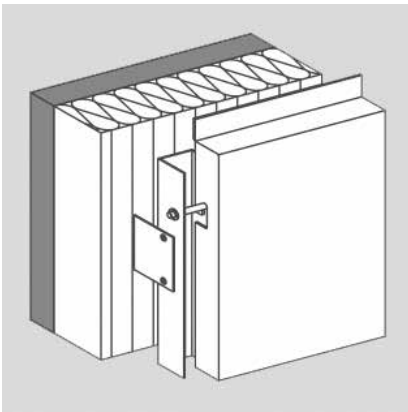
TECHNICAL DATA

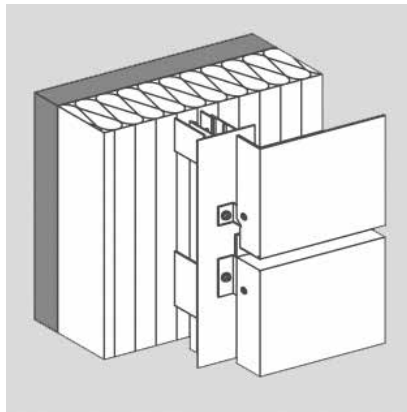
Technical Properties	Standards	Coil-coated	Real Anodised
Alloy	EN 573-3	EN AW 3003	EN AW 5005
Temper	EN 515	H44	H24
Standard Thickness	EN 485-4	3mm	3mm
Standard Widths	EN 485-4	1000mm, 1250mm, 1500mm	1000mm, 1250mm, 1500mm
Standard Length	EN 485-4	≤ 6000mm	≤ 6000mm
Panel Weight		8.1 Kg/m ²	8.1 Kg/m ²
Tensile Strength	EN 1396	140–185 MPa	
	EN 485-2		145–185 MPa
0,2% Proof Stress	EN 1396	≥ 110	
	EN 485-2		≥ 110
Elongation	EN 1396	A ₅₀ ≥ 5%	
	EN 485-2		A ₅₀ ≥ 5%
Linear Expansion	EN 1999 1-1	2.4 mm/m at 100 °C temperature difference	2.4 mm/m at 100 °C temperature difference
Surface		PVDF/FEVE	Real Anodised
Gloss	EN 13523-2	25–40 GU*	Depending on colour
Coating Thickness**	EN 13523-1	28–45µm	
Anodising Layer	EN ISO 7599		20µm
Fire Classification	EN 13501-1	A1	A1

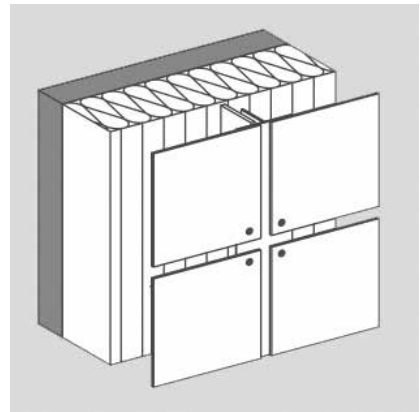
* Gloss Units

** Coating thickness varies for different surface finishes.

RECOMMENDED STANDARD FIXING SYSTEMS

Hook-on Bolt

Tray Panel

Riveted

To make the installation tension-free please consider fixed and sliding points due to the expansion of aluminium (2.4mm/m at 100 °C).

PROCESSING

ALUCOLUX® has easy forming properties that makes the material ideal for any façade, building or industrial applications. It can be easily cut, routed, folded, rolled, perforated, drilled, punched or bent without harming the preprinted or real anodised surface.

For making tray panels the processing temperature (>10 °C) has to be considered.



Router



Automatic Folder



Guillotine



Roll Bender

Please be aware of the fact that every machine may have different operating and processing parameters, please consult your machine and tool supplier for exact specifications and instructions.

Perforation



Cleaning and Maintenance

Annual cleaning is recommended. The surfaces should be cleaned either manually using a soft brush or by means of high-pressure cleaner (maximum 50 bar) with clean water. If necessary, a mild cleaning agent (pH 6–7) may be added, up to maximum 10%. Cleaning should take place from top to bottom. After cleaning, rinse with water to remove any cleaning agent residue.

Do not clean surfaces heated by the sun (>40 °C).

Storage and Transportation

To protect ALUCOLUX® panels against mechanical damage and harmful effects of weather conditions the following should be observed:

- The pallets must be handled carefully during transport and unloading.
- Upon delivery the pallets must be inspected for any damages during transportation.
- Store the pallets stacked one over the other (do not store ALUCOLUX® panels standing vertically) with a maximum of 3 pallets of the same format stacked on top of each other (heavy pallets at the bottom).
- It is recommended to store the pallets inside or using a cover.

Installation

- Use panels from a single production batch. Special care needs to be taken for all metallic colours and real anodised surfaces. Panels must be installed in the same direction.
- Directional guidance is printed on the protective foil on the panels.
- Make sure to remove the protective foil completely right after installation.

Environment, Health and Safety

For 3A Composites, effective and continuous environmental protection is a top priority. It is of utmost importance to preserve our natural resources for future generations. 3A Composites is committed to implementing its own continual improvements in environmental protection, measures which go above and beyond government regulations. 3A Composites was one of the first companies to develop its own environmental management system, which is regularly audited by independent experts.

Quality and Certificates

- Quality Management is based on 3A Composites standards, EN, DIN, ASTM and ECCA guidelines.
- Quality assurance has been certified to ISO 9001.
- Deliveries are in conformity to REACH and ROHS.

Recycling

ALUCOLUX® is 100% recycable.





A1 Fire Rated
Non-combustible
Solid Aluminium Sheet
ALUCOLUX®



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