ALUCOBOND® A2

non-combustible

THE ONLY NON-COMBUSTIBLE COMPOSITE PANEL

... for more structural safety

ALCAN COMPOSITES

ALUCOBOND® A2 – THE ONLY NO
non-combustible

2–3 mm non-combustible mineral-filled core

0.5 mm aluminium cover sheets

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 panels, 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 world-wide. 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 ideas.

ON-COMBUSTIBLE ALUMINIUM COMPOSITE PANEL USED IN AR

Fire behaviour

ALUCOBOND® A2 composite panels are not inflammable and do not actively contribute to combustion. During the life cycle 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.

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

CHITECTURE WORLD-WIDE

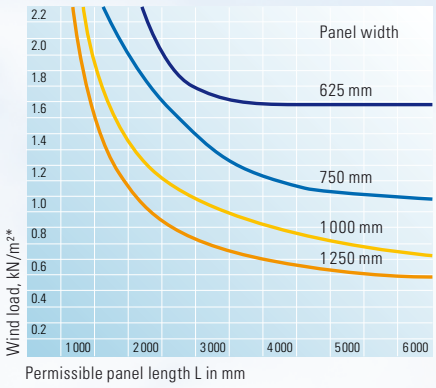
Unlimited applications – for interiors and exteriors

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

Wind load and permissible panel sizes

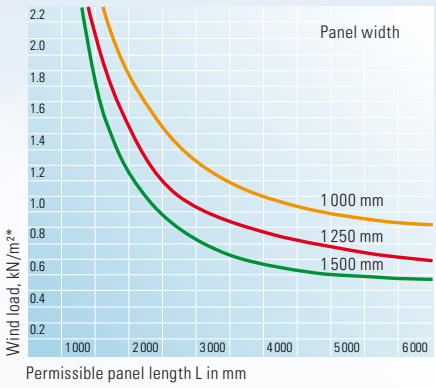
The graphs for 3 mm and 4 mm thick ALUCOBOND® A2 indicate the maximum permissible panel length (without need for stiffeners) based on the applicable design wind load and panel width (permissible stress = 51 N/mm²). The values apply to panels supported on four sides. Values for other systems on request.

3 mm



*Safety factor 1.75 already taken into account

4 mm



*Safety factor 1.75 already taken into account

Range of products

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

*Special sizes on request

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

International approvals and fire classifications

Country	Test accord 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 1 } Class 0 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	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 BS 476, Part 6 BS 476, Part 7	Class P Index 0 Class 1
	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/lb

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ALCAN COMPOSITES – A true "global player"

- Sales offices and production sites in Europe, North and South America, and Asia
- Large variety of panels
- Partnerships with leading distributors
- Professional sales teams

For more information on our products please visit our website **www.alucobond.com** or contact our local distributors.

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