

ALUCOBOND® plus



**For greater protection
against fire**

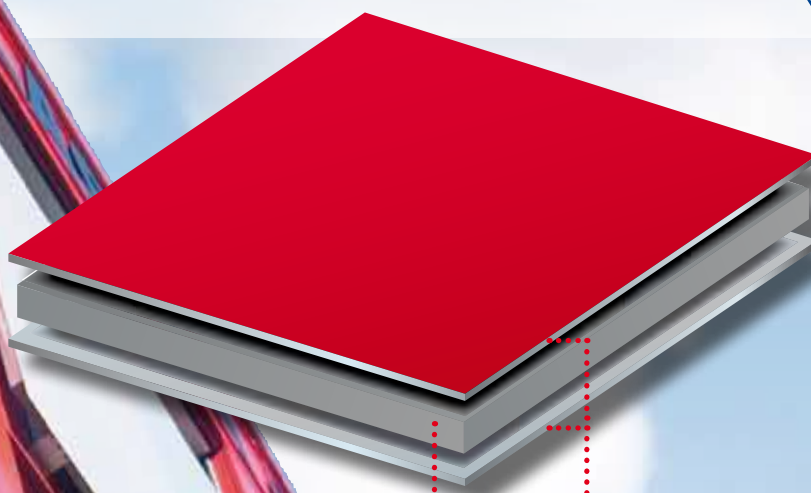


ALUCOBOND® plus

For more structural safety

ALUCOBOND® plus is a composite panel consisting of two aluminium cover sheets and a mineral-filled core.

The superb properties of this material boost one's inspiration and offer architecture a whole new range of solutions – whether your project is a private home, a public building, a corporate headquarter and offices, or a trading or industrial complex.



0.5 mm aluminium cover sheets

mineral-filled core



Fire behaviour

ALUCOBOND® plus has been developed exclusively for the higher requirements of the fire regulations in architecture. Due to its mineral-filled core ALUCOBOND® plus meets the higher requirements of the fire classifications. It is hardly inflammable and offers all the proven product properties of the ALUCOBOND® family.

Properties / advantages

- **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 to be applied
- **Simple processing** – can easily be folded and bent using common tools
- **Large panel sizes** – 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
- **Fire classification according to EN 13501-1, class B, s1, d0 (i.e. class 0 according British Building Regulation).**
Generates no harmful gases in case of fire



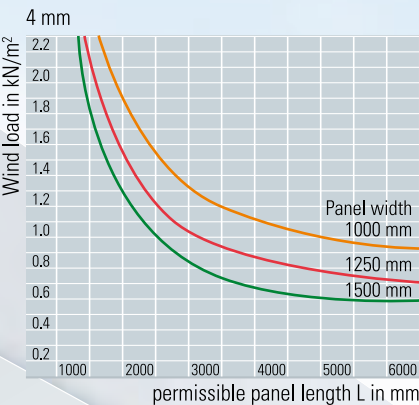
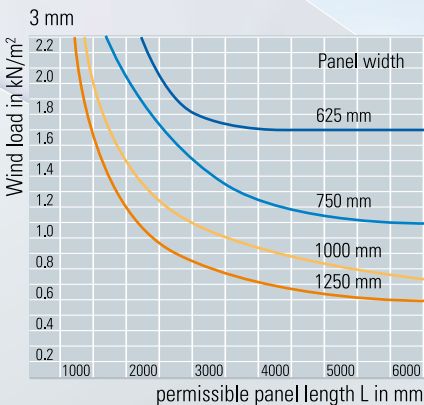
Unlimited applications – for interiors and exteriors

- Industrial buildings
- Public buildings
- Hotels
- Hospitals
- Shopping centres
- Sports-Stadiums
- Event halls
- Railway and underground stations

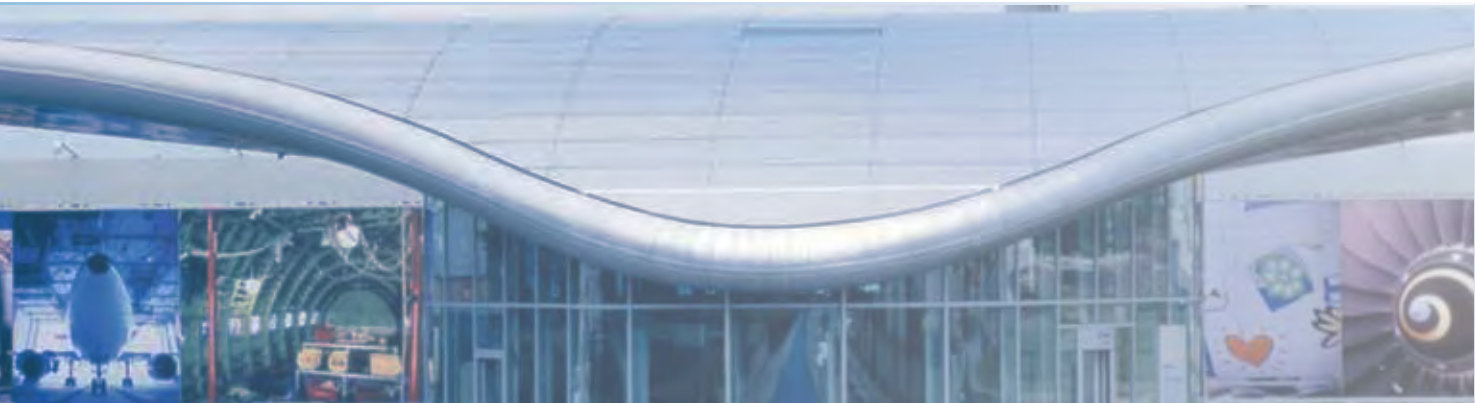
Wind load and permissible panel sizes

The graphs for 3 and 4 mm thick ALUCOBOND® plus indicate the maximum permissible panel length without having to add a stiffener based on applicable design wind load and panel width.

- Permissible design stress $\sigma = 51 \text{ N/mm}^2$ safety factor 1.75 is taken into account.
- Values apply to 4-side supported panels.
- Values for other systems on request.



ALUCOBOND® plus



Range of products

One side stove-lacquered		Dimensional tolerances	
Thickness	4 mm (3 mm*)	Thickness	±0.2 mm
Width	1 250 mm / 1 500 mm	Width	-0 / +4 mm
Length	up to 8 000 mm	Length	1 000–4 000 mm -0 / +6 mm
		Length	4 001–8 000 mm -0 / +10 mm

*Special sizes on request

Surfaces: one side stove-lacquered
On request: mill-finished
both sides stove-lacquered

Fire behaviour of ALUCOBOND® plus panels

Country	Test accord. to ...	Results / Classification
EU	EN 13501-1	Class B, s1, d0
Germany	DIN EN 13501-1 DIN 4102 Part 7	Class B, s1, d0 passed
Austria	ÖNORM EN 13501-1	Class B, s1, d0
Switzerland	VKF	Class 5.3
Russia	GOST 30244-94 GOST 30402-95 GOST 12.1.044-89 GOST 12.1.044-89	G1 W1 D2 T1
British Standard	BS 476, Part 6 BS 476, Part 7	Index I ≤ 12 i ≤ 6 Class 1
United Kingdom	meets therefore Class 0 (National Building Regulations)	
Malaysia	Approved for external wall cladding up to 18 m height.	
Singapore	Approved for walkways.	

ALUCOBOND® plus



ALCAN COMPOSITES – A true „global player“

- Sales offices and production plants in Europe, North and South America and Asia
- Widest range of available 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.

Printed in Germany - ALUCOBOND® plus - 01/09/10 GB



3A Composites GmbH
D-78224 Singen, Germany
Phone +49 (0) 7731 802347
Fax +49 (0) 7731 802845
info.eu@alucobond.com