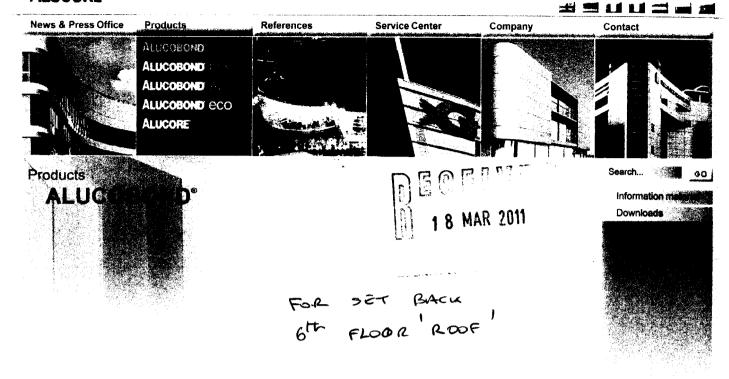
ALUCOBOND ALUCORE





Colours and Surfaces

Product Properties

Product Range

Technical Data

Processing

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Construction

Approvals and Fire Classification

Installation |

Maintenance | Storage | Handling

ALUCOBOND[®] is a composite panel consisting of two aluminium cover sheets and a plastic 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 or offices, or a trading or industrial complex - or if your organisation wants to create a new image-building Corporate Design - whether for petrol stations, car showrooms, banks or supermarkets.

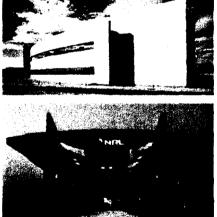


Advantages

Characteristics		Advantages		
	Low weight, high rigidity, perfect flatness	Low cost for substructures and fasteners, Smooth handling on the site		
	Large variety of colours	Unlimited planning and design		
	Weatherproof	Supplied ready to install		
	Vibration-damping	No additional sound-damping needed		
	Can easily be folded and bent	Simple processing using conventional tools		
	Large panel sizes, fast installation, pre-fabricated panels	Short construction times, adherence to schedules, low cost		

ALUCOBOND® perfectly adapts to a building's contours, flowing elements. It is the combination of formability, flatness, stability and weather resistance that characterizes this material. Due to its composite structure, **ALUCOBOND®** can take on many different shapes. Though both stable and flat **ALUCOBOND®** can be perfectly formed without any loss to its rigidity.

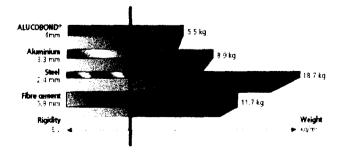




Lightness / Rigidity

The composite structure of **ALUCOBOND**® results in an impressive strength-to-weight ratio, even when comparing large panel sizes. Despite its low weight, which makes **ALUCOBOND®** easy to transport and handle in the factory and on site, its rigidity and high strength make the panels keep their shape and remain flat, even when exposed to extreme temperature changes.

Comparison of thickness and weight of panels with equal rigidity



ALUCOBOND® compared with solid aluminium

Required thickness and actual weights of panels with same rigidity

	ALUCOBOND®			Aluminium	
Rigidity (E J)	Section modulus	Thickness	Weight	Thickness	Weight
1250 kN cm²/m	1.25 cm³/m	3 mm	4.5 kg/m²	2.7 mm	7.3 kg/m²
2400 kN cm²/m	1.75 cm³/m	4 mm	5.5 kg/m²	3.3 mm	8.9 kg/m²

Sustainability

Environment, Safety and Quality

Today 3A Composites is recognized worldwide as one of the leading companies in the field of sustainability in fact not only within its own branch but also among other diversified producers and raw material processing companies throughout the world. 3A Composites's commitment to sustainability enables the company to make decisions that create the highest economic, social and ecological value, by taking the requirements of all the relevant groups into consideration.

The company commits to continuous self improvement programs for environmental protection, many of which exceed government regulations. 3A Composites continues to serve as a global leader in this field.

During the life cycle of **ALUCOBOND** composite panels, no substances containing CFC are set free at any

ALUCOBOND® for projects which require environmental-friendly materials is literally a natural choice.

time. The core material does not contain any nitrogen, chlorine or sulphur. Therefore, selecting

Life Cycle



During decades of use in a rear-ventilated cladding system, **ALUCOBOND**® protects the building from weathering and the harmful effects caused by industrial and environmental pollution.

An external cladding system using ALUCOBOND® acts as a barrier against solar radiation. The ventilated space between the ALUCOBOND® panels and the wall or the thermal insulation reduces the heat transmission.

The rear-ventilated cladding system using **ALUCOBOND®**, protects the wall of the building from high and rapid temperature changes. Moisture can pass through the wall. The building structure keeps dry.

Advantages

- . Lower maintenance costs
- Long-term preservation of the building structure
- . In winter: savings in heating cost
- In summer: savings in airconditioning cost
- · Reduction of thermal expansion
- . Reduction in crack formation

Recycling

ALUCOBOND® is fully recyclable, i.e. both the core material and the aluminium cover sheets are recycled and can be used in the production of new material.

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