

Fireproof Construction Board

Atlon MGO is an innovative multi-purpose fireproof construction board that uses a magnesium oxide formula integrated with layers of glass fibre mesh to create a board that is highly durable, incombustible (Euroclass A1), lightweight, waterproof, impact resistant, non-toxic and 100% recyclable.

This results in a product that:

Contributes to faster and more flexible building methods

Ensures contractors can comply with the most stringent standards and building codes, particularly with regards to fire safety

Significantly reduces total construction costs

Positively impacts sustainability and reduces CO2 emissions and water consumption

Fire Safety



Atlon MGO boards are rated to Euroclass A1 (incombustible) according to EN13501-1 standards, ensuring that contractors can comply with the most stringent of fire safety requirements.

Water proof



Atlon MGO boards are waterproof and remain dimensionally stable in high moisture / high humidity environments. The open molecular structure and high permeability to vapour means that the boards do not stimulate growth of mould or fungi, which means that the boards are resistant to rot and mildew.

CE Certified



Atlon MGO is fully tested and CE Certified according to European Quality Standards. This guarantees that all of our products meet and comply with the relevant European directives which apply in the areas of quality, health & safety and environmental sustainability.

Impact Resistance



Thanks to its reinforced glass fibre internal structure, Atlon MGO boards are highly durable and resistant to even major impacts. This makes it an ideal construction material for high performance environments, such as partition walls, leisure / modular construction and general construction environments.

Health & Safety



Atlon MGO boards are non-toxic, formaldehyde and asbestos free. They also do not support insect life, which means that they contribute to a safe working environment.

Contractor Friendly



Atlon MGO boards can be easily machined, cut, drilled, or rendered. Boards can be cut down easily using a box cutter / Stanley knife. They are lightweight and easy to install, which makes them a perfect material for easy handling and quick installation.

Sustainable



The cement and concrete industry is responsible for approximately 5% of global CO2 emissions. The use of magnesium oxide products as a building material significantly reduces CO2 emissions when compared with cement based alternatives. This means that Atlon MGO is not only a faster and more flexible construction material, but it will also contribute to a more sustainable construction industry.

Sizing



Standard Board Sizes

2400 x 1200 x 6mm/9mm/12mm

2700 x 1200 x 12mm

3050 x 1200 x 9mm/12mm/18mm

N.B. Bespoke sizes available upon request

Applications

Rendering



Timber Frames



Internal Wall Lining



Ceilings & Roofing



Steel Frames



Spandrel Panels



Modular Build



Tile Backer



Sub-flooring



Technical Data

Fire Performance

Reaction to fire classification	EN 13501-1:2007+A1:2009	Euroclass A1 (non-combustible)
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Screw Pull-out Strength (withdrawal capacity)

Test Standard EN 13446:2002	Thickness:	6.5	9mm	18mm
	(N)	122	482	1771

Physical Properties

Properties	Standard	Values	
Thickness (mm)	ISO 4593:1993	6.5	9
Density (g/m3)	BS EN 12467:2012+A2:2018 Clause 7.3.1	0.862	0.869
Bending Strength (MPa)	BS EN 12467:2012+A2:2018 Clause 7.3.2	16.6	6.9
Modulus of Elasticity	BS EN 12467:2012+A2:2018 Clause 7.3.2	3547	2116
Water Impermeability	BS EN 12467:2012+A2:2018 Clause 7.3.3	Pass	

Formaldehyde Release

Test Item	Standard	Limit	Unit	MDL	001
Formaldehyde Release	EN717-3:1996	80	mg/kg	10	ND

SVHC (Substances of Very High Concern)

Test Requested: SVHC screening is performed according to: (i) Two hundred and one (201) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before July 16, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.	Pass
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