

## ATLON MGO - TECHNICAL DATA SHEET

Atlon MGO is a multi-purpose, chloride-free, magnesium oxide board. It is highly durable, incombustible (Euroclass A1), waterproof, impact resistant, non-toxic and 100% recyclable.

#### **KEY PROPERTIES**

- Euroclass A1 Fire Resistant
- Water Resistant
- Insect Resistant
- Contractor friendly
- Anti-rot, anti-mold, anti-mildew
- Excellent machining properties
- Sanded boards available for lamination applications
- Non-toxic, non-hazardous, chloride-free
- Dimensionally stable
- Highly durable

#### **SIZES**

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.

## FIRE PERFORMANCE

Reaction to fire classification EN 13501-1:2007+A1:2009 EUROCLASS A1 (no	on-combustible)

### **PHYSICAL PROPERTIES**

Properties	Standard	Values	Values
Thickness (mm)	ISO 4593:1993	9	12
Density (g/m³)	BS EN 12467:2012+A2:2018 Clause 7.3.1	0.87	0.86
Bending strength (MPa) – Avg. value	BS EN 12467:2012+A2:2018 Clause 7.3.2	12.6	9.5
Modulus of Elasticity (MPa)	ity (MPa) BS EN 12467:2012+A2:2018 Clause 7.3.2		3610
Water Impermeability	BS EN 12467:2012+A2:2018 Clause 7.3.3	Pass	Pass

#### SCREW PULL OUT PERFORMANCE

Test Item	Standard	Parameter	Thickness (mm)	Average	Standard deviation
Withdrawal Capacity EN13446:2002		Fmax (N)	9	686	41
	EN1244C-2002	f (N/mm²)		18.1	1.1
	EN13446:2002	Fmax (N)	12	1122	83
		f (N/mm²)		22.8	1.7

N.B. All test results are reported to the best of our knowledge according to up to date results from recognised testing houses, specifications subject to change without notice.



#### **SURFACE WATER ABSORPTION**

Test Item	Standard	Surface	Thickness (mm)	Test Result (Avg. Value)
	Front	9	1134	
Surface Water	EN520:2004+A1:2009 Clause 5.9.1	Back	9	1253
Absorption (g/m2)		Front	12	1730
		Back	12	842

#### WATER ABSORPTION

Test Item	Standard	Thickness (mm)	Test Result
Water Absorption	EN15534-	9	23.7
(%) 1:2014+A1:2017 Clause 8.3.1	12	19.3	

#### **IMPACT RESISTANCE**

Test Item	Standard	Striker total mass (g)	Thickness (mm)	Test Result
Falling Mass Impact Resistance	EN15534- 1:2014+A1:2017 Clause 7.1.2.2	100, 200, 300, 400, 500, 600, 1000, 1500, 2000	9	Fail mass: 1000g

## **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 screeni	ng,
the test results of SVHC are ≤ 0.1% (w/w) in the submitt	ed PASS
sample.	