PUBLIC TECHNICAL SUMMARY

Sulfycor MgO Board Independent Test Evidence Summary

Selected results for Sulfycor magnesium oxysulfate board samples. This public summary helps technical buyers identify the relevant evidence before requesting controlled access to complete reports.

WHAT THIS SUMMARY SHOWS	WHY FULL REPORTS ARE CONTROLLED
Test method, headline result, tested product or thickness, report date and a masked reference. Results remain limited to the tested sample or assembly.	Complete laboratory reports may contain signatures, stamps, full identifiers and copyrighted formatting. They are supplied for qualified project review, not published as unrestricted source files.

Evidence categories

Fire and surface burning	Physical performance	Market and health review
EN 13501-1, ASTM E84, ASTM E136 and AS 1530.1	EN 12467 and AS/NZS 2908.2 test experience	Formaldehyde testing and manufacturer Declaration of Performance

Important: this document is a Sulfycor-created public summary. It is not a laboratory report, certificate, approval, product warranty or evidence for an untested thickness, finish or completed assembly.

FIRE AND NON-COMBUSTIBILITY

Headline Results from Sulfycor-Applicant Reports

The entries below identify selected test evidence. Confirm the proposed board, thickness, finish and assembly before using a result in a specification.

Test method	Public result	Tested scope	Date / masked ref.
EN 13501-1:2018	**Class A1**	Magnesium Sulfate Board sample	06 Jan 2025 241217...-001
ASTM E84	**FSI 0** **SDI 0**	Approximately 12 mm MgO Board sample	22 Nov 2024 241111...-001
ASTM E136	**Non-combustibility testing completed**	12 mm Magnesium Sulfate Board samples	10 Dec 2024 241127...-001
AS 1530.1-2024	**Non-combustibility testing completed**	Approximately 12 mm chloride-free MgO board sample	08 May 2025 250418...-001

How to interpret these results

BOARD CLASSIFICATION

A reaction-to-fire or non-combustibility result applies to the tested board sample and its documented specification. It does not automatically transfer to every thickness, facing, adhesive or finish.

ASSEMBLY PERFORMANCE

A wall, floor, SIP or duct rating depends on the complete tested or engineered construction. A board result alone is not a fire-resistance rating for the complete assembly.

Testing laboratory named in these current reports: Intertek. Laboratory logos are intentionally omitted from this public summary.

PHYSICAL PERFORMANCE

Selected 12 mm Board Results

Selected figures below are taken from a Sulfycor-applicant EN 12467 physical-performance report dated 20 Jan 2025. They describe the tested 12 mm board sample and test conditions in that report.

Equilibrium flexural strength	**20.5 MPa average**	Machine and cross-direction average
Wet flexural strength	**18.1 MPa average**	After at least 48 h immersion
Density	**919 kg/m³**	Tested 12 mm board
Water absorption	**18.4% by mass**	Average reported result
Freeze/thaw retention	**96%**	25 cycles; no cracks or delamination reported
Face screw withdrawal	**1,456 N**	No. 10 Type AB screw in reported test
Nail-head pull-through	**1,636 N**	Average maximum load
Falling-ball impact	**1,800 mm drop**	No visible underside fracture reported
Thermal conductivity	**0.180 W/(m K)**	Approximately 12.4 mm tested board

Additional current evidence

AS/NZS 2908.2 Type A board testing was completed in a Sulfycor-applicant report dated 24 Nov 2025. Formaldehyde was reported as ND under ASTM D6007-22 in a Sulfycor-applicant report dated 04 Jul 2025.

ND means not detected at the method/reporting limit stated in the report; it does not mean an absolute numerical zero. A chloride-ion result from a separate physical-performance report is not used by itself to prove a chloride-free formulation.

CONTROLLED DOCUMENT ACCESS

Request the Evidence That Matches Your Project

Sulfycor supplies full reports selectively so that the document, tested sample and proposed product remain connected. Share the details below and we will identify the relevant evidence set.

1	**Application and assembly**	Wall, floor, SIP, duct, modular wall or decorative interior use; include the proposed construction when available.
2	**Board specification**	Product series, surface or facing, thickness, size and edge condition.
3	**Required standard**	Requested test method, performance class, destination market or project specification.
4	**Commercial context**	Estimated quantity and destination. MOQ for project supply: 1 x 20GP container.

OPEN THE TECHNICAL DOCUMENTS PAGE

Document scope statement: availability of a report does not confirm that every Sulfycor board, thickness, finish or completed assembly has the same result. The relevant report and product specification must be reviewed together. Manufacturer declarations are identified separately from independent laboratory reports.

Issued by Sulfycor for public technical orientation. Full source reports remain controlled documents and may be watermarked for the receiving project.