INTELLIGENT PANEL SYSTEMS LTD

Magnesium sulphate boards • Plixxent PU foam insulation



Intelligent Panel Systems introduction

SulfRock is a magnesium sulphate (MgS) building board used as the facing material in Intelligent Panel Systems (IPS). Existing Intertek reports record the following results for the tested 12 mm board:

• Reaction to fire: A1 classification to EN 13501-1:2018.

• Flexural strength: 20.5 MPa dry and 18.1 MPa wet.

• Fixing performance: face screw withdrawal 1,456 N; nail-head pull-through 1,636 N, using the specified test fixings.

• Water tightness: no underside droplets during the 24-hour test.

• Freeze/thaw: 25 cycles with no visible defects; strength ratio 0.96.

• Water absorption: 18.4% by mass after 48-hour immersion.

• Moisture movement: 0.12% longitudinally and 0.10% transversely.

• Moisture content: 10.0% by mass.

• Thermal conductivity: 0.180 W/m·K to ASTM C518-21.

• Tested density: 919 kg/m³.

• Leachable chloride: 0.0098%.

References: Intertek 241217005SHF-001 (6 January 2025) and 241203010SHF-001 (20 January 2025). Results relate to the tested board and specified test conditions.

IPS uses 12 mm SulfRock boards on both faces of a Plixxent PU (polyurethane) insulation core, with perimeter and opening closures designed to fully encapsulate the insulation within the completed panel system.

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