21 October 2026

SulfRock and IPS

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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