PANELS

50 mm MgO / Rock Wool Sandwich Panel

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A commissioned fire-resistance report for a 50 mm metal-faced glass-magnesium (MgO) and rock wool sandwich wall assembly.

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Tested thickness	50 mm
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Standards	GB/T 9978.1-2008; GB/T 9978.8-2008
Applicant / holder	浙江艾绿净化科技有限公司
Issuing organization	广东省宝通质量检测有限公司

Recorded Results

Fire integrity	90 min
Fire insulation	90 min
Mean unexposed-face temperature rise	55 °C at 90 min
Maximum unexposed-face temperature rise	60 °C at 90 min
Geometric-centre deformation	+9 mm at 90 min; positive toward the fire-exposed face

Sample and Test Conditions

Four submitted panels, each 3000 x 1000 x 50 mm; exposed vertical test assembly 3000 x 3000 mm, with all four edges fixed.

Drawing lists 0.5 mm color-coated steel facings, rock wool at 120 kg/m³ and a 5 mm glass-magnesium board layer. It does not identify the material as magnesium oxysulfate.

Installation includes steel angles, screws, welded perimeter restraint, silica-alumina fibre joint filler and high-temperature adhesive as specified in the source drawing.

The integrity table records no unexposed-face flame at 90 min. The source states that the gap-gauge test was not conducted; no separate claim is made here about cotton-pad subtesting.

Scope of This Document

The reported 90-minute result applies to the tested wall assembly and fixing details. The 120 kg/m³ rock wool configuration is kept distinct from the 100 kg/m³ configuration in report 2023200610.

Read the complete Chinese document for the original tables, drawings, seals and stated conditions.