

Test laboratory for the fire behavior of building materials, Dipl.-Ing. (FH) Andreas Hoch
Testing, supervising and certifying body, authorized by the building supervision authority

TEST REPORT

PZ-Hoch-200414

For the proof of Fire behaviour according to DIN 4102, part 1

Translation of the German test report – no guarantee for translation of technical terms

Company	MIG mbH Material Innovative Gesellschaft mbH Am Grarock 3 D – 33154 Salzkotten
Description of samples	white internal coating and colourless primer for hydrophobizing
Name of the material	„MIG DHMb® Lining System“ composed of „MIG-ESP® Interior“ and „MIG-ESP® Primer“ on gypsum plasterboard
Sampling	by the company itself
Content of request	Proof of fire behaviour of building materials according to DIN 4102, part 1
Validity of the test report	31.05.2025
Result	The examined product meets the requirements of class A2 for non-combustible building materials according to DIN 4102, part 1 (May 1998), with an applied quantity of the primer of 200 g/m² and the coating of twice 230 g/m² on massive mineral underground with a density ≥ 1500 kg/m³ and a thickness of ≥ 6mm massive mineral underground with a density ≥ 650 kg/m³ and a thickness ≥ 11mm non-combustible building board.

This test report includes 8 pages and 3 enclosures.

Remark: If the above mentioned building material is not used as product according to MBO § 2, Abs. 9, Ziffer1, there is no need for a general building supervisory test report.

This test report is not valid if the examined building material is used as product in the meaning of state building prescriptions (MBO § 17, Abs. 3).

This test report does not replace an eventually necessary proof of applicability concerning building supervisory or building laws in the meaning of state building prescriptions. This has to be verified by:

- „allgemeine bauaufsichtliche Zulassung“ (general building inspectorate approval) or by
- „allgemeines bauaufsichtliches Prüfzeugnis“ (general building inspectorate certificate) or by
- „Zustimmung im Einzelfall“ (exceptional approval)

This test report can underlie building supervisory procedures

- for regular building products for the prescribed proofs of conformity
- for non-regular building products for the needed proofs of applicability.

This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents. Agreement of the test laboratory has to be given in any case if norms on which the tests are based or other technical standards have changed.

1. **Description of test material in condition as delivered:**

PN 31184: “MIG-ESP® Interior“
white internal coating
5 litre bucket

PN 31194: “MIG-ESP® Primer“
colourless primer for hydrophobizing
5 litre canister

PN 31245: “MIG DHMb® Lining System“
assembling of PN 31184, PN 31194 and a gypsum plasterboard, applied
from the Prüfinstitut Hoch according to manufacturer instruction

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 917 g/m² thickness: about 13,09 mm

The testing laboratory is not provided with further details concerning the composition of the tested building materials. Samples are retained.

2. **Preparation of samples:**

The primer were applied with 200 g/m² wet applied quantity and the silicone resin paint twice 230 g/m² wet applied quantity (total applied quantity 460 g/m²) on a 12,5 mm gypsum plasterboard according to EN520.

Samples have been prepared for tests in the fire shaft, for the smoke development when burned in flames as well as for determination of smoke development under smouldering conditions. The samples were kept in climate chamber 23/50 until they reached constant weight. The determinations of the calorific potential in the bomb calorimeter were carried out with the original materials.

3. **Testing procedure:** according to DIN 4102 part 1, part 15 and part 16.

4. **Date of test:** week 18 to 20 in 2020