



Institut für **Baubiologie** Rosenheim GmbH

Institut für **Baubiologie** Rosenheim GmbH, Münchener Straße 18, 83022 Rosenheim



Knauf GmbH Sucursal en España  
Avda. Manóteras, 10  
E-38050 Madrid  
Spanien

07/24/2023

Dear Sir or Madam,

The laboratory IUL Vorpommern (Industrie- und Umweltlaboratorium Vorpommern GmbH, Am Koppelberg 20, 17489 Greifswald, accredited and independent laboratory according to DIN ISO EN/IEC 17025) received samples of the product gypsum boards of Knauf GmbH Sucursal en España Avda.Manóteras, 10, E-38050 Madrid for the measurement of AgBB-scheme and for French VOC regulation.

The samples were tested according to the relevant standards DIN EN ISO 16000 / DIN EN 16516, see test reports 22-0435-001 and 22-0435-002 (original test reports of the lab IUL, see above) or as described in the Test Report / Certification of the Institut für Baubiologie Rosenheim GmbH with the number 3022-1257.

The certification is valid for the following gypsum boards:

- Knauf Standard tipo A
- Knauf Impregnada tipo H1
- Knauf Cortafuego tipo DF
- Knauf Diamant tipo DFH1IR
- Knauf Alta Dureza tipo DI
- Knauf Acustik
- Knauf Lightboard
- Knauf Maciza
- Knauf Maxiboard
- Knauf Gama Unik

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Knauf Diamant DFH1IR boards have the same or better properties than the other boards, and their composition encompasses all these boards. The models are manufactured using the same production methods and are composed of the same product ingredients (formulation). The test sample has been selected from the model within the group that can be expected to yield the worst results for the test, taking into account special attributes, materials, manufacturing methods, suppliers, etc.

The AgBB evaluation scheme also complies with the series of standards ISO 16000 / DIN EN 16516 being globally relevant for construction products, and so equally corresponds with national and international requirements. Product fulfilling AgBB requirement are also approved for usage in international LEED building projects.

| Parameter /<br>Limit value after 28 days | AgBB 2021                           | French VOC regulation A+<br>2011                 | Gypsum board<br>(after 28 days) |
|--|-------------------------------------|--|---------------------------------|
| TVOC                                     | $\leq 1.000 \mu\text{g}/\text{m}^3$ | $\leq 1.000 \mu\text{g}/\text{m}^3$              | Pass                            |
| TSVOC                                    | $\leq 100 \mu\text{g}/\text{m}^3$   | Not defined                                      | Pass                            |
| Tolouole                                 | $2.900 \mu\text{g}/\text{m}^3$ *)   | $< 300 \mu\text{g}/\text{m}^3$                   | Pass                            |
| Formaldehyde                             | $100 \mu\text{g}/\text{m}^3$ *)     | $< 10 \mu\text{g}/\text{m}^3$                    | Pass                            |
| Acetaldehyde                             | $300 \mu\text{g}/\text{m}^3$ *)     | $< 200 \mu\text{g}/\text{m}^3$                   | Pass                            |
| CMR substances 1A & 1B                   | $\leq 1 \mu\text{g}/\text{m}^3$     | $\leq 1 \mu\text{g}/\text{m}^3$ (CMR-regulation) | Pass                            |
| R value                                  | $\leq 1$                            | $\leq 1$   | Pass                            |
| TVOC without LCI                         | $\leq 100 \mu\text{g}/\text{m}^3$   | not defined                                      | Pass                            |

\*) NIK, LCI, CLI

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With best regards,

**IBR Institut für Baubiologie  
Rosenheim GmbH**



Dr. Nicole Kniewasser  
Scientific Management

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