



DECLARATION OF PERFORMANCE

No: KAGE_002

- Unique identification code of the product-type: **AQUAPANEL® Cement Board Outdoor**
OD_12,5_901, OD_12,5_903
- Intended use/es: **AQUAPANEL® Cement Board Outdoor is used as render substrate board / lathing board in facades and for construction of suspended ceilings in outdoor applications.**
- Manufacturer: **Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D - 58638 Iserlohn**
Tel.: +49 2374 5036-0, Fax: +49 2374 5036-300, E-Mail: aquapanel.info@knauf.com
- Authorised representative: not applicable
- System/s of AVCP: **System 3, System 4**
- a) Harmonised standard: not applicable
Notified body/ies: not applicable
- b) European Assessment Document: EAD 210024-00-0504
European Technical Assessment: **ETA-07/0173**, dated 11.10.2017
Technical Assessment Body: Deutsches Institut für Bautechnik DIBt
Notified body/ies: not applicable
- Declared performance/s:

| Essential Characteristics | Performance |
|--|--|
| Safety in case of fire (BWR 2) | |
| Reaction to fire | Class A1 according to EN 13501-1:2010-01 |
| Hygiene, health and environment (BWR 3) / Content, emission and/or release | |
| Substance(s) classified as EU-cat. Carc. 1A/1B | The product does not contain these dangerous substances. |
| Substance(s) classified as EU-cat. Muta. 1A/1B | |
| Substance(s) classified as EU-cat. Acute Tox. 1, 2 and/or 3; substance(s) classified as EU-cat. STOT SE 1 and/or STOT RE 1 | |
| Biocides | Not contained |
| Safety and accessibility in use (BWR 4) | |
| Thickness | $e = 12,5 \text{ mm} \pm 1,25 \text{ mm}$ |
| Dimensions (length and width) | Annex C |
| Straightness of edges | 0,1 % = Level I according to EN 12467 |
| Squareness of edges | 2 mm/m = Level I according to EN 12467 |
| Density | $\rho_{\text{mean}} = 1200 \pm 175 \text{ kg/m}^3$ |
| Moisture content | H = 10,3 % by mass |
| Water permeability | Passed |
| Dimensional stability - length | $\delta_{65,85} = 0,2 \text{ mm/m}$, $\delta_{65,30} = -0,4 \text{ mm/m}$ |

AQUAPANEL®

| Essential Characteristics | Performance | |
|--|--|-------------------------------------|
| Safety and accessibility in use (BWR 4) | | |
| Dimensional stability - thickness | $\bar{\delta}_{65,85} = 0,02 \%$, $\bar{\delta}_{65,30} = -0,04 \%$ | |
| Bending strength | $f_{m,0,k} = 5,0 \text{ N/mm}^2$, $f_{m,90,k} = 8,1 \text{ N/mm}^2$ | |
| Bending modulus of elasticity | $E_{m,0,\text{mean}}$, $E_{m,90,\text{mean}}$: No performance assessed | |
| Pull through resistance AQUAPANEL Maxi Screw | Type SN (Annex A1) | $f_{\text{head},k} = 390 \text{ N}$ |
| | Type SB (Annex A2) | $f_{\text{head},k} = 400 \text{ N}$ |
| Pull through resistance AQUAPANEL Rustproofed screw | Type SN (Annex A3) | $f_{\text{head},k} = 460 \text{ N}$ |
| | Type SB (Annex A4) | $f_{\text{head},k} = 430 \text{ N}$ |
| Impact resistance | $IR_{\text{mean}} = 16,0 \text{ mm/mm}$ | |
| Water absorption | $w_a = 21,2 \%$ by mass | |
| Freeze-thaw resistance for category B | $R_{L,\text{FTC}} = 0,91$ | |
| Heat-rain resistance for category B | Passed | |
| Warm water resistance for category B | $R_{L,\text{ww}} = 0,79$ | |
| Soak-dry resistance for category B | $R_{L,\text{SD}} = 1,0$ | |
| Durability of metal parts | Annex B1 | |
| Energy economy and heat retention (BWR 6) | | |
| Thermal conductivity | $\lambda_{10,\text{tr}} = \text{No performance assessed}$ | |
| Air permeability | The "AQUAPANEL Cement Board Outdoor" is not permeable to air. | |

8. Appropriate Technical Documentation and/or Specific Technical Documentation: not applicable

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Dr. Thomas Koslowski
General Manager



Iserlohn, 06.08.2018

