# DECLARATION OF PERFORMANCE

## No: KAGR_002

1. Unique identification code of the product-type: **AQUAPANEL® Cement Board Outdoor**
   OD_12,5_902

2. 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.**

3. Manufacturer: **Knauf Aquapanel ABEE, 2nd Industrial Zone of Volos, GR – 37500 Volos**
   **Tel.: +30 24250 24340, Fax: +30 24250 24342, E-Mail: aquapanel.info@knauf.com**

4. Authorised representative: not applicable

5. System/s of AVCP: **System 3, System 4**

6. a) Harmonised standard: not applicable
   Notified body/ies: not applicable

6. 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

7. 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 mm ± 1,25 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 | $\rho_{mean}$ = 1200 ± 175 kg/m³ |
| Moisture content | H = 10,3 % by mass |
| Water permeability | Passed |
| Dimensional stability – length | $\delta_{65,85}$ = 0,2 mm/m, $\delta_{65,30}$ = -0,4 mm/m |

| Essential Characteristics | Performance | |
|---|---|---|
| **Safety and accessibility in use (BWR 4)** | | |
| Dimensional stability – thickness | $\delta_{65,85}$ = 0,02 %, $\delta_{65,30}$ = -0,04 % | |
| Bending strength | $f_{m,0,k}$ = 5,0 N/mm², $f_{m,90,k}$ = 8,1 N/mm² | |
| Bending modulus of elasticity | $E_{m,0,mean}$, $E_{m,90,mean}$: No performance assessed | |
| Pull through resistance AQUAPANEL Maxi Screw | Type SN (Annex A1) | $f_{head,k}$ = 390 N |
| | Type SB (Annex A2) | $f_{head,k}$ = 400 N |
| Pull through resistance AQUAPANEL Rustproofed screw | Type SN (Annex A3) | $f_{head,k}$ = 460 N |
| | Type SB (Annex A4) | $f_{head,k}$ = 430 N |
| Impact resistance | $IR_{mean}$ = 16,0 mm/mm | |
| Water adsorption | $w_a$ = 21,2 % by mass | |
| Freeze-thaw resistance for category B | $R_{L,FTC}$ = 0,91 | |
| Heat-rain resistance for category B | Passed | |
| Warm water resistance for category B | $R_{L,WW}$ = 0,79 | |
| Soak-dry resistance for category B | $R_{L,SD}$ = 1,0 | |
| Durability of metal parts | Annex B1 | |
| **Energy economy and heat retention (BWR 6)** | | |
| Thermal conductivity | $\lambda_{10,tr}$ = 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, 16.10.2018

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