



DECLARATION OF PERFORMANCE

No: KAGE_002

1. Unique identification code of the product-type: **AQUAPANEL® Cement Board Outdoor**
OD_12,5_901, OD_12,5_903
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 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
4. Authorised representative: not applicable
5. System/s of AVCP: System 3 (reaction to fire), System 4 (all other product characteristics)
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: MPA Nordrhein-Westfalen (0432) determined the reaction to fire classification.
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. Repr. 1A/1B; substance(s) classified as EU-cat. STOT SE 1 and/or STOT RE 1	
Biocides	
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

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Essential Characteristics	Performance
Safety and accessibility in use (BWR 4)	
Water impermeability	Passed
Dimensional stability – length	$\delta_{65,85} = 0,2 \text{ mm/m}$, $\delta_{65,30} = -0,4 \text{ mm/m}$
Dimensional stability – thickness	$\delta_{65,85} = 0,02 \%$, $\delta_{65,30} = -0,04 \%$
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	$IR_{\text{mean}} = 16,0 \text{ mm/m}$
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 $\lambda_{10,\text{tr}}$	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:


Harald Kielstein
Technical Director


Mayank Upadhyay
Product Manager

Iserlohn, 20.09.2023

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