DECLARATION OF PERFORMANCE

No: KAGR_018

1. Unique identification code of the product-type: **AQUAPANEL® Cement Board Thermobase**
   TB_8_902

2. Intended use/es: **AQUAPANEL® Cement Board Thermobase** is used as substrate board in facades and for ETICS construction 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 (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-13/0608**, dated 19.06.2018
   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)	
Vapour Permeability	(hydrophobic): μ = 40,1
Content and release of hazardous substances	
Substance(s) classified as EU-cat. Carc. 1A/1B	The product does not contain these dangerous substances actively used.
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	
SVOC and VOC	No performance assessed
Safety and accessibility in use (BWR 4)	
Thickness	e = 8,0 mm ± 0,8 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

Essential Characteristics	Performance
Safety and accessibility in use (BWR 4)	
Density	ρ_{mean} = 1230 kg/m³
Moisture content	H ≤ 13 % by mass
Water impermeability	Passed
Dimensional stability – length	$\delta_{65,85}$ = 0,38 mm/m, $\delta_{65,30}$ = -0,32 mm/m
Dimensional stability – thickness	$\delta_{65,85}$ = 0,3 %, $\delta_{65,30}$ = -0,3 %
Bending strength	$f_{m,0,k}$ = 6,9 MPa, $f_{m,90,k}$ = 10,9 MPa
Bending modulus of elasticity	$E_{m,0,mean}$ = 800 MPa, $E_{m,90,mean}$ = 1750 MPa
Pull through resistance AQUAPANEL Maxi Screw SN AQUAPANEL Maxi Screw SB	 $f_{head,k}$ = 2,8 N/mm² $f_{head,k}$ = 2,8 N/mm²
Impact resistance	IR_{mean} = 12,5 mm/mm
Water adsorption	w_a = No performance assessed
Freeze-thaw resistance for category B and D	$R_{L,FTC}$ = 0,94
Heat-rain resistance for category B	Passed
Warm water resistance for category B and D	$R_{L,WW}$ = 0,82
Soak-dry resistance for category B and D	$R_{L,SD}$ = 1,0
Durability of metal parts	Annex B1
Energy economy and heat retention (BWR 6)	
Thermal conductivity	$\lambda_{10,tr}$ = 0,36 W/(m*K)
Air permeability	The “AQUAPANEL Cement Board **Thermobase**” 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:

i.V. H. Kielstein

Harald Kielstein
Technical Director

i. A. T. Upadhyay

Mayank Upadhyay
Product Manager

Iserlohn, 26.08.2024

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