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Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

European Technical Assessment ETA-22/0355 of 2022/05/16

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:	Muffaway KLIMAPLATTE
Product family to which the above construction product belongs:	Mineral thermal insulation board
Manufacturer:	Naturalia BAU GmbH/srl Via C. Abarth-Str. 20 IT-39012 Merano (BZ) www.naturalia-bau.it
Manufacturing plant:	Naturalia BAU GmbH/srl manufacturing plants – held on file by ETA-Danmark A/S
This European Technical Assessment contains:	6 pages
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	EAD 040012-00-1201; Thermal insulation board made of mineral material
This version replaces:	

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of the product and intended use

Technical description of the product
The Muffaway KLIMAPLATTE are mineral thermal insulation boards made of calcium silicate. The insulation board has an organic content of more than 1%.

The surface of the thermal insulation boards can be provided in the factory with a priming coat.

Details of the composition and manufacturing process are deposited with ETA-Danmark A/S.

Dimensions and density
Muffaway KLIMAPLATTE:
Length: 300-1000 mm
Width:150–500 mm
Thickness: 20-40 mm

The boards have a density of 225 kg/m^3 ± 10%

2 Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter EAD)

The insulation board is used for the thermal insulation of walls and ceilings.

Muffaway KLIMAPLATTE is intended to be used as an insulation product for the thermal insulation of walls and ceilings.

The insulation board can be glued to the substructure and can be plastered, coated or painted. Fixing with suitable anchors is possible

The provisions made in this European Technical Assessment are based on an assumed intended working life of the boards of 50 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

Characteristic	Assessment of characteristic
3.2 Safety in case of fire (BWR2)	
Reaction to fire	The Muffaway KLIMAPLATTE are classified as **Euroclass A1** in accordance with EN 13501-1 and Commission Delegated Regulation 2016/364
3.3 Hygiene, health and the environment (BWR3)	
Influence on air quality	No Performance assessed
Water vapour transmission	**μ = 3,0** in accordance with EN 12086:2013
3.6 Energy economy and heat retention (BWR6)	
Thermal conductivity	The measurements have been carried out in accordance with EN 12667: 2001, and the category for declaring the performance is Category 1 according to EN ISO 10456: 2007
Dimensions/geometry	Thickness in accordance with EN 823: ± 1,5 mm Length and width in accordance with EN 822: – dimensions < 600 mm: ± 2,0 mm – dimensions ≥ 600 mm: ± 2,5 mm Squareness in accordance with EN 824: Length and width: $S_b \leq 3$ mm/m Thickness: $S_d \leq 2$ mm Flatness in accordance with EN 825: $S_{max} \leq 2$ mm
Water absorption	Short-term water absorption by partial immersion for a 40 mm thick board in accordance with EN 1609: **28 kg/m²** Long-term water absorption by partial immersion for a 40 mm thick board in accordance with EN 12087: **34 kg/m²**
Density	The density of the board in accordance with EN 1602: **225 kg/m³ ± 10%**
Bending strength	No performance assessed
Compressive strength	Compressive strength in accordance with EN 826: **CCS ≥ 1500 KPa**

$\lambda_{(10,dry,limit)}$ [W·m-1·K-1]	0,068
$\lambda_{(23,50)}$ [W·m-1·K-1]	0,068
u23,50 [kg/kg]	0,014
u23,80 [kg/kg]	0,029
$f_{u,1}$	1,26
$f_{u,2}$	2,39
F_{m1}	1,02
F_{m2}	1,04

Characteristic	**Assessment of characteristic**
Dimensional stability after 48 h storage at (70 ± 2) °C	Dimensional stability under specified temperatures in accordance with EN 1604: Relative change of dimensions in length $\Delta\varepsilon_l \leq$ **0,5%** Relative change of dimensions in width $\Delta\varepsilon_b \leq$ **0,5 %** Relative change of dimensions in thickness $\Delta\varepsilon_d \leq$ **1%**
Dimensional stability after 48 h storage at (23± 2) °C and (90±5) % RH	Relative change of dimensions in length $\Delta\varepsilon_l \leq$ **0,5%** Relative change of dimensions in width $\Delta\varepsilon_b \leq$ **0,5 %** Relative change of dimensions in thickness $\Delta\varepsilon_d \leq$ **1%**
Tensile strength perpendicular to faces	No performance assessed
Behaviour under point load	No performance assessed
Porosity	Porosity in accordance with EN 993-1: **91 %**

4 Attestation and verification of constancy of performance (AVCP)

4.1 AVCP system

According to the decision 1999/91/EC of the European Commission1, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 1, due to the organic content exceeding 1 %

5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking.

Issued in Copenhagen on 2022-05-16 by

Thomas Bruun
Managing Director, ETA-Danmark