



ETA-Danmark A/S  
Göteborg Plads 1  
DK-2150 Nordhavn  
Tel. +45 72 24 59 00  
Fax +45 72 24 59 04  
Internet [www.etadanmark.dk](http://www.etadanmark.dk)

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

MEMBER OF EOTA



## European Technical Assessment ETA-22/0265 of 2024/03/25

### 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:**

Panel Life

**Product family to which the above construction product belongs:**

Mineral thermal insulation board

**Manufacturer:**

TORGGLER s.r.l  
Via Prati Nuovi 9  
IT-39020 Marlegno (BZ)  
[www.torggler.com](http://www.torggler.com)

**Manufacturing plant:**

TORGGLER s.r.l 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:**

The ETA with the same number issued on 2022-04-08

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential Annex(es) referred to above). However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

## **II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT**

### **1 Technical description of the product**

The Panel Life 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 with a PCS  $\leq 2,0$  MJ/kg.

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

#### **Dimensions and density**

Panel Life:

Length 300-2440 mm

Width 150-1220 mm

Thickness 5-100 mm

The boards have a density of  $225 \text{ kg/m}^3 \pm 10\%$

### **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.

Panel Life 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 Panel Life are classified as **Euroclass A1** in accordance with EN 13501-1 and Commission Delegated Regulation 2016/364

The factory applied primer shall have a PCS  $\leq 2,0$  MJ/kg

#### 3.3 Hygiene, health and the environment (BWR3)

Influence on air quality

No Performance assessed

Water vapour transmission

$\mu = 3,0$  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

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

Dimensions/geometry

Thickness in accordance with EN 823:  $\pm 1,5$  mm

Length and width in accordance with EN 822:

- dimensions  $< 600$  mm:  $\pm 2,0$  mm
- dimensions  $\geq 600$  mm:  $\pm 2,5$  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

No performance assessed

Density

The density of the board in accordance with EN 1602: **225 kg/m<sup>3</sup>  $\pm$  10%**

Bending strength

No performance assessed

Compressive strength

Compressive strength in accordance with EN 826: **CCS  $\geq 1500$  KPa**

---

<b>Characteristic</b>	<b>Assessment of characteristic</b>
Dimensional stability after 48 h storage at $(70 \pm 2) ^\circ\text{C}$	Dimensional stability under specified temperatures in accordance with EN 1604: Relative change of dimensions in length $\Delta\epsilon_l \leq 0,5\%$ Relative change of dimensions in width $\Delta\epsilon_b \leq 0,5\%$ Relative change of dimensions in thickness $\Delta\epsilon_d \leq 1\%$
Dimensional stability after 48 h storage at $(23 \pm 2) ^\circ\text{C}$ and $(90 \pm 5) \% \text{RH}$	Relative change of dimensions in length $\Delta\epsilon_l \leq 0,5\%$ Relative change of dimensions in width $\Delta\epsilon_b \leq 0,5\%$ Relative change of dimensions in thickness $\Delta\epsilon_d \leq 1\%$
Tensile strength perpendicular to faces	No performance assessed
Behaviour under point load	No performance assessed
Porosity	Porosity in accordance with EN 993-1: <b>91 %</b>

---

#### **4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base**

##### **4.1 AVCP system**

According to the decision 1999/91/EC of the European Commission<sup>1</sup>, 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 provided for 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 2024-03-25 by



Thomas Bruun  
Managing Director, ETA-Danmark