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MEMBER OF EOTA



European Technical Assessment ETA-18/0648 of 2023/02/14

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:

SkamoCovering Board 250

Product family to which the above construction product belongs:

Fire protective board

Manufacturer:

Skamol A/S
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Manufacturing plant:

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This European Technical Assessment contains:

8 pages including 1 annexes which form an integral part of the document

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:

European Assessment Document no. EAD 350142-00-1106 Fire protective board, slab and mat products and kits

This version replaces:

The ETA with the same number issued on 2018-08-07

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

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II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of the product and intended use

Technical description of the product

The SkamoCovering Board 250 board is a lightweight calcium silicate board. The board is grey in appearance.

Dimensions and density

Dimensions and density of the board is given in table 1.

Table 1: Dimensions and density

Bulk density, dry: 250 kg/m ³			
Tolerance on the length and width: ± 2,5 mm			
Tolerance on the thickness: ± 1,5 mm			
Length, mm	Width, mm	Thickness, mm	Weight kg pr. m ²
1220	1000	22	5,50
1220	1000	25	6,25
1220	1000	30	7,50
1220	1000	35	8,75
1220	1000	40	10,00
1220	1000	45	11,25
1220	1000	47	11,75
1220	1000	50	12,50
1220	1000	55	13,75
1220	1000	60	15,00

Ancillary products

The is ETA covers the board alone. Ancillary products referred to in this ETA, as a part of installation provisions or in the framework of determining performances (e.g. fire resistance test), are not covered by this ETA and cannot be CE marked on the basis of it.

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

The intended use of the board is internal use designated as type Y in EAD 350142-00-1106.

The board is intended to protect elements to be used in assemblies as specified in table 2:

Table 2: Intended use

Protection of	EAD 350142-00-1106 reference	Assessment within the framework of this ETA
Fire protective products as horizontal membrane protection	Type 1	Fire protective ability
Fire protective products as vertical membrane protection	Type 2	Fire protective ability
Load bearing concrete elements	Type 3	No
Load bearing steel elements	Type 4	No
Load bearing flat concrete profiles sheet composite elements	Type 5	No
Load bearing concrete filled hollow steel elements	Type 6	No
Load bearing timber elements	Type 7	No
Fire separating assemblies with no load bearing requirements	Type 8	No
Technical services in buildings	Type 9	No
Uses not covered by type 1-9	Type 10	No

Table 1 shows the possible intended uses of the boards. Not all of these have been assessed within the framework of this ETA with regard to fire resistance performance. Annex 1 shows a list of the uses for which fire resistance assessment was carried out. This ETA covers assemblies installed in accordance with the provisions given in Annex 1.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the boards of 25 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
3.1 Safety in case of fire (BWR2)	
Reaction to fire	SkamoCovering Board 250 are classified as Euroclass A1 in accordance with EN 13501-1 and Commission Delegated Regulation 2016/364
Resistance to fire	The fire protective ability of the board is presented in annex 1.
3.2 Hygiene, health and the environment (BWR3)	
Content, emission and/or release of dangerous substances	No performance assessed
Air and water permeability	This characteristic is not relevant for the intended use Z ₂ (internal use)
3.3 Safety in use (BWR 4)	
Flexural strength	The declared MOR for the board is 1,0 MPa. The boards have sufficient strength to support their own mass. The boards are not intended to support additional loads.
Dimensional stability	The boards, tested in accordance with EN 1604, are dimensionally stable.
3.4 Energy economy and heat retention (BRW 6)	
Thermal conductivity	The declared λ_{10} -value for a board with density 250 kg/m ³ is 0,073 W/mK
Water vapour permeability	No performance assessed
3.5 General aspects related to the performance of the product	
Resistance to deterioration caused by water	This characteristic is not relevant to the intended use Z ₂ if no more than accidental wetting is expected.
Resistance soak/dry	This characteristic is not relevant for the intended use Z ₂ (internal use)
Resistance to freeze/thaw	Use category Y in accordance with EAD 350142-00-1106

Characteristic	Assessment of characteristic
Resistance to heat/rain	This characteristic is not relevant for the intended use Z ₂ (internal use)
Basic durability assessment	Product performances of the boards covered by this ETA confirm a working life of 25 years for the intended use type Y (internal and semi-exposed use) and Z ₂ (internal use if no more than accidental wetting inside the building is to be expected)
Compressive strength	The board have a compressive strength of 2,8 MPa

3.6 Aspects related to the performance of the product

Cutting and machining

The fire protective boards shall be cut and machined using conventional woodworking equipment. The use of saw blades with hardened teeth or with tungsten carbide tipped blades is recommended. When machining the fire protective board with power tools, dust extraction shall take place and inhalation of dust should be avoided.

A safety data sheet is available from the manufacturer upon request.

Joints

The fire protective boards shall be butt jointed. The boards can have square or beveled edges. The type of edge shall be in accordance with the assemblies described in annex 1.

Joints in adjacent boards, where possible, shall be staggered over a minimum distance of 300 mm.

Mechanical fasteners

Fastening of the fire protective boards onto the support structure shall be in accordance with the assembly information provided in annex 1. The boards are fixed with 4,2 mm x 71 mm screws.

Surface treatment

The board surface allows most types of decoration.

When applying a surface treatment, the absorption capacity and alkalinity of the boards have to be taken into account.

Assessment of the influence of surface treatment (such as plastering, paints, tiles, wallpaper), on the performance of the boards, has not been performed in the framework of this ETA.

Assembly

The boards shall be applied as specified in the assemblies in annex 1.

4 Attestation and verification of constancy of performance (AVCP)

4.1 AVCP system

According to the decision 99/454/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.

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 2023-02-14 by



Thomas Bruun
Managing Director, ETA-Danmark

Annex 1
Fire protective ability

47 mm thick boards mounted on steel profiles have a fire protection ability classification of: **K₂ 60**

The classification is valid for the following end use conditions for the covering:

- For boards thickness of 47 mm or more. The screw length shall correspond to the board thickness, so it ensured that the screws penetrate the substrate with at least 24 mm
- For board size (width x height) up to 1000 x 1220 mm (or 590 x 1250 mm)
- A distance between adjoining boards of not more than 1 mm
- On all substrates
- Increase in height above 25 mm of the air gap (the cavity) behind the covering
- With closer spacing between the screws than 320 mm
- Horizontal, vertical and sloped application of the covering

The combined fire protection ability and reaction to fire class for the product is: **K₂ 60 A1**, which is valid under the end use conditions as described above