



CPC BELGELENDİRME MUAYENE VE
DENEY HİZMETLERİ TİC. LTD. ŞTİ.
Çamlıca Mah. (Timko Eti) Anadolu Blv.
No:20-R Blok No:4
Yenimahalle/Ankara
www.cpcert.org



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European Technical Assessment

ETA-22/0267
of (18.10.2022)

General Part

Technical Assessment Body issuing the European Technical Assessment:

CPC Belgelendirme Muayene ve Deney Hizmetleri Tic. Ltd. Şti.

Trade name of the construction product

KÇS THERMAXL

Product family to which the construction product belongs

Thermal insulation board made of mineral material

Manufacturer

KÇS Kahramanmaraş Çimento Beton Sanayi ve
Madencilik İşletmeleri A.Ş.

Manufacturing plant(s)

Osman Mah. Atatürk Bulvarı 3.Sk. No:9 Söke/ AYDIN

This European Technical Assessment contains

5 pages including 1 Annex which forms an integral
part of this assessment
Annex may contain confidential information and
is/are not included in the European Technical
Assessment when that assessment is publicly
disseminated

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

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Specific parts

1. Technical description of the product

The construction product is a thermal insulation board mainly made of mineral material, which can be calcium silicate, quartz powder, calcium hydrate and cement and, if applicable, additives, for example, a foaming agent and binding fibres. The insulation board can be high-pressure steam cured (autoclaved).

The construction product is hereinafter referred to as thermal insulation board.

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

The product is not covered by a harmonised European standard (hEN).

The geometric properties of insulation board are as follows:

Length	500-600 mm
Width	250-500 mm
Thickness	50-200 mm
<i>The insulation boards are produced with density 100-200 kg/m³</i>	

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

Insulation board is used for the thermal insulation of walls, roofs and ceilings/floors (can also be subjected to compressive load).

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

This European Technical Assessment applies, not to the kits that made using this board as a component but to the board only.

Insulation boards are glued board to board (no glue in the butt joints), on a load-bearing interior or exterior wall with suitable glue.

The assessment methods as laid down in this European Technical Assessment have been elaborated based on the assumption that the product is protected from precipitation, wetting or weathering in a built-in state and during transport, storage and installation and that it will not be used for construction elements with contact to water and soil.

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

No	Essential characteristic		Assessment method	Performance for product that is stated in referenced standards	Type of expression of product performance	
					Dimensions of test specimen	
					600*500*200 mm	500*250*50 mm
Basic Works Requirement 2: Safety in case of fire						
1	2.2.1. Reaction to fire		EN 13501-1	A1/S/D	A1	
Basic Works Requirement 3: Hygiene, health and the environment						
2	2.2.2. Content, emission and/or release of dangerous substances		EOTA TR 034	NPA		
3	2.2.3. Water vapour transmission (μ)		EN 12667	1,0-5,0	3,12	
Basic Works Requirement 6: Energy economy and heat retention						
4	2.2.4. Thermal conductivity (W/m.K)		EN 12667	S1 maximum 0,05	0,044	
5	2.2.5. Dimensions/Geometry	Length (mm)	EN 822	600	601	600,2
		Width (mm)	EN 823	500	500,2	500
		Thickness (mm)		50	49,7	49,8
6	2.2.6. Water absorption	2.2.6.1. Short term water absorption (kg/m²)	EN 1609-1 B	≤2,5	1,74	
		2.2.6.2. Long term water absorption (kg/m²)	EN 12087 Method 1B	≤5,0	3,79	
7	2.2.7. Density (kg/m³)		EN 1602	150±50	134,15	
8	2.2.8. Bending strength (kPa)		EN 12089	≥60	87,72	
9	2.2.9. Compressive stress/strength (kPa)		EN 826	≥0,15	0,366	
10	2.2.10. Dimensional stability		NPA			
11	2.2.11. Tensile strength perpendicular to faces (kPa)		EN 1607	≥60	81	
12	2.2.12. Behaviour under point load (mm)		EN 12430	≤1,0	0,79	
13	2.2.13. Porosity		NPA			

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

With regards to the reaction to fire for products covered by this EAD the applicable European legal act is Decision 1999/91/EC of the European Commission; System 4.

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

5.1 Task of the manufacturer

The cornerstones of the actions to be undertaken by the manufacturer of the product in the procedure of assessment and verification of constancy of performance are laid down in Table 3.1.

Table 3.1 Control plan for the manufacturer; cornerstones

No	Subject/type of control	Test or control method	Criteria, if any	Minimum number of samples	Minimum frequency of control*
Factory production control (FPC) [including testing of samples taken at the factory in accordance with a prescribed test plan]					
1	Reaction to fire	2.2.1	control plan	1	EN 13167, Annex B, Table B.2
2	Water vapour transmission	2.2.3.	control plan	1	Once a month
3	Thermal conductivity	2.2.4	control plan	1	Once a month
4	Dimensions/Geometry	2.2.5	control plan	2.2.5.1	Daily
5	Water absorption	2.2.6	control plan	2.2.6	Annually
6	Density	2.2.7	control plan	2.2.7	Daily
7	Bending strength	2.2.8	control plan	2.2.8	Annually
8	Compressive stress/strength	2.2.9	control plan	2.2.9	Daily
9	Tensile strength perpendicular to faces	2.2.11	control plan	2.2.11	Once a month
10	Behaviour under point load	2.2.12	control plan	2.2.12	Annually

* In case of discontinuous production these minimum frequencies should be adapted to an equivalent frequency.

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By

UĞUR GEDİK

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