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UTO

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

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ULUSAL TEKNİK ONAY

UTO

CPC-UTO-16/129

CPC Belgelendirme Muayene ve Deney Hizmetleri Tic. Ltd. Şti., Assigned as the UTO Organization with the Communiqué MGH / 2015-23 published in the Official Gazette No. 29579 dated 31/12/2015 by the Turkish Ministry of Environment and Urbanization..

Trade Name:	epsblock EB-200 (295X595X195)
UTO Subject:	Thermal Conductivity
UTO Holder:	ASRAN GRUP YAPI MLZ. VE KİMYA TARIM HAYVANCILIK GIDA TİC. LTD. ŞTİ.
Production place:	Zeytinli Mh. 94030 Sk. No:9/A1Seyhan/ADANA
Type and Usage of Building Material (Area Code):	Composite Masonry Unit - Use in interior and exterior walls (23)
Validity*:	30.11.2016 – 30.11.2021
Pages (Including Annexes):	5 (41)
AVCP:	4
CPC Certification Inspection and Experiment Services Trade. Ltd. Sti. It was issued by the company on 30.11.2016 due to deviation from the standard. * It is valid until 30.11.2021, with performance monitoring every year.	

Analysis	Unit	Value
Thermal Conductivity	λ (W/mK)	0,080

Annexes: Analysis report (18 pages), FPC report (18 pages)

Revision table		

Legal Basis

1. This CPC-UTO-16/129 CPC Belgelendirme Muayene ve Deney Hizmetleri Ltd. Sti. has been prepared and published in accordance with the legislation stated below by taking reference to the Guide Document coded TSE / UTO / RD 022.

1.1 Law on the Preparation and Application of Basic Legislation on Products No. 4703.

1.2 Construciton Product Regulation published in the Official Gazette dated 10.07.2013 and numbered 28703 (305/2011 / EU)

1.3 Regulation on the Criteria to be Subject to Construction Materials published in the Official Gazette dated 26.06.2009 and numbered 27270 Article 9.

2. This UTO, CPC Certification Inspection and Experiment Services Trade. Ltd. Sti. It cannot be given to any other person other than the above mentioned manufacturer and the production facility specified in UTO.

3. When deviation is detected in the factory production control plan and / or intended use, according to the article 15 of the Regulation on the Criteria to be Subject to Construction Materials, this UTO, CPC Belgelendirme Muayene ve Deney Hizmetleri Ltd. Sti. is suspended or canceled by.

4. The reproduction / printing of the UTO should be made in full text, including its transmission in electronic form. Partial printing of approval CPC Belgelendirme Muayene ve Deney Hizmetleri Ltd. Sti. can be done with permission. In this case, partial printing (texts and drawings in advertising brochures etc.) should not contradict UTO and should not contain misleading statements.

5. UTO is published in Turkish. Translation to other languages can be made by sworn translators. This translation is made by CPC Belgelendirme Muayene ve Deney Hizmetleri Ltd. Sti. can be used with approval.

6. The validity of UTO is 5 years and it remains valid if annual surveillance audit is performed.

SECTION 1: PRODUCT, SCOPE AND AVCP SUBJECT TO UTO

1.1 Rationale for UTO

This UTO; In order to determine the thermal conductivity value of masonry units; As stated in Article 9 of the Regulation on the Criteria to be Subject to Construction Materials, the materials that show deviations from the basic necessity include the issues related to the tests, production and assembly conditions, and the conformity confirmation system for the implementation of these technical approval procedures. Energy Saving and Heat storage verification must be carried out in terms of essential, since the claim that the thermal conductivity value of the products covered by this UTO is better than the table value specified in the "TS 825 - Heat insulation rules in buildings" standard, or that there is no value in the tables, "Energy saving and heat conservation" is considered as a deviation from the basic requirement.

1.2 Product (s) covered by UTO

"epsblock EB-200" is a composite masonry unit. The dimensions of the product; It is 295 X 595 X 95 mm. It will be named as product within the UTO.

1.3 Intended Use

It is used in interior and exterior walls in buildings.

1.4 Protective Provisions and Restrictions for the Purpose of Use

The product cannot be used outside the areas specified in Clause 1.3.

1.5 AVCP (Assessment on Verification of Constancy of Performance

As stated in the second paragraph of Article 9, "Regulation on Criteria to be Subject to Construction Materials"; "In cases where the basic requirement / requirements to which the construction work to be used is not present or deviates from the purpose of determining the suitability of the relevant material for its intended use, the received UTO is considered as the basic requirement and the related construction work can be designed according to the performance values of that material. If a harmonized or national standard is found about the relevant material, the safe product is accepted without a marking within the frame of technical approval." G is not marked on the product.

The confirmation system of the product was determined as 4 by the European Commission decision 97/740 / EC.

SECTION 2: BASIC REQUIREMENTS AND VERIFICATION METHODS

2.1 Safety in Case of Fire

Building materials laid down in the EU Commission Resolution 2000/605 / EC, which lists the list of A1 class materials that do not contribute to the fire, and the official newspaper and building materials regulation dated 30.07.2012 and numbered 28364, dated 25.07.2012. 2011 / EU), the communiqué on fire reaction classes of building materials, fire resistance of building elements, and the external fire performance of roof and roof coverings (COMMUNIQUE: MHG / 2012-05) without reaction testing performance classes, It is evaluated as A1 and A1fl.

2.2 Energy Saving and Heat Storage

Energy Saving and Thermal Conservation, since the claim that the thermal conductivity value of the products covered by this UTO is better than the table value specified in the "TS 825 - Heat insulation rules in buildings" standard, or that there is no value in the tables, "Energy saving and heat conservation" is considered as a deviation from the basic requirement. verification must be carried out in terms of essential.

λ (Thermal conductivity calculation value λh) is determined on the samples according to TS EN 8990 standard. (Table 1).

Table 1. "epsblock EB-200" Thermal Conductivity Values

Analysis	Unit	Value
Equivalent thermal conductivity value of single masonry unit in dry condition	λ (W/mK)	0,080
Thermal transmittance coefficient	U (W/m^2K)	0,381
Thermal resistance	R (m^2K/W)	2,454
Gross dry volume mass (Average)	kg/m^3	378
Net dry volume mass (Average)	kg/m^3	378
Water vapor diffusion resistance factor	μ	8,64

SECTION 3: PRODUCTION CONDITIONS

Required conditions are valid in TS EN 771-3 "Insulating laminated sandwich masonry unit" standard. The responsibilities of the producer and the certification body are specified in Table 2 for the product covered by System 4.

Table 2. Responsibilities of producer and UTO Certification institution

Responsibilities		Task Content
Manufacturer responsibilities	Factory manufacturing control	Parameters for all characteristics related to the intended use in Table 1
	Further experiments of samples taken from the factory (at least once a year)	All characteristics related to the intended use in Table 1
UTO certification body responsibilities	Type tests	Characteristics related to the use designed in Table 1

SECTION 4: TRANSPORT, PACKAGING, SHELF LIFE AND INSTALLATION CONDITIONS ON THE SITE

Required conditions are valid in TS EN 771-3 standard.

SECTION 5: PROTECTIVE PROVISIONS FOR PREVENTING USE FOR NON-PURPOSE OF UTO

The product subject to the UTO will be used by the manufacturer for the purpose of using Article 1.3 for this UTO. CPC Belgelendirme Muayene ve Deney Hizmetleri Ltd. Sti. After technical approval, conformity assessment verification is performed. Factory production control system requirements are met.

SECTION 6: REFERENCES

TSE / UTO / RD 022 UTO Guidance Document for Determination of Thermal Account Values of Masonry Units, 2016, TSE, Ankara (TSE / UTO / RD 02 Rev01. CPC, CPC Certification Inspection Testing Services Co., 2016, CPC, Ankara)
TS 13565 "Sandwich masonry unit with insulation layer", 2013, TSE, Ankara.
TS 825 "Thermal insulation rules in buildings", 2013, TSE, Ankara
TS EN ISO 12572 Performance of materials and products used in buildings related to the relationship between heat and moisture - Determination of water vapor transmission properties, 2001, TSE, Ankara
TS EN 1745 "Masonry and masonry products - Methods for determination of thermal properties", 2012, TSE, Ankara
Communiqué on Conformity Verification Systems to be Subject to the Construction Materials Regulation (89/106 / EEC) published in the Official Gazette dated July 26,

2012 and numbered 28365 (89/106 / EEC) and the Criteria to be Subject to Construction Materials.
Implementing Regulation on the Criteria to be Subject to the Construction Materials published in the Official Gazette dated 26 June 2009 and numbered 27270
European Commission decision 97/740 / EC of 14 November 1997, Brussels, Belgium

This UTO, was examined and approved by UTO / ETA Committee of CPC Belgelendirme Muayene Deney Hizmetleri Ltd. Sti. and its decision dated 30.11.2016.

Uğur GEDİK
CPC Belgelendirme Muayene Deney Hizmetleri Ltd. Şti.
General Manager