

European Technical Assessment



Łukasiewicz

Institute
of Ceramics
and Building
Materials



European Technical Assessment

ETA-23/0534
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General Part

Technical Assessment Body issuing the European Technical Assessment:
Łukasiewicz Research Network – Institute of Ceramics and Building Materials

Trade name of the construction product	Ceresit Therm System
Product family to which the construction product belongs	04: External Thermal Insulation Composite Systems (ETICS) with renderings
Manufacturer	Henkel Polska Sp. z o.o. Domaniewska 41, 02-672 Warszawa, POLAND
Manufacturing plants	Plant 1 ÷ Plant 9
This European Technical Assessment contains	25 pages including 2 Annexes which form an integral part of this assessment. Annex No 3 Control Plan and No 4 Identification of manufacturing plants contain confidential information and is 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 040083-00-0404 ed. January 2019 – External Thermal Insulation Composite Systems (ETICS) with renderings

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Specific part

1. Technical description of the product

This product Ceresit Therm System is an External Thermal Insulation Composite System (ETICS) with renderings - a kit comprising components which are factory-produced by the manufacturer or component suppliers. The ETICS manufacturer is ultimately responsible for all components of the ETICS specified in this ETA.

The ETICS kit comprises a prefabricated insulation product – PIR boards to be bonded. The method of fixing and the relevant components are specified in Table 1. The insulation product is faced with a rendering system consisting of one or more layers (site applied), one of which contains reinforcement. The rendering is applied directly to the insulating panels, without any air gap or disconnecting layer.

The ETICS may include special fittings (e.g. base profiles, corner profiles) to treat details of ETICS (connections, apertures, corners, parapets, sills). Assessment and performance of these components is not addressed in this ETA, however the ETICS manufacturer is responsible for adequate compatibility and performance within the ETICS when the components are delivered as a part of the kit.

Table 1

	Components	Coverage (kg/m ²)	Thickness (mm)
Bonded ETICS or bonded ETICS with supplementary mechanical fixings. National application documents shall be taken into account.			
Insulation materials with associated methods of fixing	• Insulation product: PIR boards according to EN 13165 <i>Product characteristics - see Annex No 1</i>	-	50 to 200
	• Adhesives: - Ceresit ZS / Ceresit CT 81 Cement based powder requiring addition of 0,19-0,21 l/kg of water - Ceresit CT 83 Cement based powder requiring addition of 0,19-0,21 l/kg of water - Ceresit CT 85 Cement based powder requiring addition of 0,26-0,28 l/kg of water - Ceresit CT 87 Cement based powder requiring addition of 0,26-0,28 l/kg of water	about 5,0 (powder) about 5,0 (powder) about 5,0 (powder) about 4,0 (powder)	- - - -
	• Supplementary mechanical fixings: Plastic anchors covered by relevant ETA	-	-
	• Ceresit ZU / Ceresit CT 82 Cement based powder requiring addition of 0,18-0,20 l/kg of water	about 5,0 (powder)	3,0 to 5,0
Reinforce-ment	• Standard glass fibre mesh: - CT 325 <i>Products characteristics - see Annex No 2</i>	-	-
Key coats	• Ceresit CT 15 Ready to use liquid to be used with silicate finishing coat Ceresit CT 72	0,3 to 0,5	-
	• Ceresit CT 16 Ready to use liquid to be used with mineral, acrylic, silicate-silicone and silicone finishing coats	0,3 to 0,3	-

Table 1. cont.

	Components	Coverage (kg/m ²)	Thickness (mm)
Finishing coats	Mineral finishing coat Ceresit CT 35 Cement based powder requiring addition of 0,20-0,22 l/kg of water ribbed structure max. particles size: 2,5 mm	2,5 to 3,0 (powder)	Regulated by particles size
	Mineral finishing coat Ceresit CT 137 Cement based powder requiring addition of 0,22-0,23 l/kg of water floated structure max. particles size: 1,5 mm	2,5 to 4,0 (powder)	
	Cement based powder requiring addition of 0,17-0,19 l/kg of water floated structure max. particles size: 2,0 mm	3,0 to 3,2 (powder)	
	Acrylic finishing coat Ceresit CT 60 Ready to use paste – acrylic binder floated structure max. particles size: 1,5 mm 2,0 mm 2,5 mm	about 2,5 3,1 to 3,3 3,8 to 4,2	
	Acrylic finishing coat Ceresit CT 79 Ready to use paste – elastomeric binder floated structure max. particles size: 1,5 mm	2,3 to 2,5	
	Silicate finishing coat Ceresit CT 72 Ready to use paste – silicone-acrylic binder floated structure max. particles size: 1,5 mm 2,0 mm 2,5 mm	2,1 to 2,5 3,1 to 3,4 3,8 to 4,0	

Table 1. cont.

	Components	Coverage (kg/m ²)	Thickness (mm)
Finishing coats	• Silicone finishing coat Ceresit CT 74 Ready to use paste - silicone binder floated structure max. particles size: 1,5 mm 2,0 mm 2,5 mm • Silicate-silicone finishing coat Ceresit CT 174 Ready to use paste – silicate-silicone binder floated structure max. particles size: 1,5 mm 2,0 mm	2,1 to 2,5 3,1 to 3,4 3,8 to 4,0 2,1 to 2,5 3,1 to 3,4	Regulated by particles size
Decorative coats (paints)	• Acrylic paint Ceresit CT 42 Ready to use pigmented liquid to be used optionally with all finishing coats • Silicone paint Ceresit CT 48 Ready to use pigmented liquid to be used optionally with all finishing coats • Nanosilicone paint Ceresit CT 49 Ready to use pigmented liquid to be used optionally with all finishing coats • Silicate paint Ceresit CT 54 Ready to use pigmented liquid to be used optionally with all finishing coats	about 0,3 l/m ² about 0,3 l/m ² about 0,3 l/m ² about 0,3 l/m ²	- - - -
Ancillary materials	Remain under the manufacturer's responsibility		

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

This ETICS is intended to be used on new or existing (retrofit) vertical building walls. The ETICS may also be used on horizontal or inclined surfaces which are not exposed to precipitation.

The ETICS gives the building wall to which it is applied additional thermal insulation and protection from effects of weathering. ETICS are non-load-bearing construction elements. They do not contribute directly to the stability of the building wall on which they are installed.

ETICS are not intended to ensure the air tightness of the building structure.

Concerning product packaging, transport and storage it is the responsibility of the manufacturer to undertake the appropriate measures and to advise his clients on the transport and storage, as he considers necessary in order to reach the declared performances.

The information about installation is provided with the technical documentation from the Manufacturer and it is assumed that the product will be installed according to it or (in absence of such instructions) according to the usual practice of the building professionals.

The performances assessed in this European Technical Assessment, according to the applicable EAD, are based on an assumed intended working life of at least 25 years, provided that the conditions for the packaging, transport, storage, installation as well as appropriate use, maintenance and repair are met. The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer, 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.

The ETICS belongs to Category S/W2 according to EOTA Technical Report No 034.