

European Technical Assessment

ETA 20/ 0086
29/ 09/ 2022

English translation prepared by IETcc. Original version in Spanish language

General Part

Technical Assessment Body issuing the European Technical Assessment:
Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc)

Trade name of the construction product

Sistema GEOPET NOISEFREE

Product family to which the construction product belongs

Factory-made thermal and/or acoustic insulation products made of sheep wool fibres

Manufacturer

ANGEL RUIZ IBAÑEZ, S.A.
C/ Las Cañas 101. Pol. Ind. Cantabria II
26009 LOGROÑO (La Rioja) Spain.
www.geopanel.com

Manufacturing plant(s)

C/ Las Cañas 101, Polígono Industrial Cantabria II. 26006 Logroño (La Rioja)

This European Technical Assessment contains

5 pages
Annex 1 contains 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

European Assessment Document (EAD) N° 0400288-00-1201 for "Factory-made thermal and/or acoustic insulation products made of polyester fibres", April 2016

This version replace

ETA 20/0086 of 13/ 03/ 2020

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SPECIFIC PARTS

1 Technical description of the product

This European Technical Assessment applies to the factory-made thermal products made of vegetable fibres denominated as: "GEOPET NOISEFREE". It is installed in accordance with the manufacturer, design and installation instructions, deposited at IETcc⁽¹⁾. The manufacturer is ultimately responsible for the GEOPET NOISEFREE, which it consisted by mats made of polyester fibres. This system is constituted by:

Characteristics	GEOPET NOISEFREE anthracite, black and white
Vegetal fiber	POLYESTER 100 %
Binding agent (%)	0 %
Facing	No
Thickness (mm)	10 to 100
Length	Per client requirements
Width	Per client requirements
Density (kg/m ³)	30 ± 15%

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

2.1 Intended use(s)

The insulation products are intended to be used within buildings for insulation of walls, ceilings, floors, roofs, between rafters and timber work.

The insulation products are not intended to be used for external applications.

The insulation can be used in the in the following places:

- Insulation of interior and exterior wall cavities with wooden or metallic frame and similar structures.
- Internal insulation of external walls between elements of a supporting structure.
- Insulation between rafters and beams as well as in cavities of a supporting structure.
- Insulation of ceilings or roofs. Insulation under the supporting structure, suspended ceilings.
- Insulation of cavities between floor joints and similar lower structures.
- Insulation of floors of accessible upper floors, without being intended for any circulation.

2.2 Relevant general conditions for the use of the kit

The provisions made in this European Technical Assessment are based on an assumed working life of 25 years from installation in the works, according to EAD 0400288-00-1201, provided that the conditions lay down for the installation, packaging, transport and storage as well as appropriate use, maintenance and repair are met. In this respect.

The indications given on the working life cannot be interpreted as a guarantee given neither by the product manufacturer nor by EOTA nor by the Technical Assessment Body issuing this ETA, but are regarded only as a means for choosing the right product 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

The identification tests and the assessment for the intended use of this thermal and acoustic insulation according to the Basic works requirements were carried out in compliance with the EAD "Factory-made thermal and/or acoustic insulation products made of polyester fibres".

(1) The technical documentation of this European Technical Assessment is deposited at the *Instituto de Ciencias de la Construcción Eduardo Torroja* (IETcc) and, as far as relevant for the tasks of the approved bodies involved in the attestation of conformity procedure, is handed over to the approved bodies.

3.1 Mechanical resistance and stability (BWR 1)

Basic requirement for construction works 1: Mechanical resistance and stability		
Essential characteristic	Relevant clause in EAD	Performance
Corrosion developing capacity on metal constructions	2.2.1	Pass

3.2 Safety in case of fire (BWR 2)

Basic requirement for construction works 2: Safety in case of fire		
Essential characteristic	Relevant clause in EAD	Performance
Reaction to fire	2.2.2	B-s1, d0

3.3 Hygiene, health and environment (BWR 3)

Basic requirement for construction works 3: Hygiene, health, and the environment		
Essential characteristic	Relevant clause in EAD	Performance
Water absorption	2.2.3	0,3 kg/m ²
Water vapour diffusion resistance	2.2.4	NPA
Air permeability	2.2.5	NPA

3.4 Protection against noise (BWR 5)

Basic requirement for construction works 5: Protection against noise										
Essential characteristic	Relevant clause EAD	Performance								
		Thickness (mm)	Frecuency (Hz)	125	250	500	1000	2000	4000	α_w
Sound absorption	2.2.6	30	ap	0,15	0,35	0,55	0,7	0,7	0,75	0,6
		40	ap	0,15	0,45	0,7	0,8	0,8	0,8	0,7
		60	ap	0,34	0,69	1,00	0,97	0,86	0,89	0,9

3.5 Energy economy and heat retention (BWR 6)

The thermal resistance provided by this product to the support is calculated in accordance with EN ISO 6946 from the nominal value of the insulation product's thermal resistance R given.

Basic requirement for construction works 6 : Energy economy and heat retention								
Essential characteristic	Relevant clause EAD		Performance					
			Category 1 (base on λ 10/dry,90/90)			Mass-related moisture conversion coefficient to high moisture (fu,2)	Moisture conversion factor (dry-23/50 and 23/50-23/80)	
Thermal conductivity	2.2.7	GEOPET NOISEFREE	λ 10/dry,90/90	Moisture factor conversion (Fu,1)	λD (23,50)		- 0,25	Fm1 λ 10,dry- λ 23,50
		Anthracite - black	0.0367	- 0,73	0,037	0,99		1,01
		White	0.0353	-1,70	0,035	1,58		0,99
Dimensional stability	2.2.8		23 °C/ 90 %HR 48h ($\Delta\epsilon_l$, $\Delta\epsilon_b$, $\Delta\epsilon_d$) : 0,03 %					
Tensile strength(parallel to faces)	2.2.9		54 kPa \geq 10kPa (requisito)					

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

4.1 System of assessment and verification of constancy of performance

According to the decision 1999/91/EC of the European Commission ⁽²⁾ amended by 2001/596/EC ⁽³⁾ the system of assessment and verification of constancy of performance (see Annex V to Regulation (EU) n° 305/2011) given in the following table applies.

Product	Intended uses	Level or Classes	System
GEOPET NOISEFREE	Factory-made thermal and/or acoustic insulation products made of sheep wool fibres	Any	3

According to this decision, system 3 of Attestation of Conformity also applies with regard to external fire performance. The system 3 provides: Tasks for the manufacturer: Factory production control and Tasks for the approved body: Initial type-testing of the product.

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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan which is deposited at IETcc⁽⁴⁾.

5.1 Tasks of the manufacturer

Factory production control. The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results performed. This production control system shall ensure that the product is in conformity with this ETA.

The manufacturer may only use components stated in the technical documentation of this ETA including Control Plan. The incoming raw material is subjected to verifications by the manufacturer before acceptance.

The factory production control shall be in accordance with the Control Plan⁽⁵⁾ which is part of the Technical Documentation of this ETA. The Control Plan has been agreed between the manufacturer and the IETcc and is laid down in the context of the factory production control system operated by the manufacturer and deposited at the IETcc. The results of factory production control shall be recorded and evaluated in accordance with the provisions of the Control Plan.

Other tasks of the manufacturer. The manufacturer shall, on the basis of a contract, involve a body which is notified for the tasks referred to in section 4 in order to undertake the actions laid down in this clause. For this purpose, the control plan shall be handed over by the manufacturer to the notified bodies involved.

For initial type – testing, the results of the tests performed, as part of the assessment for the ETA shall be used unless there are changes in the production line or plant. In such cases, the necessary initial type- testing has to be agreed with the IETcc.

The manufacturer shall make a declaration of conformity, stating that the construction product is in conformity with the provisions of this ETA.

⁽²⁾ Official Journal of the European Communities L229/14 of 20.08.1997

⁽³⁾ Official Journal of the European Communities L209/33 of 02.08.2001

⁽⁴⁾ The Control Plan is a confidential part of the ETA and only handed over to the notified certification body involved in the assessment and verification of constancy of performance.

⁽⁵⁾ The control plan is a confidential part of this European Technical Assessment and only handed over to the notified body involved in the procedure of attestation of conformity. See section 3.2.2.

5.2 Tasks of notified bodies. The notified body shall perform

Initial type-testing of the product. The initial type-testing have been conducted by the IETcc to issued this ETA in accordance with chapter 2 of the EAD 0400288-00-1201 for “Factory-made thermal and/or acoustic insulation products made of polyester fibres”. The verifications underlying this ETA have been furnished on samples from the current production; these will replace the initial type-testing carried out by the manufacturer. The IETcc has assessed the results of these tests in accordance with chapter 2 of this EAD, as part of the ETA issuing procedure.

Issued in Madrid on 29 september 2022

By

Director

on behalf of Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc – CSIC)

