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DE LA CONSTRUCCIÓN  
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## European Technical Assessment

**ETA 21/ 0917**  
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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**

**PASSIV OUATECO**

**Product family to which the construction product belongs**

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

**Manufacturer**

**OUATECO**

Zone Atlantisud, Rue du pays d'Orthe, 40230 Saint-Geours-de-Maremne, France

**Manufacturing plant(s)**

Plant 1.

**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° 040005-00-1201 for "Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres"

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

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential Annex(es) referred to above). However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

## 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: "PASSIV OUATECO". It is installed in accordance with the manufacturer, design and installation instructions, deposited at IETcc<sup>(1)</sup>. The manufacturer is ultimately responsible for the PASSIV OUATECO, which it consisted by mats made of cotton fibres. This system is constituted by:

Characteristics	PASSIV OUATECO
Vegetal fiber	Fibre of cotton (%)
Binding agent bi-component polyester (%)	15 - 25
Binding agent Phenolic (%)	---
Facing	No
Thickness (mm)	40 - 200
Length	Per client requirements
Width	Per client requirements
Conductividad térmica ( $\lambda$ D)	0.037

### 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 from installation in the works, according to EAD 040005-00-1201, 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 Basis works requirements were carried out in compliance with the EAD "Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres", June 2015

(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 notified bodies involved in the attestation of conformity procedure, is handed over to the notified bodies.

### 3.1 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			
		System composition	Thickness (mm)	Density (kg/m <sup>3</sup> )	Fire reaction classification EN 13501-1
Reaction to fire	2.2.1	PASSIV OUATECO	-----	-----	NPA

### 3.2 Hygiene, health and environment (BWR 3)

**Biological resistance** (2.2.2 EAD). Growth of mould fungus (annex B). After 28 days, the growth intensity is 0. There is not any sign of fungus in any product of the system.

### 3.3 Protection against noise (BWR 5)

Basic requirement for construction works 5: Protection against noise		
Essential characteristic	Relevant clause in EAD	Performance
Specific airflow resistivity	2.2.4	NPA
Dynamic stiffness	2.2.5	NPA
Impact sound reduction	2.2.6	NPA
		NPA
Compressibility	2.2.7	NPA.
Sound absorption	2.2.8	NPA.

### 3.4 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.

**Thermal conductivity** (EAD 2.2.9).

PASSIV OUATECO	Category 1 (base on $\lambda$ 10/dry,90/90)			Mass-related moisture conversion coefficient to high moisture ( $f_{u,2}$ )	Moisture conversion factor (dry-23/50 and 23/50-23/80)	
	$\lambda$ 10/dry,90/90	Moisture factor conversion ( $F_{u,1}$ )	$\lambda_D$ (23,50)		Fm1 $\lambda_{10,dry-\lambda_{23,50}}$	Fm2 $\lambda_{23/50-\lambda_{23,80}}$
	0,0358	-0,60	0,037	-1,03	0,97	1,03

Essential characteristic	Relevant clause EAD	PASSIV OUATECO
Water vapour diffusion resistance	2.2.10	1 - 4
Water absorption	2.2.11	14 kg/m <sup>2</sup>
Geometry	2.2.12	Thickness: T1 (15 %)
		Length: Nominal value $\pm$ 2 %
		Width: Nominal value $\pm$ 1.5 %
Density	2.2.13	28 kg/m <sup>3</sup>
Flatness after one-sided wetting	2.2.14	NPA
Compressive stress or strength	2.2.15	NOPA
Dimensional stability under specified temperature and humidity	2.2.16	70 °C 48 h ( $\Delta\epsilon_l, \Delta\epsilon_b, \Delta\epsilon_d$ ) : 0, 0, 3 DS (70,-) 3
		70 °C/ 90 % HR 48h ( $\Delta\epsilon_l, \Delta\epsilon_b, \Delta\epsilon_d$ ) : 0, 0, 3 DS (70,-) 3
Deformation under specified compressive load and T °C condition 20 kPa	2.2.17	NPA
Resistencia a tracción entre caras (paralelas)	2.2.18	30 kPa
Tensile strength parallel	2.2.19	NPA
Tensile strength perpendicular to faces	2.2.20	NPA
Tensile strength perpendicular to faces in wet conditions	2.2.21	NPA
Compressive creep	2.2.22	NPA
Behaviour under point load	2.2.23	NPA

## 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 <sup>(2)</sup> amended by 2001/596/EC <sup>(3)</sup> 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
PASSIV OUATECO	Factory-made thermal and/or acoustic insulation products made of cotton 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 notified 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<sup>(4)</sup>.

### 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 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.

### 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 040005-00-1201 "Factory-made thermal and/or acoustic insulation products made of vegetable or animal 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.

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

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

<sup>(4)</sup> 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.

Issued in Madrid on 15 october 2021

By



Director

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