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European Technical Assessment ETA 25/1101 of 05/01/2026

GENERAL PART

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains:

This European Technical Assessment is issued in accordance with Regulation (EU) n° 305/2011, on the basis of

ISOBELL

**PAC 4: THERMAL INSULATION PRODUCTS.
COMPOSITE INSULATING KITS/SYSTEMS.
Factory-made thermal and acoustic
insulation made of polyester fibres**

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**6 pages, including 2 annexes which form an
integral part of this assessment**

**EAD 040288-00-1201 – Factory-made thermal
and acoustic insulation made of polyester
fibres**

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SPECIFIC PARTS

1. TECHNICAL DESCRIPTION OF THE PRODUCT

ISOBELL is a thermal insulation product and consists of thermally bonded polyester recycled fibres, coated on both sides with a water-based acrylic resin enriched with micro-expanding agents. **ISOBELL** is produced in form of rolls of $m 0.95 \pm 1\%$ height. The nominal thickness of the product is $5 \text{ mm} \pm 10\%$. The manufacturer has specified an area density of $700 \text{ g/m}^2 \pm 7\%$.

2. SPECIFICATION OF THE INTENDED USE IN ACCORDANCE WITH EUROPEAN ASSESSMENT DOCUMENT N° 040288-00-1201 (hereinafter EAD)

ISOBELL is intended to be used in buildings as thermal insulation of walls, floors, intermediate floors, ceilings and partitions. The product is to be used in constructions where it is not exposed to wetting, weathering, heavy moisture transport, condensation, wind or compression loads.

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 specifications and conditions given by the manufacturer are summarized in Annex A.

The performances assessed in this European Technical Assessment, according to the applicable EAD, are based on an assumed intended working life of at least 50 years, provided that the conditions for 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.

3. PERFORMANCE OF THE PRODUCT AND REFERENCES TO THE METHODS USED FOR ITS ASSESSMENT

The tests for performance assessment of **ISOBELL** were carried out in compliance with EAD 040288-00-1201 according to the test methods reported herein, as well for what concerns sampling, conditioning and testing provisions.

The numbering (#) in the following tables corresponds to the numbering of Table 1 of EAD 040288-00-1201.

3.1 MECHANICAL RESISTANCE AND STABILITY (BWR 1)

#	Essential characteristic	Performance
1	Corrosion developing capacity on metal constructions	No performance assessed.

3.2 SAFETY IN CASE OF FIRE (BWR 2)

#	Essential characteristic	Performance
2	Reaction to fire	Class E

3.3 HYGIENE, HEALTH AND THE ENVIRONMENT (BWR 3)

#	Essential characteristic	Performance
3	Water absorption	No performance assessed.
4	Water vapour permeability	See Annex B, Table B1.
5	Air permeability	No performance assessed.

3.4 PROTECTION AGAINST NOISE (BWR 5)

#	Essential characteristic	Performance
6	Sound absorption	No performance assessed.

3.5 ENERGY ECONOMY AND HEAT RETENTION (BWR 6)

#	Essential characteristic	Performance
7	Thermal conductivity	See Annex B, Table B2.
8	Dimensional stability	No performance assessed.
9	Tensile strength parallel to faces	No performance assessed.

4. ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE (AVCP) SYSTEM APPLIED, WITH REFERENCE TO ITS LEGAL BASE

In accordance with the European Assessment Document EAD No. 040288-00-1201 the applicable European legal act is: **Commission Decision 1999/91/EC**, as amended by **Commission Decision 2001/596/EC**.

The system of assessment and verification of constancy of performance (AVCP) is **3**.

In addition, with regard to reaction to fire for products, the applicable European legal act is **1999/91/EC**, as amended by **Commission Decision 2001/596/EC**.

The system of assessment and verification of constancy of performance (AVCP) is **3**.

5. TECHNICAL DETAILS NECESSARY FOR THE IMPLEMENTATION OF THE AVCP SYSTEM, AS PROVIDED FOR IN EAD 040288-00-1201

Technical details necessary for the implementation of the AVCP system are laid down in the Control Plan deposited at ITAB/ITC-CNR.

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SPECIFICATION OF INTENDED USE

➤ INSTALLATION CONDITIONS

Preparation of the substrate

Before applying the product, it has to be checked that the substrate is clean, dry and free of unstable fragments. The manufacturer advises to apply a layer of fixative by using a brush in order to facilitate the adhesion of the next layer. After the fixative has dried out, the next step consists in laying a suitable adhesive product, which shall be evenly applied onto the surface.

➤ INSTALLATION INSTRUCTIONS

Application of the ISOBELL

The product does not need to be mechanically fixed but it is applied directly onto the adhesive layer by slightly pressing on its surface so as to ensure that it has perfectly adhered. The product, cut to size and shaped according to the required dimensions, in form of a mat can be easily adapted on site by modelling, even when architectural elements such as cornices, windowsills or decorative elements that have to be preserved are present or when the surface is not perfectly planar.

After the mat has been laid, should bubbles or detached areas possibly appear during a visual inspection aimed at verifying that the mat adheres properly to the substrate, they will have to be removed by manually stretching slightly its surface.

Application of the finish

After the complete drying of the adhesive bonding, it is possible to start with the application of the finishing product, which is outside the purpose of this ETA. ISOBELL can either be interposed in between different material layers (for example, plasterwork, insulating panels, drywalls, decorative systems) or be applied as external layer. In this latter case the finishing could consist in a cladding system, dry-assembled, in plaster coatings, wall paintings or decorative systems. The manufacturer recommends that vapour permeable finishing products are used, in order to preserve unchanged the thermal hygrometric properties of the system.

ISOBELL	Annex A of ETA N° 25/1101
Intended Use – Specifications and installation instructions	

Table B1: Water vapour permeability

Characteristic	Symbol	Unit	Value
Product thickness	d	[m]	0.005
Water vapour permeability	δ	[mg / (m·h·Pa)]	0.0217
Water vapour resistance factor	μ	//	33

Table B2: Thermal conductivity and moisture conversion coefficient at 23 °C/50% R.H.

Characteristic	Symbol	Unit	Value
Thermal conductivity declared value for a moisture content of the product at 23 °C and 50% R.H.	$\lambda_{10,D,(23,50)}$	[W/m · K]	0.036
Equilibrium moisture content (23 °C / 50% R.H.)	$u_{23,50}$	[kg/kg]	0.01
Mass-related moisture conversion coefficient (dry - 23/50)	f_u	[-]	0.74
Moisture conversion factor (dry - 23/50)	F_m	[-]	1.01

ISOBELL

Performances – Water vapour permeability and thermal conductivity

Annex B
of ETA N° 25/1101