



## Designated according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022)

UK Technical Assessment	UKTA-0836-25/7362 of 07/04/2025
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	Termex, Termex Green
Product family to which the construction product belongs:	Product code – 04 Thermal insulation products. Composite insulating kits/systems.
Manufacturer:	Termex-Eriste Oy Ilolantie 14 FI-43100 Saarijärvi Finland
Manufacturing plant(s):	Termex-Eriste Oy Rajalantie 3 FI-43100 Saarijärvi Finland
This UK Technical Assessment contains:	6 pages
This UK Technical Assessment is issued in accordance with The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022) on the basis of:	UKAD 040138-01-1201 <i>In-situ formed loose fill thermal and/or acoustic insulation products made of vegetable fibres</i>

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## **1. Technical description of the product**

This European technical assessment applies to thermal insulation materials with designation Termex and Termex Green

The product consists of cellulose fibers manufactured by mechanically crushing recycled paper. The product contains flame retardants added during the manufacturing process.

The insulation is supplied as loose fill for mechanical installation in dry or wet condition. Density of the installed product is 26 to 60 kg.m<sup>-3</sup> depending on the area of application.

## **2. Specification of the intended use(s) in accordance with the applicable UK Assessment Document (hereinafter UKAD)**

### **2.1 Intended use**

The product is intended to be used as thermal insulation in roof cavities, walls and floors, between rafters and timber works.

Product density in different applications:

- Open blow applications, dry installation on attics and intermediate floors, density 26 to 42 kg.m<sup>-3</sup>
- Open blow applications, wet installation on attics and walls 26 to 42 kg.m<sup>-3</sup>
- Dense pack applications, vertical, horizontal or pitched cavity applications, dry installation, density 42 to 60 kg.m<sup>-3</sup>.

The product can be used in structures where it will not be exposed to compression loads, precipitation, wetting or weathering and in construction elements with no contact to water or soil and in constructions with no risk of heavy moisture exposure.

### **2.2 Working life/durability**

The provisions made in this UK Technical Assessment are based on an assumed intended working life of 50 years when installed in the works provided that the thermal insulation product is subject to appropriate installation.

The indication given as to the working life of the construction product cannot be interpreted as a guarantee neither given by the product manufacturer or his representative nor by the Technical Assessment Body issuing this UKTA, but is regarded only as a means for expressing the expected economically reasonable working life of the product.

### 3. Performance of the product and references to the methods used for its assessment

*Table 1 Basic requirements for construction works and essential characteristics*

<b>Basic requirement and essential characteristics</b>	<b>Performance</b>
BWR 2. Safety in case of fire Reaction to fire	Clause 3.1
BWR 3. Hygiene, health and the environment Biological resistance	Clause 3.2
BWR 5. Protection against noise Sound absorption	No performance assessed
BWR 6. Energy economy and heat retention Thermal conductivity	Clause 3.6
Water vapour diffusion resistance	Clause 3.6
Water absorption	No performance assessed
Corrosion developing capacity	Clause 3.6
Settlement	Clause 3.6
Critical moisture content	No performance assessed
Specific airflow resistivity	Clause 3.6
Hygroscopic sorption properties	No performance assessed

#### 3.1. Mechanical resistance and stability (BWR 1)

Not relevant.

#### 3.2. Safety in case of fire (BWR 2)

##### Reaction to fire

Reaction to fire is classified according to Commission Delegated Regulation (EU) 2016/364 in connection with EN 13501-1.

<b>End use application</b>	<b>Performance</b>
Density 26 to 60kg.m <sup>-3</sup> - Insulation layer thickness ≥ 200 mm - Substrates with minimum reaction to fire class A2-s3, d0 and gypsum board	B-s2, d0
Density 26 - 60 kg.m <sup>-3</sup> - Insulation layer thickness ≥ 40 mm	E

#### 3.3. Health, hygiene and the environment (BWR 3)

##### Biological resistance

Resistance to mould fungus has been determined according to Annex B of UKAD 040138-01-1201.

<b>Characteristics</b>	<b>Performance</b>
Biological resistance	Class 0

#### 3.4. Safety and accessibility in use (BWR 4)

Not relevant.

#### 3.5. Protection against noise (BWR 5)

Not relevant.

#### 3.6. Energy economy and heat retention (BWR 6)

##### Thermal conductivity

Thermal conductivity of the insulation material has been determined according to Annex A of UKAD 040138-01-1201. Results apply to density range 26 to 60 kg.m<sup>-3</sup>.

Characteristics		Performance
Lambda fragile value at 10°C, at dry conditions	$\lambda_{10,dry,90/90}$	0.0372 W.m <sup>-1</sup> .K <sup>-1</sup>
Lambda declared at 23°C and 50 % RH	$\lambda_{D(23,50)}$	0.038 W.m <sup>-1</sup> .K <sup>-1</sup>
Moisture content at 23°C and 50 % RH	$u_{23,50}$	0.0640 kg.kg <sup>-1</sup>
Moisture content at 23°C and 80 % RH	$u_{23,80}$	0.0116 kg.kg <sup>-1</sup>
Mass-related moisture conversion coefficient	$f_{u,1}$	0.164 kg.kg <sup>-1</sup>
Mass-related moisture conversion coefficient to high moisture content	$f_{u,2}$	0.191 kg.kg <sup>-1</sup>
Moisture conversion factor dry-23/50	$F_{m1}$	1.011
Moisture conversion factor 23/50-23/80	$F_{m2}$	1.010

#### Corrosion developing capacity

Corrosion developing capacity has been tested according to EN 15101-1, Annex E.

Characteristics	Performance
Corrosion developing capacity - dry installed product	Class CR

#### Water vapour diffusion resistance

Water vapour diffusion resistance has been determined according to standard EN 12086. Test atmosphere set A (23°C - 0/50%RH).

Characteristics	Performance
Water vapour resistance factor $\mu$	1.4

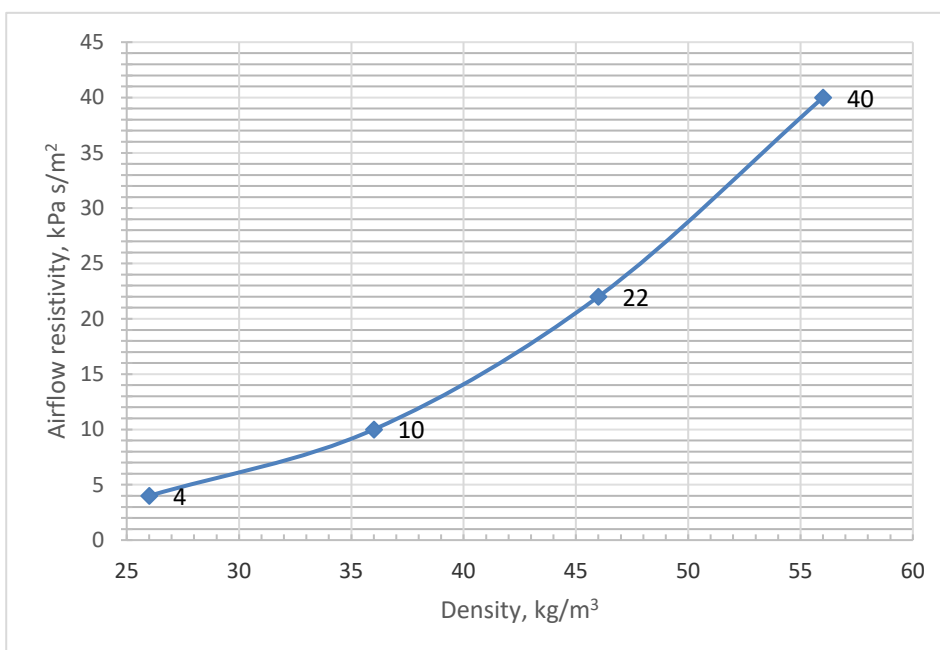
#### Settlement

Settlement of has been determined according to UKAD 040138-01-1201, Chapter 2.2.8.

End use application	Performance	Minimum density	Maximum thickness
Settling of loose fill insulation applied in ceilings, $s_v$	4.0%	26 kg.m <sup>-3</sup>	326 mm
Settling of loose fill insulation applied in cavities of walls and between rafters, $s_d$	SC 0	42 kg.m <sup>-3</sup>	240 mm

#### Specific airflow resistivity

Specific airflow resistivity has been tested according to EN 29053, Method A. Performance is shown in Figure below.



### **3.7. Sustainable use of natural resources (BWR 7)**

No performance assessed.

## **4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied**

### **4.1. System of assessment and verification of constancy of performance**

According to UKAD No. 040138-01-1201 and Annex V of the Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022) 305/2011 as brought into UK law and amended, the system of assessment and verification of constancy of performance (AVCP) 3 applies.

## **5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable UKAD**

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with the British Board of Agrément and made available to the UK Approved Bodies involved in the conformity attestation process.

### **5.1. UKCA marking for the product/ system must contain the following information:**

- Identification number of the Approved Body
- Name/ registered address of the manufacturer of the product/ system
- Marking including date of Marking and the intended use as stated in the Designated technical specification
- Unique identification code of the product type
- The reference number of the Declaration of Performance
- The level or class of the performance declared
- The reference to the Designated technical specification applied
- UKTA number.

On behalf of the British Board of Agrément



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