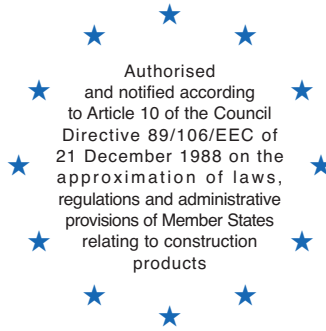


ÖSTERREICHISCHES INSTITUT FÜR BAUTECHNIK

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Member of EOTA

European technical approval

ETA-06/0076

(English language translation, the original version is in German language)

Handelsbezeichnung
Trade name

Clima-super, Isocell, trendisol, Isodek, Dobry - Ekovilla, FibraNatur, France-Cellulose, Qualicell, Cellaouate, Ouattitude, Domexcell, Pavafloc, Renocell

Zulassungsinhaber
Holder of approval

**ZELLULOSEDÄMMSTOFFPRODUKTION CPH
Beteiligungs GmbH & Co KG
Am Ökopark 6
8230 Hartberg**

Zulassungsgegenstand
und Verwendungszweck

Dämmstoff aus losen, ungebundenen Zellulosefasern

*Generic type and use
of construction product*

Insulation material made of loose, free cellulose fibres

Geltungsdauer vom
Validity from
bis
to

26.04.2011

25.04.2016

Herstellwerk
Manufacturing plant

PLANT 1, PLANT 2, PLANT 3

Diese Europäische
technische Zulassung umfasst
*This European technical ap-
proval contains*

11 Seiten einschließlich 0 Anhängen

11 pages including 0 Annexes

Diese Zulassung ersetzt
This approval replaces

**ETA-06/0076 mit Geltungsdauer vom 18.12.2009 bis
zum 25.04.2011**

ETA-06/0076 with validity from 18.12.2009 to 25.04.2011

choosing the right product in relation to the expected economically reasonable working life of the works.

2 Characteristics of products and methods of verification

2.1 Composition and manufacturing process

The insulation product shall as far as its composition and manufacturing process is concerned correspond to the product subject to the approval tests. Details of composition and manufacturing process are deposited at the Österreichischen Institut für Bautechnik.

2.2 Density

The density of the insulating materials is determined according to standard ISO/CD 18393⁴. Depending on the area of application the density ranges stated in Table 1 are to be observed and controlled by the installer.

Table 1: density range depending on the area of application

area of application	density range kg/m ³
<u>Vertical</u> : machine processed cavity insulation in exterior-, interior walls,	38-65
<u>Pitched</u> : machine processed cavity insulation in roofs (pitch >10 °)	38-65
<u>Horizontal</u> : machine processed cavity insulation in flat roofs and floor constructions	38-65
<u>Horizontal</u> : machine processed exposed insulation not subject to foot traffic on ceiling constructions (pitch ≤ 10 °)	28-40

2.3 Settlement

The settlement is determined according to ISO/CD 18393⁴ following the test methods stated in Table 2. The maximum values of settlement stated in Table 2 are not exceeded for the given minimum density.

Table 2: Settlement depending on the test method

Test method according to ISO/CD 18393	settlement %	density kg/m ³	settled density kg/m ³
Method A – Settling by impact excitation	8	31,0	33,0
Method C – Settling of wall cavity insulation by vibration	0	38,0	38,0
Method D – Settling by specified climatization	10	33,0	34,0

2.4 Water absorption

No performance determined

2.5 Water vapour diffusion resistance factor

The water vapour diffusion resistance factor $\mu = 1$ (see 4.2.1.1).

⁴ ISO/CD 18393:2002-08 Thermal insulation – Accelerated ageing of thermal insulation materials – Assessment of settling of loose-fill thermal insulation used in attic and closed cavity applications

2.8 Reaction to fire

The reaction to fire of the insulation products is tested by using the test methods relevant for the corresponding reaction to fire class and is classified according to EN 13 501-1⁸. Table 3 shows the reaction to fire classes which apply to the insulation products as a function of their end use application.

Table 3: Reaction to fire classes as a function of the end use application

End use application	Reaction to fire: Class
<ul style="list-style-type: none"> – installation density of the insulating material 30 kg/m³ to 65 kg/m³, – insulation layer thickness ≥ 100 mm; – end use application without air gap – end use application substrates defined in EN132389 for the following standard substrate: “wood based panel”: density of the board ≥ 680 ± 50 kg/m³, board thickness ≥ 12 ± 2 mm, reaction to fire of the board: class D, “calcium silicate board”: density of the board 870 ± 50 kg/m³, board thickness ≥ 11 ± 2 mm, reaction to fire of the board: class A2 	B-s2,d0
<ul style="list-style-type: none"> – installation density of the insulating material 30 kg/m³ to 65 kg/m³, – insulation layer thickness ≥ 40 mm 	E

2.9 Resistance to biological actions

The test and the assessment of the resistance to growth of mould fungus has been verified according to the EOTA testing procedure (Annex C of CUAP „In-situ formed loose filled thermal insulation material and/or acoustic insulation material made of vegetable or animal fibres; edition July 2009”). The reached **class** of the product is **0**.

2.10 Corrosion developing capacity on metal construction products

No performance determined.

2.11 Retention of additives

The test and the assessment of the retention of additives has been verified according to the EOTA testing procedure (Annex F of CUAP „In-situ formed loose filled thermal insulation material and/or acoustic insulation material made of vegetable or animal fibres; edition July 2009”). Neither decrease in the reaction to fire behavior nor resistance to mould growth was determined.

2.12 Dangerous substances

The product consists of cellulose fibres made from waste paper by mechanical crushing under addition of flame retardants and complies with the provisions of guidance paper H¹⁰. It does not contain substances which have to be classified as dangerous according to Directive 67/548/EEC and/or listed in the "Indicative list on dangerous substances" of the EGDS and can be classified as product **type 2** according the EOTA testing procedure (clause 4.3.2 of CUAP „ In-situ formed loose filled thermal insulation material and/or acoustic insulation material made of vegetable or animal fibres; edition July 2009

⁸ EN 13 501-1:2002-06: Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests

⁹ EN 13238:2001: Reaction to fire tests for building products – Conditioning procedures and general rules for selection of substrates

¹⁰ Guidance paper H: A harmonised approach relating to Dangerous substances under the construction products directive, 18 February 2000

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b) Tasks of the Notified Body:

- initial type-testing of the product
- initial inspection of factory and of factory production control
- continuous surveillance, assessment and approval of factory production control

3.2 Responsibilities

3.2.1 Tasks for the manufacturer; factory production control

The manufacturer has a factory production control system in his plant and exercises permanent internal control of production.

All the elements, requirements and provisions adopted by the manufacturer are documented in a systematic manner in the form of written policies and procedures. The factory production control system ensured that the products are always in conformity with the European technical approval.

In the framework of factory production control the manufacturer shall carry out tests and controls in accordance with the control plan¹¹ which is fixed with this European technical approval.

Details of the extent, nature and frequency of testing and controls to be performed within the factory production control shall correspond to this control plan which is part of the technical documentation of this European technical approval.

The results of factory production control are recorded and evaluated. The records include at least the following information:

- designation of the products and of the basic materials
- type of control or testing
- date of manufacture of the products and date of testing of the products or basic materials or components
- result of control and testing and, if appropriate, comparison with requirements
- signature of person responsible for factory production control

On request the records shall be presented to the Österreichisches Institut für Bautechnik.

3.2.2 Tasks for approved bodies

3.2.2.1 Initial type-testing of the products

For initial type-testing the results of the tests performed as part of the assessment for the European technical approval 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 between the Österreichisches Institut für Bautechnik and the approved bodies involved.

3.2.2.2 Initial inspection of factory and of factory production control

The approved body shall ascertain that in accordance with the control plan the precautions in the factory, in particular the staff and equipment concerning, and the factory production control are suitable to ensure a continuous and orderly manufacturing of the insulation products with the specifications mentioned in section 2.

3.2.2.3 Continuous surveillance

The approved body shall visit the factory at least twice a year for surveillance. It has to be verified that the system of factory production control and the specified manufacturing process are maintained taking account of the control plan.

Continuous surveillance and assessment of factory production control have to be performed according to the control plan.

¹¹

The control plan has been deposited at the Österreichisches Institut für Bautechnik and is handed over only to the approved bodies involved in the attestation of conformity procedure

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5.3 Accompanying information

In the information accompanying CE marking the manufacturer shall indicate that the products shall be protected against humidity during transport, storage and installation.

Furthermore it is the responsibility of the manufacturer to ensure that the information on the installation procedure is shown clearly on the package and/or on an enclosed instruction sheet.

On behalf of Österreichisches Institut für Bautechnik

The original document is signed by:

Rainer Mikulits
Managing Director

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