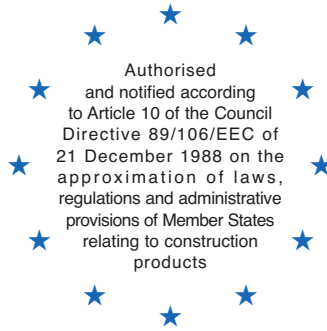


# ÖSTERREICHISCHES INSTITUT FÜR BAUTECHNIK

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Member of EOTA

## European technical approval

## ETA-11/0318

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

Handelsbezeichnung  
*Trade name*

**thermalan iso, swisswool iso, tirolwool iso**

Zulassungsinhaber  
*Holder of approval*

**Jacob Emendoerfer Nachf.  
Baur Vliesstoffe GmbH  
Schulfeldstraße 4  
D-91550 Dinkelsbühl-Sinbronn  
Deutschland**

Zulassungsgegenstand  
und Verwendungszweck

**Dämmmatten und Rollen aus Schafwolle zur Wärme  
und/oder Luftschalldämmung**

*Generic type and use  
of construction product*

*Thermal and/or acoustic insulation mats and rolls made of  
sheep wool*

Geltungsdauer vom  
*Validity from*  
bis  
*to*

**20.12.2011**

**19.12.2016**

Herstellwerk  
*Manufacturing plant*

Jacob Emendoerfer Nachf.  
Baur Vliesstoffe GmbH  
Schulfeldstraße 4  
D-91550 Dinkelsbühl-Sinbronn  
Deutschland

Diese Europäische  
technische Zulassung umfasst  
*This European technical approval  
contains*

**9 Seiten einschließlich 0 Anhänge**

*9 pages including 0 Annexes*



European Organisation for Technical Approvals  
Europäische Organisation für Technische Zulassungen  
Organisation Européenne pour l'Agrément technique









The declared value of thermal conductivity for the density range of 26 kg/m<sup>3</sup> - 30 kg/m<sup>3</sup> kg/m<sup>3</sup> is  $\lambda_{D(23,50)} = 0,036 \text{ W/(m}\cdot\text{K)}$  – **category 2** determined by conversion of the  $\lambda_{(10,\text{dry,limit})}$  value.

For conversion of humidity the following applies:

the moisture content mass by mass at 23 °C/50 % relative humidity:

$$u_{23,50} = 0,0704 \text{ kg/kg}$$

the moisture content mass by mass at 23 °C/80 % relative humidity:

$$u_{23,80} = 0,117 \text{ kg/kg}$$

the moisture content conversion coefficient mass by mass:

$$f_{u1 (\text{dry} - 23/50)} = - 0,0241 \text{ kg/kg}$$

$$f_{u2 (23/50 - 23/80)} = - 0,0153 \text{ kg/kg}$$

## 2.11 Reaction to fire

The reaction to fire of the products is determined according to EN 13501-1<sup>17</sup>. The product reached the following classification.

	density range (kg/m <sup>3</sup> )	minimum thick- ness (mm)	class
<b>thermalan iso, swisswool iso, tirolwool iso</b>	26-30	30	<b>E</b>

## 2.12 Corrosion developing capacity on metal construction products

The test and the assessment of the corrosion developing capacity on metal has been verified according to the EOTA testing procedure (Annex E des CUAPs „Factory-made thermal insulation material and/or acoustic insulation material made of vegetable or animal fibres; edition July 2009“). No corrosion developing potential of the insulation material was determined.

## 2.13 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 des CUAPs „Factory-made thermal insulation material and/or acoustic insulation material made of vegetable or animal fibres; edition July 2009“). The reached **class** of the products is **0**.

The test and the assessment of the resistance to attack by vermin has been verified according to ISO 3998<sup>18</sup> short term test and the EOTA testing procedure (Annex D des CUAPs „Factory-made thermal insulation material and/or acoustic insulation material made of vegetable or animal fibres; edition July 2009“). The tests are **passed**.

## 2.14 Retention of additives

The test and the assessment of the retention of additives have been verified according to the EOTA testing procedure (Annex F of CUAP „Factory-made thermal insulation material made of vegetable or animal fibres; edition July 2009.“). No decrease in the reaction to fire behavior and no resistance to mould growth were determined.

<sup>17</sup> EN 13501-1: 2002

Classification of construction products and construction types about its fire behavior – Part 1: Classification with the results of the test about fire behaviour of construction products

<sup>18</sup> ISO 3998: 1977

Textiles – Determination of resistance to certain insect pests



In the framework of factory production control the manufacturer shall carry out tests and controls in accordance with the control plan<sup>20</sup> 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.

### 3.3 CE marking

The CE marking shall be affixed on the products, the packaging or the attached label.

The symbol "CE" shall be accompanied by the following information:

- name or identifying mark of producer and manufacturing plant
- the last two digits of the year in which the CE marking was affixed
- number of the European technical approval
- identification of products (commercial name)
- nominal dimensions of length, width and thickness
- thickness tolerance
- dimensional stability
- density range
- declared value of thermal conductivity
- class of reaction to fire<sup>21</sup>
- water vapour diffusion resistance
- water absorption
- airflow resistance

## 4 Assumptions under which the fitness of the products for the intended use was favourably assessed

### 4.1 Manufacturing

The thermal insulation products shall correspond as far as their composition and manufacturing process is concerned to the products subject to the approval tests. Composition and manufacturing process are deposited at the Österreichischen Institut für Bautechnik.

<sup>20</sup> The control plan has been deposited at the Österreichisches Institut für Bautechnik

<sup>21</sup> European classification of reaction to fire of building materials according to the Commission Decision 2000/147/EG of 8 February 2000 implementing Article 20 of Directive 89/106/EEC on construction products.

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