



## Report 72221

### Classification Report on Burning Behaviour



#### Applicant

#### Reference

#### Application

Classification of the burning behaviour according to EN 13501-1.

#### Test Material

"Wool felt (100% Wool)"

Material used in testing was anonymized for laboratory purposes. A detailed sample list is contained in the report.

#### Issuing and Signatures

Number of pages contained: 7

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Translation

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## 1 Order

### 1.1 Chronology

| Date       | Received   | Order  |
|------------|------------|--|
| 2013-10-14 | 2013-10-17 | Classification of the burning behaviour according to EN 13501-1. |



## 2 Introduction

This classification report defines the classification assigned to the product group **"Wool felt (100% Wool)"** in accordance with the test methods fixed in EN 13501-1.

An orientating control-test of the burning behaviour of the submitted sample was performed.  
(See point 4)

## 3 Details of classified building product

### 3.1 General

The product group **"Wool felt (100% Wool)"** is defined as flooring, the classification is valid for the end use application described under point 5.3.

### 3.2 Description of the building product

The product group **"Wool felt (100 % Wool)"** is defined according EN 14041 as following.

|                         |  |
|-------------------------|--|
| Type                    | pressed felt                             |
| Dimensions              | rolls                                    |
| Manufacturing procedure | felt                                     |
| Surface structure       | flat                                     |
| Pile material           | 100% wool (declaration by the applicant) |
| Total density           | 0.28 g/cm <sup>3</sup>                   |
| Total thickness         | 2 mm to 5 mm                             |

The applicant of this classification report guarantees the observance of the instructions for building product groups.

The following articles are part of the product group **"Wool felt (100 % wool)"**.

| Article                       | Total density          | Total thickness |
|-------------------------------|------------------------|-----------------|
| "Wool felt, 2 mm (100% Wool)" | 0.28 g/cm <sup>3</sup> | 2 mm            |
| "Wool felt, 3 mm (100% Wool)" | 0.28 g/cm <sup>3</sup> | 3 mm            |
| "Wool felt, 5 mm (100% Wool)" | 0.28 g/cm <sup>3</sup> | 5 mm            |

## 4 Test reports and test results for the proof of the classification

For product groups preliminary trials with the heaviest/thickest and lightest/thinest quality have to be carried out (for the most unfavourable case a complete test has to be carried out) respectively the test results of these "border-qualities" are used for the judgement. The classification is done according to the worst case ("Wool felt, 2 mm (100 % Wool)").

### 4.1 Test report

|                    |                                  |
|--------------------|----------------------------------|
| Laboratory         | ÖTI                              |
| Test report number | <b>58175</b>                     |
| Date of issue      | <b>2008-06-09</b>                |
| Applicant          | Maximilian                       |
| Test methods       | EN ISO 11925-2 und EN ISO 9239-1 |

|                    |                                  |
|--------------------|----------------------------------|
| Laboratory         | ÖTI                              |
| Test report number | <b>72220</b>                     |
| Date of issue      | <b>2013-11-14</b>                |
| Applicant          | Maximilian                       |
| Test methods       | EN ISO 11925-2 und EN ISO 9239-1 |

### 4.2 Test results

| Report       | Test  | Test results<br>(Mean Value)                 | Number of<br>tests |
|--------------|---|--|--------------------|
| <b>58175</b> | <b>Ignitability, EN ISO 11925-2</b><br>Flame spread $\leq 150$ mm             | yes  | 6                  |
| <b>58175</b> | <b>Burning behaviour, EN ISO 9239-1</b><br>Critical radiant flux              | <b>8.4 kW/m<sup>2</sup></b>                  | 3                  |
|              | Integral of smoke obscuration   | <b>54 %.min</b>                              | 3                  |
| <b>72220</b> | <b>Burning behaviour, orientating, EN ISO 9239-1</b><br>Critical radiant flux | <b><math>\geq 11</math> kW/m<sup>2</sup></b> | 2                  |
|              | Integral of smoke obscuration   | <b>25 %.min</b>                              | 2                  |



## 5 Classification and field of application

### 5.1 Reference for classification

This classification has been carried out in accordance with EN 13501-1.

### 5.2 Classification

Due to the results of the tests carried out, the product group "Wool felt(100 % Wool)" can be classified as following.

| Burning behaviour        | Smoke emission |
|--------------------------|----------------|
| <b>B<sub>fl</sub></b>    | <b>s1</b>      |
| <b>Classification</b>    |                |
| <b>B<sub>fl</sub>-s1</b> |                |

### 5.3 Field of application

The classification is valid for the building product described in point 3 under the following end use conditions.

|              |  |
|--------------|--|
| Application  | Horizontal laid floor covering in form of rolls  |
| Subfloors    | Not burnable subfloors of euroclass A1 <sub>fl</sub> or A2 <sub>fl</sub> with a density of at least 1350 kg/m <sup>3</sup> . |
| Installation | unglued and glued/adhered  |





## 6 Limitations

### 6.1 Notice

This classification document does not represent type permission or certifying the product.

If a building product should be CE marked according to system 3 of the attestation of conformity systems, the classification stated with this report is suitable as a basis for the declaration of the producer according to the attestation of conformity system 3, together with a CE marking in the context of the directive relating to construction products.

If the manufacturer plans a CE marking in connection with conformity system 3, he has to give an explanation, which has to be attached to the relevant documents. This explanation confirms, that there are no the specific materials, production processes or procedures (e.g. no additives of flame retarding materials, delimitation of organic components or additions of fillers), which are improving the burning behaviour to reach the obtained fire classification. As a consequence from this, the manufacturer drew the conclusion that the system 3 of the attestation of conformity systems is appropriate.

The testing laboratory therefore has played no role in the sampling procedure, although the testing laboratory keeps appropriate references from the manufacturer ready, in order to pursue the examined samples.



## 7 Remarks

### Validity

There are no regulations concerning duration of validity in the individual test standards. As the results of the examinations refer only to the submitted and examined samples, the report is valid for these for an unlimited period. A period of validity specified as part of an expert evaluation is in the discretion of the consultant or the ÖTI.

The applicability of results and expert evaluations for materials not tested is in the responsibility of the applicant. Whereby an apportionment of results as well as any specified period of validity can only be done for identically constructed products and only as long as the product produced unchanged.

Possible national or international restrictions concerning the terms of usability of test and classification reports have to be considered; this is not the responsibility of the test laboratory.

### Sample Material

Without explicit written other agreement testing is destructive and the sample material is transferred to the property of ÖTI, which is entitled to freely decide on storage and disposal.

### Issuance

The valid first issue is done in paper and has single-handed signatures. For reference purposes and filing an unsigned electronic duplicate can be delivered in pdf format. Duplicates and translations will be marked accordingly on the cover sheet.

### Quality management, Accreditation and Notification

All tests and services are performed under a quality management system according to EN ISO/IEC 17025 respectively EN ISO/IEC 17065.



The ÖTI is accredited as Testing Laboratory and Certification Body for products. It also is a Notified Body for several directives with the registration number 0534 (see <http://ec.europa.eu/enterprise/newapproach/nando/>). Accreditation as Certification Body was provided by Akkreditierung Austria (Federal Ministry of Economy, Family and Youth). The scope of accreditation is listed on [www.bmwfi.gv.at/akkreditierung](http://www.bmwfi.gv.at/akkreditierung).

According to the decree on the use of the accreditation mark ("AkkZV") the accreditation mark is only to be used by the accredited Conformity Assessment Body.

Application of the registration number of the Notified Body: As to personal protective equipment (PPE) the requirements of PSA-SV § 10, BGBl. Nr. 596/1994 as amended and article 13 of the Directive 89/686/EEC have to be kept. With construction products the application is only permitted within the declaration of performance for CE-marking.

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