TFI Report 471376-02

Classification of the Reaction to Fire according to EN 13501-1:2010

Customer
Upofloor Oy
Souranderintie 2
37101 Nokia
FINLAND

Product
resilient floor covering
Zero Tile
Product ID tested: Zero Tile 5123, batch 9470

This report includes 4 pages and 0 annex(es).

Responsible at TFI
Dipl.-Ing. Ulrike Balg
senior engineer fire testing
Tel: +49 241 9679 133
u.balg@tfi-aachen.de

Aachen, 25 September 2017
Dr. Alexander Siebel
head of the testing laboratory

The present document is provided with an advanced electronic signature.

This report only applies to the tested samples and has been established to the best of our knowledge. Only the entire report shall be reproduced. Under no circumstances, extracts shall be used. Furthermore, we apply the "General Terms and Conditions for the Execution of Contracts" of the TFI Aachen GmbH, also with regard to the order execution.
1 Transaction

Test order classification of the reaction to fire according to EN 13501-1:2010
Order date 23 August 2017
Your reference S. Löytönen
Product designation(s) Zero Tile
Product ID tested: Zero Tile 5123, batch 9470
TFI sample number 17-08-0176

2 Product specification

The construction product is completely described in the test report mentioned under item 3. The test report provides the basis for the present classification.

3 Results

3.1 Test reports and test results used for the classification

<table>
<thead>
<tr>
<th>Test laboratory</th>
<th>Customer</th>
<th>Test report no.</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>TFI Aachen GmbH</td>
<td>Upofloor Oy</td>
<td>471376-01 dated 25 September 2017</td>
<td>EN ISO 9239-1:2010</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EN ISO 11925-2:2010 (15 s ignition time)</td>
</tr>
</tbody>
</table>
3.2 Test results

<table>
<thead>
<tr>
<th>Test method</th>
<th>Parameter</th>
<th>Number of tests</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN ISO 9239-1:2010</td>
<td>Average critical heat flux [kW/m²]</td>
<td>3</td>
<td>9.8</td>
</tr>
<tr>
<td></td>
<td>Integrated smoke value [% x min.]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN ISO 11925-2:2010</td>
<td>Flame tip &lt; 150 mm</td>
<td>6</td>
<td>-</td>
</tr>
</tbody>
</table>

3.3 Classification and field of application

The construction product “Zero Tile Product ID tested: Zero Tile 5123, batch 9470” is classified as follows with regard to the reaction to fire:

B<sub>f</sub>

The additional classification with regard to the smoke development is:

s<sub>1</sub>

The additional classification with regard to burning droplets/particles is:

*

The format of the reaction to fire classification for floor coverings is:

<table>
<thead>
<tr>
<th>Reaction to fire</th>
<th>Smoke development</th>
</tr>
</thead>
<tbody>
<tr>
<td>B&lt;sub&gt;f&lt;/sub&gt;</td>
<td>-</td>
</tr>
<tr>
<td>s</td>
<td>1</td>
</tr>
</tbody>
</table>

Classification of the reaction to fire: B<sub>f</sub> - s<sub>1</sub>
This classification is valid for the following end use application:

**Type of end use application**  horizontally laid floor covering

**Substrate**  noncombustible substrates (Euroclass A1 and A2-s1,d0) with a gross density ≥ 1350 kg/m³

**Underlay for installation**  no

**Type of fixation**  glued

**Adhesive**  glued with UZIN KE 2000 S, Uzin Utz AG (or adhesives which ensure that the tested construction product will reach at least the same fire class)

**Joint according to EN ISO 9239-1:2010**  yes

**Limitations**

This classification document does not represent any type approval or certification of the product.

The classification assigned to the construction product in this report is suited for a declaration of conformity by the manufacturer or a Declaration of Performance within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive or Construction Products Regulation.

The manufacturer has made a declaration, which is held on file. This declaration confirms that the design of the product does not require any specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic contents or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 for the attestation of conformity respectively system 3 for the assessment and verification of the constancy of performance is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.