Title:
CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2007+A1: 2009

Notified Body No:
0833

Product Name:
“Surestep”

Report No:
319866

Issue No:
1

Prepared for:
Forbo Sarlino SAS
63 rue Gosset
BP 2717
51055 Reims Cedex
France

Date:
10th August 2012
1. **Introduction**

This classification report defines the classification assigned to “Surestep”, a heterogeneous PVC floor covering adhered to an acoustic PVC under layer, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

2. **Details of classified product**

2.1 **General**

The product, “Surestep”, a heterogeneous PVC floor covering adhered to an acoustic PVC under layer, is defined as being suitable for flooring applications.

2.2 **Product description**

The product, “Surestep”, a heterogeneous PVC floor covering adhered to an acoustic PVC under layer, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

<table>
<thead>
<tr>
<th>General description</th>
<th>Compact heterogeneous PVC floor covering adhered to a foam underlay adhered to a particleboard substrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall thickness</td>
<td>22.36mm (determined by Exova Warringtonfire)</td>
</tr>
<tr>
<td>Overall density</td>
<td>15.31kg/m² (determined by Exova Warringtonfire)</td>
</tr>
</tbody>
</table>
| Composition details | • Floor covering  
• Adhesive  
• Cushion Backing  
• Adhesive  
• Substrate |

| Floor Covering       | Product reference “Surestep”  
Generic type          | Heterogeneous contact PVC floor covering  
Detailed description  | Multi layered reinforced PVC floor covering  
Name of manufacturer  | Forbo  
Weight per unit area  | 2.90kg/m²  
Thickness             | 2.00mm  
Flame retardant details | See Note 1 Below |
| Adhesive             | Product reference “Forbo V22 Adhesive”  
Generic type          | Acrylic  
Name of manufacturer  | Forbo  
Application rate      | 250g/m²  
Application method    | Trowel  
Flame retardant details | See Note 1 Below |
| Cushion Backing      | Generic type Acoustic PVC under layer  
Product reference     | “Sarlibase Acoustique”  
Detailed description  | Foam layer + PVC reinforced layer  
Name of manufacturer  | Forbo  
Thickness             | 2mm  
Density / weight per unit area | 1.23kg/m²  
Colour reference      | “White”  
Flame retardant details | See Note 1 Below |

Continued on next page
Substrate
Trade name “Particle Board”
Generic type Particle Board
Name of supplier SA Joinery
Thickness 18mm
Density 600kg/m²

Brief description of manufacturing process of the floor covering See Note 2 Below

Note 1. The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

Note 2. The sponsor was unwilling to provide this information.

3. Test reports & test results in support of classification

3.1 Test reports

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Name of sponsor</th>
<th>Test reports/ extended application report Nos.</th>
<th>Test method / extended application rules &amp; date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exova Warringtonfire</td>
<td>Forbo Sarlino SAS</td>
<td>WF 319725</td>
<td>EN ISO 9239-1</td>
</tr>
</tbody>
</table>

3.2 Test results

<table>
<thead>
<tr>
<th>Test method &amp; test number</th>
<th>Parameter</th>
<th>No. tests</th>
<th>Results</th>
<th>Compliance with parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN ISO 9239-1</td>
<td>Critical flux</td>
<td>3</td>
<td>6.0</td>
<td>Compliant</td>
</tr>
<tr>
<td></td>
<td>Smoke</td>
<td></td>
<td>332.18</td>
<td>Compliant</td>
</tr>
<tr>
<td>EN ISO 11925-2</td>
<td>Flame spread</td>
<td>*</td>
<td>*</td>
<td>Compliant</td>
</tr>
</tbody>
</table>

* The product properties fall within the range defined in Commission Decision 2005/610/EC establishing the classes of reaction-to-fire performance for certain construction products. The product can therefore be assumed to meet the relevant requirement without the need for testing.

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 9 of EN 13501-1:2007+A1: 2009.
4.2 Classification

The product, “Surestep”, a heterogeneous PVC floor covering adhered to an acoustic PVC under layer, in relation to its reaction to fire behaviour is classified:

CFL

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

<table>
<thead>
<tr>
<th>Fire Behaviour</th>
<th>Smoke Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFL</td>
<td>s</td>
</tr>
</tbody>
</table>

i.e. CFL - s1

Reaction to fire classification: CFL - s1

4.3 Field of application

This classification is valid for the following end use applications:

i) Floorcovering applications applied over any substrate with a minimum density of 600kg/m³, having a minimum thickness of 18mm and a fire performance of D, s2-d0 or better.

ii) Floorcovering installed utilising “Forbo V22”, an acrylic adhesive at an application rate of 250g/m².

This classification is also valid for the following product parameters:

- Floorcovering thickness: No variation allowed
- Floorcovering weight per unit area: No variation allowed
- Floorcovering composition: No variation allowed
- Floorcovering construction: No variation allowed
- Colour/Pattern: Any variation allowed

Matthew Dale  Janet Murrell
Certification Engineer  Technical Manager

For and on behalf of:

Exova Warringtonfire

This copy has been produced from a .pdf format electronic file that has been provided by Exova Warringtonfire to the sponsor of the report and must only be reproduced in full. Extracts or abridgements of reports must not be published without permission of Exova Warringtonfire. The original signed paper version of this report is the sole authentic version. Only original paper versions of this report bear authentic signatures of the responsible Exova Warringtonfire staff.