Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B1 covered with 3 layers of Bona Traffic HD top coating, in accordance with the procedures given in EN 13501-1:2007.

CLASSIFICATION OF REACTION TO FIRE
IN ACCORDANCE WITH EN 13501-1:2007

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Notified Body No.: 1583

Product name: flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B1 covered with 3 layers of Bona Traffic HD top coating

Classification report No.: 13/2012
Issue number: 1
Date of issue: 2 July 2012

This classification report consists of four pages and may only be used or reproduced in its entirety.
2 Details of classified product

2.1 General

The product, flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B<sub>a</sub> covered with 3 layers of Bona Traffic HD top coating, is defined as a flooring.

2.2 Product description

The product, flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B<sub>a</sub> covered with 3 layers of Bona Traffic HD top coating, is described below or is described in the reports provided in support of classification listed in 3.1.

<table>
<thead>
<tr>
<th>Total thickness of particleboard</th>
<th>12 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density of particleboard</td>
<td>660 kg/m³</td>
</tr>
<tr>
<td>Type of finish</td>
<td>two-component waterborne polyurethane finish</td>
</tr>
<tr>
<td>Application rate</td>
<td>100-120 g/m² per layer</td>
</tr>
<tr>
<td>Number of lacquer layers</td>
<td>3</td>
</tr>
</tbody>
</table>

3 Reports and results in support of this classification

3.1 Reports

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Name of sponsor</th>
<th>Report ref. no.</th>
<th>Test method and date</th>
</tr>
</thead>
</table>
3.2 Results

<table>
<thead>
<tr>
<th>Test method and test number</th>
<th>Parameter</th>
<th>No. Tests</th>
<th>Continuous parameter – mean (m)</th>
<th>Compliance with parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN ISO 9239-1</td>
<td>Critical heat flux (kW/m²)</td>
<td>3</td>
<td>9.92</td>
<td>(-)</td>
</tr>
<tr>
<td>(radiant heat source method)</td>
<td>Smoke production (%-min)</td>
<td></td>
<td>11.41</td>
<td>(-)</td>
</tr>
<tr>
<td>A-942-BÖS/2012/6K</td>
<td>The flame spread ( F_s \leq 150 \text{ mm} ) within 20 s from the time of application</td>
<td>6</td>
<td>(-)</td>
<td>COMPLIANT</td>
</tr>
<tr>
<td>A-942-BÖS/2012/7K</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(-): not applicable

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2007.

4.2 Classification

The product, flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class \( B_n \) covered with 3 layers of Bona Traffic HD top coating, in relation to its reaction to fire behaviour is classified:

\( B_n \)

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>( B_n )</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>( s )</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

\( B_n-s1 \)

Reaction to fire classification: \( B_n-s1 \)
4.3 Field of application

This classification is valid for the following product parameters:
- total thickness of particleboard: minimum 12 mm
- particleboard class: $B_{II}$

(Test report no. 942/2012/S.K of 2 July 2012)

The classification is valid for the following end use applications:
- The product used only on floorings or bases of fire-resistance classes A1$_{II}$ and A2$_{II}$.
- The product used in a horizontal position with the exposed side up.
- The product used indoors.

5 Limitations

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

This document is valid provided that neither the composition nor production technology of the product are changed.

SIGNED
Jacek Pawłowski, M.Sc.

APPROVED
Dr Hanna Wróblewska,
Prof. of Wood Technology Institute

KIEROWNIK
Sesji Badan Palnowi

[Signature]