REACTION TO FIRE CLASSIFICATION REPORT
No. RA12-0359
ACCORDING TO THE EUROPEAN STANDARD
NF EN 13501-1

Notification by the French Government to the European Commission under no 0679.
Seule la version française fait foi.
The French version is legally acceptable

Product standard
NF EN 14041: “Resilient, textile and laminate floor coverings – Essential characteristics”

Owner: FORBO SARLINO SAS
63 rue Gosset
51100 REIMS
FRANCE

Commercial brand(s): SARLON 19 dB 33
SARLON 19 dB 43
SARLON 19 dB 33 + SARLIBASE TE underlay
SARLON 19 dB 43 + SARLIBASE TE underlay

Brief description: Vinyl floor covering
(see detailed description in paragraph 2)

Date of issue: October 08th, 2012

The indicated classification does not prejudge the conformity of marketed materials with the samples submitted to the tests and under no circumstances, this document should not be considered as type approval or certification of the product in the sense of the L 115-27 article of the consumption’s code and of the law dated June 3rd, 1994.
If this report is being issued by e-mail and/or on an electronic medium, only the hard copy of the report signed by CSTB shall prevail in the event of a dispute.
The reproduction of this classification report is only authorised in its integral form.
It comprises 4 pages.
1. Introduction

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the NF EN 13501-1 standard.

2. Product description

Vinyl floor coverings tested glued and loose-laid (with a glued underlay referenced “SARLIBASE TE”) on 22 mm thick wood particleboard.

Floor coverings consisting of:
- A 0.52 mm thick for the reference “SARLON 19 dB 33” or 0.67 mm thick for the reference “SARLON 19 dB 43” transparent overlay made of polyvinyl chloride.
- A decorative layer made of polyvinyl chloride.
- An intermediate layer made of polyvinyl chloride reinforced with a glass tissue.
- A backing foam made of polyvinyl chloride.

Nominal weights per unit area: 2.7 kg/m² (for the reference “SARLON 19 dB 33”) and 2.9 kg/m² (for the reference “SARLON 19 dB 43”).

Nominal thicknesses: 3.25 mm (for the reference “SARLON 19 dB 33”) and 3.40 mm (for the reference “SARLON 19 dB 43”).

Colours and appearances: various.

Underlay referenced “SARLIBASE TE” with a thickness of 1.5 mm made of polyvinyl chloride reinforced with glass mats.

3. Tests reports and tests results in support of this classification

3.1 Tests reports

<table>
<thead>
<tr>
<th>Name of laboratory</th>
<th>Name of sponsor</th>
<th>Test identification</th>
<th>Test report No.</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSTB</td>
<td>FORBO SARLINO SAS 63 rue Gosset 51100 REIMS FRANCE</td>
<td>ES541030830</td>
<td>RA04-0172</td>
<td>EN ISO 11925-2 EN ISO 9239-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ES541120488</td>
<td>Modification file</td>
<td>-</td>
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</table>
### 3.2 Tests results

<table>
<thead>
<tr>
<th>Test method</th>
<th>Product</th>
<th>Number of tests</th>
<th>Parameters</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN ISO 11925-2</td>
<td>SARLON 19 dB 33 Glued on wood particleboard</td>
<td>2</td>
<td>Fs &gt; 150 mm Filter paper</td>
<td>Not reached Not ignited</td>
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<tr>
<td></td>
<td>SARLON 19 dB 33 Loose-laid (with &quot;SARLIBASE TE&quot; underlay) on wood particleboard</td>
<td>1</td>
<td>Fs &gt; 150 mm Filter paper</td>
<td>Not reached Not ignited</td>
</tr>
<tr>
<td></td>
<td>SARLON 19 dB 43 Glued on wood particleboard</td>
<td>2</td>
<td>Fs &gt; 150 mm Filter paper</td>
<td>Not reached Not ignited</td>
</tr>
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<td>SARLON 19 dB 43 Loose-laid (with &quot;SARLIBASE TE&quot; underlay) on wood particleboard</td>
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<td>Fs &gt; 150 mm Filter paper</td>
<td>Not reached Not ignited</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Test method</th>
<th>Product</th>
<th>Number of tests</th>
<th>Parameters</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN ISO 9239-1</td>
<td>SARLON 19 dB 33 Glued on wood particleboard</td>
<td>3</td>
<td>Critical heat flux (kW/m²)</td>
<td><strong>7.44</strong> 539</td>
</tr>
<tr>
<td></td>
<td>SARLON 19 dB 33 Loose-laid (with &quot;SARLIBASE TE&quot; underlay) on wood particleboard</td>
<td>3</td>
<td>Critical heat flux (kW/m²)</td>
<td><strong>6.58</strong> 613</td>
</tr>
</tbody>
</table>

Three pre-tests performed on the reference “SARLON 19 dB 43” show the same results for critical heat flux and smoke.
4. Classification and direct field of application

4.1 Reference of the classification
This classification has been carried out in accordance with clause(s) 12.5 and 12.9.2 of the NF EN 13501-1 standard.

4.2 Classification

<table>
<thead>
<tr>
<th>Fire behaviour</th>
<th>Smoke production</th>
</tr>
</thead>
<tbody>
<tr>
<td>$C_{fl}$</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>$s1$</td>
</tr>
</tbody>
</table>

Classification: $C_{fl} - s1$

4.3 Field of application

This classification is valid for the following product parameters:
- The products described in paragraph 2.
- A nominal thickness of the covering of 3.25 mm (for the reference “SARLON 19 dB 33”) and of 3.40 mm (for the reference “SARLON 19 dB 43”).
- A nominal weight per unit area of the covering of 2.7 kg/m² (for the reference “SARLON 19 dB 33”) and of 2.9 kg/m² (for the reference “SARLON 19 dB 43”).
- Various colours and appearances.

This classification is valid for the following end use conditions:
- Glued or loose-laid (with glued "SARLIBASE TE” underlay) on any derivative wood panel with a density $\geq 470$ kg/m$^3$ and on any A2$\,_{fl}$-s1 or A1$\,_{fl}$ class substrate with a density $\geq 1200$ kg/m$^3$.

Champs-sur-Marne, October 08th, 2012

The Head of Reaction to Fire laboratory

Nicolas ROURE

END OF THE CLASSIFICATION REPORT