

Exova Warringtonfire  
Holmesfield Road  
Warrington  
WA1 2DS  
United Kingdom

T : +44 (0) 1925 655 116  
F : +44 (0) 1925 655 419  
E : warrington@exova.com  
W: www.exova.com



Testing. Advising. Assuring.

**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:**

10<sup>th</sup> 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.

General description		Compact heterogeneous PVC floor covering adhered to a foam underlay adhered to a particleboard substrate
Overall thickness		22.36mm (determined by Exova Warringtonfire)
Overall density		15.31kg/m <sup>2</sup> (determined by Exova Warringtonfire)
Composition details		<ul style="list-style-type: none"> <li>• Floor covering</li> <li>• Adhesive</li> <li>• Cushion Backing</li> <li>• Adhesive</li> <li>• Substrate</li> </ul>
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/m <sup>2</sup>
	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/m <sup>2</sup>
	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/m <sup>2</sup>
	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/m <sup>2</sup>
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

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova Warringtonfire	Forbo Sarlino SAS	WF 319725	EN ISO 9239-1

#### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
EN ISO 9239-1	Critical flux	3	6.0	Compliant
	Smoke		332.18	Compliant
EN ISO 11925-2	Flame spread (mm)	*	*	Compliant

\* The product properties fall with 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:

**C<sub>FL</sub>**

The additional classification in relation to smoke production is:

**s1**

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

Fire Behaviour		Smoke Production	
<b>C<sub>FL</sub></b>	<b>-</b>	<b>s</b>	<b>1</b>

i.e. C<sub>FL</sub> – s1

**Reaction to fire classification: C<sub>FL</sub> – s1**

## 4.3 Field of application

This classification is valid for the following end use applications:

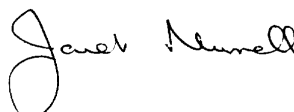
- Floorcovering applications applied over any substrate with a minimum density of 600kg/m<sup>3</sup>, having a minimum thickness of 18mm and a fire performance of D, s2-d0 or better.
- Floorcovering installed utilising "Forbo V22", an acrylic adhesive at an application rate of 250g/m<sup>2</sup>.

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

**SIGNED**

**APPROVED**

.....  
**Matthew Dale**  
Certification Engineer

.....  
**Janet Murrell**  
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.