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## Report No. 401166-04

### Fire Behaviour Classification according to EN 13501-1:2010

#### 1 Introduction

This fire behaviour classification report defines the classification of the construction products „Contour Conductive“, „Pastell Conductive“, „Royal ESD“ and „Royal Conductive“ in accordance with the procedures according to EN 13501-1:2010.

#### 2 Procedure

<b>construction product 1</b>	Construction product..... resilient floor covering
	Sample designation ..... Contour Conductive
	Type of manufacture ..... synthetic floor covering with conductive backing
	Material..... polyvinylchloride
	TFI reference no ..... 10-07-0036
	Order date ..... 07.07.2010



### 3 Test Reports and Test Results Used for the Classification

#### 3.1 Test Reports

Name of testing body	Ordered by	Construction product	Test report No.	Test methods
Textiles & Flooring Institute GmbH	Armstrong DLW GmbH	1	401166-01	EN ISO 9239-1:2002
				EN ISO 11925-2:2002 (15s ignition time)
Textiles & Flooring Institute GmbH	Armstrong DLW GmbH	2	401167-01	EN ISO 9239-1:2002
				-
Textiles & Flooring Institute GmbH	Armstrong DLW GmbH	3	401168-01	EN ISO 9239-1:2002
				-
Textiles & Flooring Institute GmbH	Armstrong DLW GmbH	4	401169-01	EN ISO 9239-1:2002
				-

#### 3.2 Test Results

	Test methods	Characteristics	Number of tests	Test results	
				average	requirements fulfilled (Y/N)
construction product 1	EN ISO 9239-1:2002	critical radiant flux (kW/m <sup>2</sup> )	3	9,0	
		smoke development (% x min)		444	
	EN ISO 11925-2:2002	charred distance ≤ 150 mm	6	-	Y

## 4 Classification and Application

### 4.1 Reference

This classification is performed according to EN 13501-1:2010.

### 4.2 Classification

With regard to the fire behaviour, the tested construction products are classified as **B<sub>fl</sub>**

Additionally, with regard to the smoke development, the tested construction products are classified: **s1**

Thus, the construction products tested obtain the following classification:

Burning behaviour		Smoke development	
<b>B<sub>fl</sub></b>	-	<b>s 1</b>	i.e. <b>B<sub>fl</sub>-s1</b>

### 4.3 End-Use Application

The classification is only valid for the construction products as described under sections 2. and 3., used as a horizontal floor covering installed on a mineral substrate according to EN 13238:2010, using adhesives or not.

## 5 Restrictions

This classification report replaces neither a type-test report nor a product certification.

Aachen, 06.08.2010



signed Dr. Ernst Schröder

The present document is provided with a qualified electronic signature and is valid without autograph signature.

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