

# **Report of the classification of the reaction to fire performance**

English version

**Nr. 230006808-K**  
**issued 12 December 2008**

## **Sponsor**

HANWHA EUROPE GmbH  
Mergenthalerallee 79 - 81

65760 Eschborn

## **Order**

Classification of the reaction to fire behaviour according to DIN EN 13501-1

## **Date of order**

23 January 2007

## **Name of the classified building product:**

Acrylic solid surface sheeting named "Brionne"

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## 1. Description of the building product

Homogenous acrylic solid surface sheeting in various colours

Range of thickness: 6 mm - 12 mm

Weight per unit area of a 6 mm thick sheet: about 10.7 kg/m<sup>2</sup>

Weight per unit area of a 12 mm thick sheet: about 21.0 kg/m<sup>2</sup>

Average raw density: about 1767 kg/m<sup>3</sup>

Concerning the field of application see chapter 3

## 2. Test reports and test results supporting the classification

### 2.1 Test reports

| Test laboratory | Sponsor   | Test report no. | Test procedure            |
|-----------------|---|-----------------|---------------------------|
| MPA NRW         | HANWHA EUROPE GmbH<br>Mergenthalerallee 79 - 81<br>65760 Eschborn | 230006808-A     | <b>DIN EN 13823</b>       |
| MPA NRW         | HANWHA EUROPE GmbH<br>Mergenthalerallee 79 - 81<br>65760 Eschborn | 230006808-B     | <b>DIN EN ISO 11925-2</b> |

### 2.2 Test results

| Test procedure | No. of tests performed | Parameter                              | Test results |           |
|----------------|------------------------|--|--------------|-----------|
|                |                        |  | Mean values  | Fulfilled |
| DIN EN 13823   | 3                      | FIGRA <sub>0,2</sub> (W/s)             | 40.7         | --        |
|                |                        | THR <sub>600s</sub> (MJ)               | 4.2          | --        |
|                |                        | LFS < edge                             | --           | Yes       |
|                |                        | SMOGR <sub>A</sub> (m <sup>2</sup> /s) | 1.7          | --        |
|                |                        | TSP <sub>600s</sub> (m <sup>2</sup> )  | 12.3         | --        |
|                |                        | Flaming droplets/particles (s)         | 0            | --        |

| Test procedure     | No. of tests performed | Parameter                                       | Test results                        |                      |
|--------------------|------------------------|---|-------------------------------------|----------------------|
|                    |                        |   | Continuous parameter<br>Mean values | Compliance parameter |
| DIN EN ISO 11925-2 | 6 x K<br>and<br>6 x F  | $F_s \leq 150$ mm<br>Flaming droplets/particles | --<br>--                            | Yes<br>No            |

Remark: K = tested with edge exposure, F = tested with surface exposure

**Remark:** The procedure of testing for getting the above mentioned test results which are basis for the classification is described in the above mentioned test reports. The above mentioned results of the test procedure according to DIN EN 13823 refer to tests performed with the worst variant of the product as described in chapter 1 concerning the reaction to fire behaviour which was determined in the course of a test programme.

### 3. Classification and direct field of application

#### 3.1 Reference

This classification was carried out in accordance with the paragraphs 11. and 14.1 of the standard DIN EN 13501-1:2007.

#### 3.2 Classification

The tested product in relation to its reaction to fire behaviour is classified as: **B**

The additional classification in relation to smoke production is: **s1**

The additional classification in relation to flaming droplets/particles is: **d0**

The classification of the reaction to fire performance is therefore:

| Fire behaviour | Smoke production | Flaming droplets/ particles |
|----------------|------------------|-----------------------------|
| <b>B</b>       | <b>s1</b>        | <b>d0</b>                   |

i. e. **B – s1, d0**

#### 3.3 Field of application

The classification is valid solely for the product as described in chapter 1 with sheet thicknesses in the range from 6 mm to 12 mm, glued with „Terokal-625“ two components PU ad-

hesive (application amount up to 600 g/m<sup>2</sup>) on substrates made out of gypsum plaster board or other substrates classified as A1 or A2 according to DIN EN 13501-1. The minimum thickness of these substrates has to be 6 mm and the minimum density has to be 700 kg/m<sup>3</sup>.

#### **4. Restrictions**

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

#### **5. Remarks**

This classification report written in English language is issued additionally to the report written in German language with the same report no. In case of doubt the German version is solely valid.

Erwitte, 12 December 2008



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Head of testing body

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