

Report of the classification of the reaction to fire performance

English version

Nr. 230006022-K

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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 "Hanex"

This classification report is issued additionally to the classification report written in German language with the same report no. This classification report is valid only in combination with the classification report written in German language.

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This classification report has 5 pages.

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/m²

Weight per unit area of a 12 mm thick sheet: about 21.0 kg/m²

Average raw density: about 1767 kg/m³

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 Mergenthalerallee 79 - 81 65760 Eschborn	230006022-A	DIN EN 13823
MPA NRW	HANWHA EUROPE GmbH Mergenthalerallee 79 - 81 65760 Eschborn	230006022-B	DIN EN ISO 11925-2

2.2 Test results

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

Test procedure	No. of tests performed	Parameter	Test results	
			Continuous parameter Mean values	Compliance parameter
DIN EN ISO 11925-2	6 x K and 6 x F	$F_s \leq 150$ mm Flaming droplets/particles	– –	Yes 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 10. and 12.1 of the standard DIN EN 13501-1:2002.

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	s1	d0

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/m²) 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/m³.

4. Restrictions

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

5. Remarks

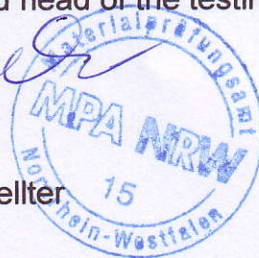
This classification report written in English language is issued additionally to the report written in German language with the same report no. In case of doubt the German version is solely valid.

Erwitte, 11 July 2007

The engineer in charge and head of the testing body


Dipl.-Ing. Rademacher

Wissenschaftlicher Angestellter



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