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# CLASSIFICATION ON BURNING BEHAVIOUR IN ACCORDANCE WITH GB 8624-2006

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**Product name:** *FACIAL VENEER*

**Report No.:** *200810053*

National Center for Quality Supervision and Testing of Fire Building Materials

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## 1. Introduction

This classification report defines the classification assigned to facial veneer in accordance with the procedures given in GB 8624-2006.

## 2. Details of classified product

### 2.1 General

The product, facial veneer, with specification of NW-H0701 and trademark of 'SANFOOT', is defined as being suitable for wall or ceiling applications.

The product was manufactured by Hokusan Co., Ltd on 28 September 2007.

The sponsor applied for an entrusted test to the fire performance of the product.

The specimens were submitted by the sponsor of the test and received on 7 January 2008. Tests were conducted from 22 January 2008 to 3 March 2008.

### 2.2 Product description

The product, facial veneer, having a thickness of 2.28 mm and a weight per unit area of 2.89 kg/m$^2$. The product comprised a 'non combustible' basement layer (aluminium alloy sheet) having a thickness of 2.0 mm and a weight per unit area of 2.71 kg/m$^2$, which was faced on one side with a wood veneer having a thickness of 0.28 mm and a weight per unit area of 0.18 kg/m$^2$. The veneer facing was bonded to basement layer.

The description of classified product given above has been prepared from information provided by the sponsor of the test.

Each specimen was mounted to a substrate of 12mm thick paper faced plasterboard having a density of 800 kg/m$^3$ utilising mechanical fixings in accordance with 5.2.2 b) given GB/T 20284-2006.

## 3. Test methods & test results in support of classification

### 3.1 Test methods

| | |
|---|---|
| GB/T 20284-2006 | Single burning item test for building materials and products |
| GB/T 14402-93 | Test method of heat of combustion for building materials |
| GB/T 20285-2006 | Toxic classification of fire effluents hazard for materials |

### 3.2 Test results

| Test method | Parameter | No. tests | Results | |
|---|---|---|---|---|
| | | | Continuous parameter - mean (m) | Compliance with parameters |
| GB/T 20284 | *FIGRA* $_{0.2MJ}$ | 3 | 73 | Compliant |
| | *LFS*<edge of specimen | | Y | Compliant |
| | *THR* $_{600s}$ | | 1.4 | Compliant |
| | *SMOGRA* | | 0 | Compliant |
| | $TSP_{600s}$ | | 24 | Compliant |
| | Flaming droplets/ particles | | N | Compliant |
| GB/T 14402 | Basement layer (aluminium alloy sheet) (MJ/kg) | 3 | 0.0 | Compliant |
| | Wood veneer (Including the glue) ($MJ/m^2$) | | 3.9 | Compliant |
| | Total (MJ/kg) | | 1.4 | Compliant |
| GB/T 20285 | Toxic classification | 1 | $ZA_1$ | Compliant |

## 4. Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with clause 10 of GB 8624-2006.

### 4.2 Classification

The product, facial veneer, in relation to its reaction to fire behaviour is classified:

**A2**

The additional classification in relation to smoke production is:

**s1**

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

**d0**

The additional classification in relation to smoke toxicity is:

**t1**

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

| Fire Behaviour | | Smoke Production | | | Flaming Droplets | | | Smoke Toxicity | |
|---|---|---|---|---|---|---|---|---|---|
| A2 | - | s | 1 | , | d | 0 | , | t | 1 |

**i.e. A2 – s1 , d0, t1**

## Reaction to fire classification: A2 – s1, d0, t1

### 4.3 Field of application

This classification is valid for the following end use application:

Mechanical fastened, on to any substrate with a minimum density of 800 kg/m$^3$, having a minimum thickness of 6 mm and a fire performance of A2 or better.

(Cachet)

Date of issue: 4 March 2008

RATIFIED: 轻通州 VERIFIED: 王波 AUTHORED:

**Photographs of GB/T 20284 specimen:**

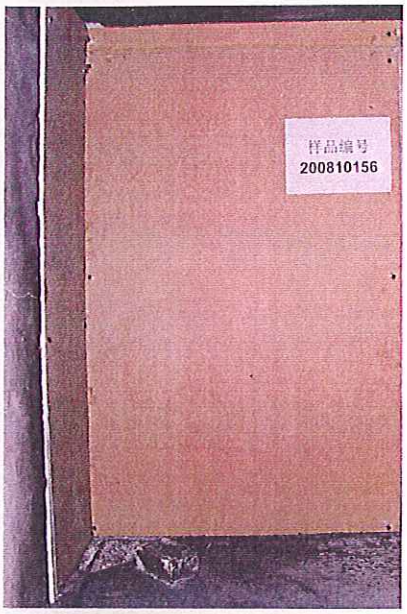


Plate 1: Total view of the exposed surface of the long wing prior to test

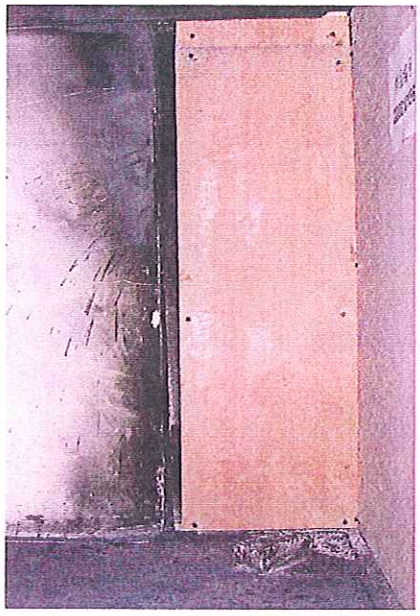

Plate 2: Total view of the exposed surface of the short wing prior to test

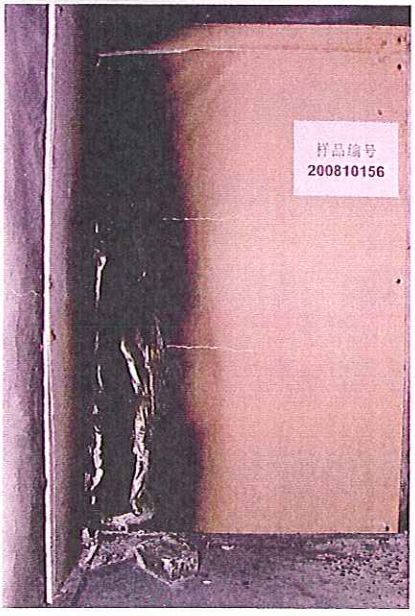


Plate 3: Total view of the exposed surface of the long wing immediately after test

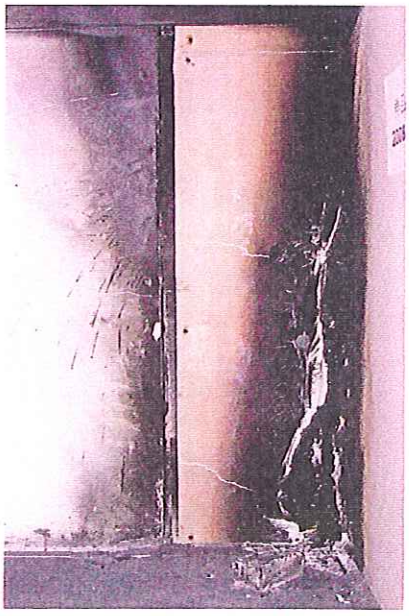

Plate 4: Total view of the exposed surface of the short wing immediately after test