

# classification report

**Title:**

CLASSIFICATION OF  
REACTION TO FIRE  
PERFORMANCE  
IN ACCORDANCE WITH  
EN 13501-1: 2002

**Notified Body No:**

0833

**Product Names:**

SUPERFRP-IFR

**Report No:**

162449

**Issue No:**

1

**Prepared for:**

NANTONG SUPER  
COMPOSITE MATERIAL  
COMPANY LIMITED,  
NO. 188 MIANJI ROAD,  
TANHZHA, NANTONG 226002,  
CHINA

**Date:**

6<sup>th</sup> March 2007

## 1. Introduction

This classification report defines the classification assigned to 'SUPERFRP-IFR', a flame retardant grade, fibre reinforced resin grating, in accordance with the procedures given in EN 13501-1:2002

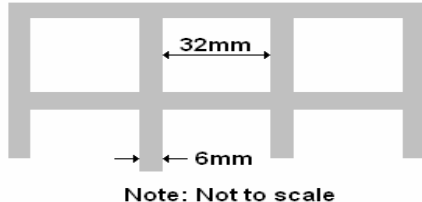
## 2. Details of classified product

### 2.1 General

The product, 'SUPERFRP-IFR', a flame retardant grade, fibre reinforced resin grating, is defined as being suitable for floorcovering applications.

### 2.2 Product description

The product, 'SUPERFRP-IFR', a flame retardant grade, fibre reinforced resin grating, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		A flame retardant grade, fibre reinforced resin grating	
Product reference		"SUPERFRP-IFR"	
Thickness		15mm	
Weight per unit area		12.0 kg/m <sup>2</sup>	
Colour reference		"Grey"	
Name of manufacturer		NanTong Super Composite Material Co., Ltd.	
Diagram of grating		 <p style="text-align: center;">Note: Not to scale</p>	
Fibre reinforced resin grating	Resin	Generic type	Isophthalic polyester resin
		Product reference	"SUPERFRP-IFR"
		Name of manufacturer	See Note 1 Below
		Composition details	See Note 2 Below
		Trade name of flame retardant	See Note 1 Below
		Generic type of flame retardant	See Note 1 Below
		Amount of flame retardant (%)	See Note 2 Below
	Reinforce-ment	Generic type	Fibre glass
		Product reference	"100% Fibergalss"
		Name of manufacturer	See Note 1 Below
		Composition details	100% no- alkaline fiberglass
		Configuration of reinforcement	Randomly dispersed throughout the product
	Flame retardant details		See Note 1 Below
Percentage reinforcement (by weight)		See Note 1 Below	
Resin to reinforcement ratio (by weight)		See Note 1 Below	

Substrate	Product reference	Particle Board
	Overall thickness	18mm
	Density	680±50 Kg/m <sup>3</sup>
	Flame retardant details	No Flame retardant present
Brief description of manufacturing process of fibre reinforce resin grating		Moulded product. The sponsor did not provide any further information relating to the manufacturing process

Note 1 – The sponsor was unwilling to provide this information

Note 2 – The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation

The description of the specimens given above is not as complete as would normally be the case for descriptions included in Bodycote warringtonfire test reports, and the description does not fully comply with the requirements of the standard. In all other respects, however, the tests were conducted fully in accordance with the requirements of the standard and the test results are valid.

### 3. Test reports/extended application reports & test results in support of classification

#### 3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
warringtonfire	NANTONG SUPER COMPOSITE MATERIAL COMPANY LIMITED	WF 161320	EN ISO 11925-2
warringtonfire	NANTONG SUPER COMPOSITE MATERIAL COMPANY LIMITED	WF 161319	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	10.8	Compliant
	Smoke		274.0	Compliant
EN ISO 11925-2 (15s exposure – surface of decorative face)	F <sub>s</sub>	6	20	Compliant
	Flaming droplets/particles		None	Compliant
EN ISO 11925-2 (15s exposure – edge of decorative face)	F <sub>s</sub>	6	20	Compliant
	Flaming droplets/particles		None	Compliant

## 4. Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with clause 11 of EN 13501-1:2002

### 4.2 Classification

The product, 'SUPERFRP-IFR', a flame retardant grade, fibre reinforced resin grating, in relation to its reaction to fire behaviour is classified:

**B<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>B<sub>FL</sub></b>	-	<b>s</b>	<b>1</b>

i.e. **B<sub>FL</sub> – s1**

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

#### 4.3 Field of application

This classification is valid for the following end use applications:

- i) Flooring applications, used over any substrate with a density equal to or greater than 680Kg/m<sup>3</sup>, having a minimum thickness of 18mm and a fire performance of C<sub>FL</sub> or better.
- ii) Installed with or without adhesive.

This classification is also valid for the following product parameters:

Floorcovering thickness	No variation allowed
Floorcovering weight per unit area	No variation allowed
Colour/Pattern	Any variation allowed
Individual components	No variation allowed
Floorcovering construction	No variation allowed

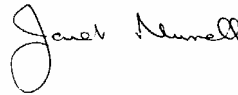
**SIGNED**



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**Leigh Hill**

Technical Consultant  
Technical Department

**APPROVED**



.....  
**Janet Murrell**

Technical Manager  
Technical Department  
on behalf of:  
**Bodycote warringtonfire**

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