

breglobal



Classification of reaction to fire performance in accordance with BS EN 13501-1: 2007 +A1: 2009 on Sandwich Panel, WP 50

Prepared for:

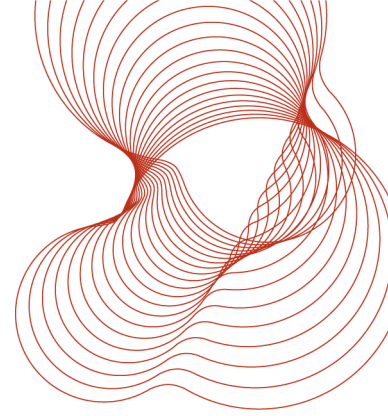
Sandwich Panel Factory
Jeddah
Saudi Arabia

13 July 2011

Test report number 271889



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1 Introduction

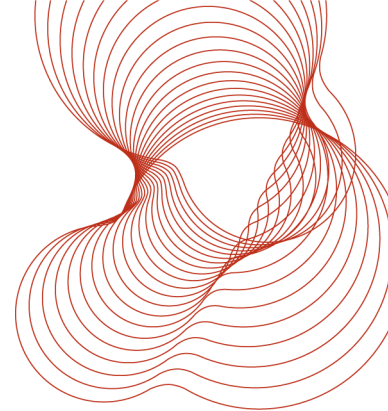
This classification report defines the classification assigned to 'Sandwich Panel, WP 50' in accordance with the procedures given in BS EN 13501-1:2007+A1: 2009¹.



CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1: 2007+A1: 2009

Sponsor :	Sandwich Panel Factory, Jeddah, Saudi Arabia.
Prepared for:	Sandwich Panel Factory, Jeddah, Saudi Arabia.
Manufacturer:	Sandwich Panel Factory, Jeddah, Saudi Arabia.
Prepared by:	BRE Global Ltd., Bucknalls Lane, Garston, Watford, WD25 9XX, England.
Product name:	Sandwich Panel, WP 50.
Classification report No.:	271889
Issue number:	1
Date of issue:	13 July 2011

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2 Details of classified product

2.1 General

The product, 'Sandwich Panel, WP 50', is defined as a factory made rigid polyurethane foam (PUR) product according to BS EN 13165: 2008².

2.2 Product description

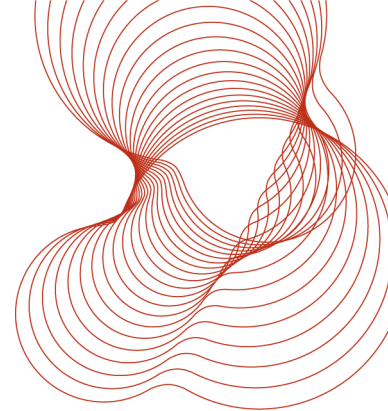
The product, 'Sandwich Panel, WP 50', is described in section 2.2.2.

2.2.1 Traceability

The test sample was supplied at the request of the test sponsor. BRE Global was not involved in the sampling process and therefore cannot comment upon the relationship between the samples supplied for test and the product supplied to market.

2.2.2 Sample details

Name and address of test Sponsor	Sandwich Panel Factory, Jeddah, Saudi Arabia.
Name and address of manufacturer of product	As above.
Sample	
Description of specimens (as received)	Double skin metal faced sandwich panel with off-white coated metal facings and a cream rigid foam core. The facings, which were approximately 0.5 mm and 0.6 mm thick respectively, were removed by a representative of BRE Global prior to testing.
Description of specimens (Test sponsor's declaration)	The following product information was received: Product name: Sandwich Panel. Product reference: WP 50. Skin colour: Bone White Ral 9002. Thickness of sample: 50 mm. Density: 38 – 42 kg/m ³ . Generic name: PUR Rigid Foam or PUR Panel. The following description was received: "Sandwich Panel consists of polyurethane foam cover both side with pre-painted steel." No further information was received.
Product/component tested	PUR core of Sandwich Panel, WP 50.
Sponsor's specimen ID	WP 50.
Type of product / component	Insulation.
Colour	Off-white.
Nominal declared thickness	50 mm.
Nominal declared density	38 – 42 kg/m ³ .
Face to be tested	Either.
Specimens	
Mean measured thickness	46 mm (range 44 mm – 47.5 mm), including facings.
Mean measured density	217 kg/m ³ . (range 209 kg/m ³ - 226 kg/m ³), including facings.



Mean measured mass per unit area	10 kg/m ² (range 9.9 kg/m ² - 10.1 g/m ²), including facings.
Mean measured thickness of core	45 mm (range 43 mm – 46.5 mm), excluding facings.
Mean measured density of core	39 kg/m ³ (range 39 kg/m ³ - 40 kg/m ³), excluding facings.

Note 1: This information was not supplied by the test sponsor.

3 Test reports & test results in support of classification

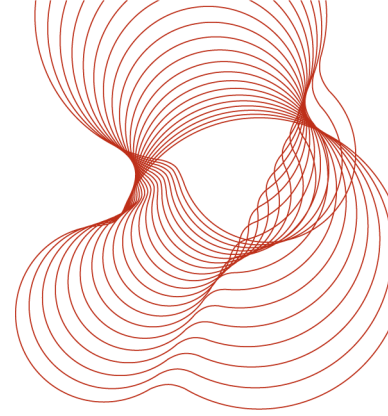
3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports Nos.	Test method
BRE Global	Sandwich Panel Factory	267529	EN ISO 11925-2: 2010

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
EN ISO 11925-2: 2010 Surface exposure, 30 s flame application period (BREG report 267529)	Fs	6	-	Compliant
	Flaming droplets/particles		-	Compliant
EN ISO 11925-2: 2010 Edge exposure, 30 s flame application period (BREG report 267529)	Fs	6	-	Compliant
	Flaming droplets/particles		-	Compliant

(-) Not applicable



4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with BS EN 13501-1:2007+A1: 2009.

4.2 Classification

The product 'Sandwich Panel, WP 50', in relation to its reaction to fire behaviour is classified:

E

The additional classification in relation to smoke production is:

-

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

-

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire Behaviour		Smoke Production			Flaming Droplets	
E	-	s	-	,	d	-

i.e. **E**

Reaction to fire classification: E

4.3 Field of application

The classification is valid for the following end-use application:

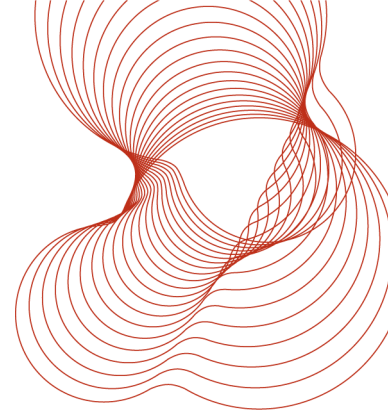
- i) Insulation product.

and for the following product parameters:

Thickness	50 mm. No variation in thickness allowed
Colour	Cream/off-white. No variation in colour allowed
Composition	PUR foam. No variation in composition allowed
Density	Nominal 38 – 42 kg/m ³ ± 15%.

The classification is valid for the following substrates and air gaps:

- i) Free standing without any product immediately behind or in front of it.

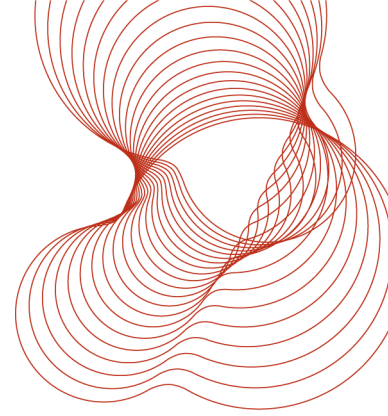


5 Limitations

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

6 Reference

1. BS EN 13501-1: 2007+A1: 2009. Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests, BSI, 389 Chiswick High Road, London, W4 4AL. 2009.
2. BS EN 13165: 2008. Thermal insulation products for buildings -- Factory made rigid polyurethane foam (PUR) products – Specification, BSI, 389 Chiswick High Road, London, W4 4AL. 2008.



3.

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Date 13/07/11

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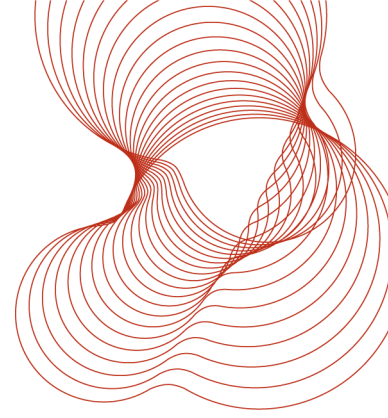
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