

bre

**BS476 : Part 6 : 1989 test  
on VPP 130 applied to  
plasterboard**

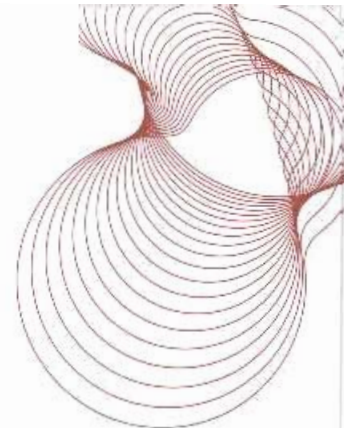
Prepared for:  
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10 January 2006

Test report number 227139



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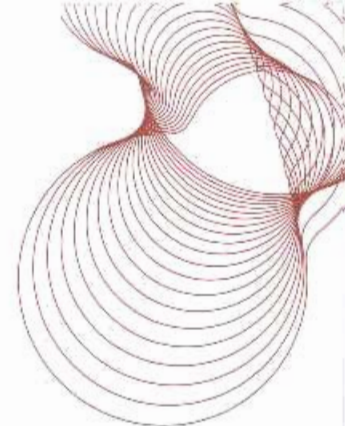
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## 1 Objective

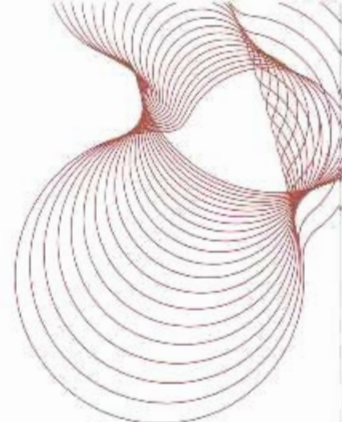
To determine the fire propagation index of the sample specified in Section 2 when subjected to the fire propagation test specified in British Standard 476 : Part 6 : 1989<sup>1</sup>.

## 2 Sample

The test samples were supplied by the client. BRE were not involved in the sample selection process and therefore cannot comment upon the relationship between samples supplied for test and the product supplied to market.

Unless otherwise stated all measurements are nominal.

Test Sponsor	VITRULAN Textilglas GmbH
Manufacturer of sample	VITRULAN Textilglas GmbH
Sample name/reference	VPP 130
Sample description (as provided by test sponsor/manufacturer)	Non-woven pre-painted VPP 130, applied to plasterboard and finished with two coats of acrylic paint
Description of sample (as received)	White coated plasterboard panel labelled by BRE as C2145
Mean sample weight per unit area (kg/m <sup>2</sup> )	7.23
Sample thickness (mm)	9.8
Sample receipt date	19 December 2005
Test face	White coated face
Date of test	10 January 2006



### 3 Conditioning

The specimens were conditioned as required by the standard.

### 4 Results

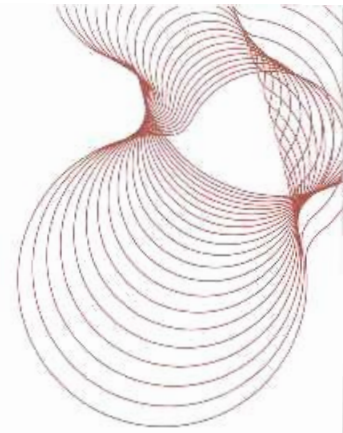
Table 1 shows the Temperature rise for calibration sheet and specimens

Table 2 shows the Index of performance for each specimen

**Table 1 – temperature rise**

Time t min	Temperature rise - °C			
	Calibration sheet	Specimens		
		a	b	c
0.5	17.0	19.6	20.6	20.4
1	21.9	27.8	28.2	26.8
1.5	26.9	34.1	34.2	32.5
2	31.1	38.0	38.1	35.7
2.5	34.5	41.6	42.2	40.6
3	38.0	46.0	46.2	44.4
4	61.2	69.3	68.6	67.4
5	91.2	123.6	118.7	111.6
6	116.3	138.4	134.7	128.8
7	137.3	159.3	155.6	150.9
8	153.3	174.1	172.9	168.2
9	166.8	186.4	185.2	181.7
10	177.9	198.7	197.5	192.8
12	196.4	212.2	214.7	206.3
14	208.7	220.8	222.1	214.9
16	217.3	227.0	228.2	221.1
18	224.6	231.9	234.4	224.8
20	230.8	235.6	239.3	228.5

t - time in minutes from the time at which the gas jets were ignited.  
a, b and c - represent individual specimens giving valid test results.

**Table 2 Index of performance**

Specimen	S	s <sub>1</sub>	s <sub>2</sub>	s <sub>3</sub>
a	5	2.5	2.2	0.3
b	5.1	2.8	1.9	0.4
c	3.9	2.2	1.5	0.2

## 5 Observations

No intumescence or deformation of any specimen occurred that affected the required gas input.

No melting or slumping occurred that prevented the material from being exposed to the heating conditions.

Air flow through the apparatus was not restricted by fallen material or by soot accumulation in the chimney.

## 6 Conclusions

A sample as described in this report, when tested in accordance with BS 476 : Part 6 : 1989, achieved:

fire propagation index  $I = 4.7$   
 sub-indices  $i_1 = 2.5$   
 $i_2 = 1.9$   
 $i_3 = 0.3$

The test results relate only to behaviour of the test specimens of the product under the particular conditions of test, they are not intended to be the sole criteria for assessing the potential fire hazard of the product in use.

The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over 5 years old should be considered by the user. The laboratory that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with current practices, and if required may endorse the test report.

## 7 Reference

- 1 Fire tests on building materials and structures. Part 6. Fire propagation test for products. British Standard 476 : Part 6 : 1989. British Standards Institution, London, 1989.

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report ends