



**Wiratec**  
WIRA TESTING CENTRE

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**F I R E T E S T I N G**

Our Ref: 27560A/09/03  
Your Ref:  
Order No:

10 October 2003  
Page 1 of 3

Client: Environmental Seals Ltd  
Envirograf  
Envirograf House  
Barfrestone  
Dover  
Kent  
CT15 7JG

Job Title: BS 476:Part 7:1987

Material Received: 06 September 2003

Description of Sample: **One sample of composite panels labelled ref: Orac (Belgium)**  
Polyurethane panel, with mouldings  
Treated on face and edges using two coats of Envirograph®  
HW01 intumescent coating at 8 m<sup>2</sup> per litre, per coat.

Brief: Wiratec were requested to carry out a fire test on the sample  
supplied to BS 476 Part 7

UKAS Accreditation: Our Laboratories are UKAS accredited. However, it should be noted that:  
tests marked \* are not UKAS accredited in this report and are not included in the  
UKAS Accreditation Schedule for our laboratory, either due to the work not  
conforming fully to the standard (e.g. reduced number of specimens) or to it being  
outside the scope of our accreditation, or subcontracted

Testing Atmosphere: Unless otherwise specified the sample has been conditioned and tested, where  
appropriate, in the standard atmosphere for conditioning and testing textiles (BS  
EN20139:1992) of 65±2% r.h. and 20±2°C.



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Page 3 of 3

Environmental Seals Ltd

Time for flame spread to reach (s) (mm)					Flame spread at 1.5 min (mm)	Maximum flame spread (mm)	Time to reach maximum flame spread (s)
165	215	265	455	710			
-	-	-	-	-	60	60	60
-	-	-	-	-	60	60	60
-	-	-	-	-	60	60	60
-	-	-	-	-	60	60	60
-	-	-	-	-	60	60	60
-	-	-	-	-	60	60	60

The results indicate that the sample met the performance requirements of Class 1.

### Comment

On all specimens the flaming did not propagate beyond the pilot light flame. Sample started to melt and slump towards the end of the test.

The information contained on page no's 1/3 of this certificate is hereby certified to be a correct statement of the tests and investigations carried out by Wira Testing Centre on the materials referred to.

Signed *B. Chambers* Date *10/10/03*

Mr. B. Chambers  
Fire Technician

Signed *D. Hird* Date *10/10/03*

Mr. D. Hird  
Operational Head  
Fire Testing

DH  
275600903arep



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Environmental Seals Ltd

**FIRE TESTS ACCORDING TO BS 476:PART 7:1987 (AS AMENDED)**  
**(Method for classification of the surface spread of flame of products)**

Date of Test: 25/09/03

**Conditioning**

The sample was conditioned to constant mass at a temperature of  $23 \pm 2^\circ\text{C}$  and a relative humidity of  $50 \pm 10\%$  and maintained in this condition until required for testing

**Procedure**

The test was carried out in accordance with BS 476: Part 7: 1987. The sponsor sampled and cut the specimens to the dimensions stated. The specimens were tested as received.

The following were recorded:-

- the time at which the flame front crosses each vertical reference line;
- the maximum extent of flame spread during the first 1.5 min from the start of the test;
- the maximum extent of flame spread during the whole test i.e. 10 min or less (if applicable)
- the time (and distance) at which maximum flame spread is reached.

The flame spread at 1.5min and the final flame spread results were compared with the standard class limits and a classification was assigned.

**Requirements**

The class limits for flamespread, detailed in BS 476:Part 7: are set out below.

	Flame spread at 1.5 min (mm)	Final flame spread (mm)
Class 1	165 (+25)	165 (+25)
Class 2	215 (+25)	455 (+45)
Class 3	265 (+25)	710 (+75)
Class 4	Exceeding Class 3 limits.	

A definitive classification is based on a sample of six specimens and the figure in brackets gives the tolerance by which only one specimen in six may exceed the class limit assigned.

**Results**

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

