



**Wiratec**  
WIRA TESTING CENTRE

Wira House  
West Park Ring Road  
Leeds, LS16 6QL  
England

Tel: +44 (0)113 259 1999  
Fax: +44 (0)113 278 0306  
Web: <http://www.bttg.co.uk>  
Email: [CSLeeds@bttg.co.uk](mailto:CSLeeds@bttg.co.uk)

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

Our Ref: 27510A/07/03  
Your Ref:  
Order No:

14 August 2003  
Page 1 of 3

Client: Arch Coatings  
A1 Business Park  
Knottingley  
West Yorkshire  
WF11 0BU

Job Title: BS 476:Part 7:1987

Material Received: 21 July 2003

Description of Sample: Samples of wood panels labelled ref: Birch faced Ply Plus 2 Coats of TU22 (150g/m net weight per coat) and one topcoat of TZ2225 (150g/m net weight).

Brief: Wiratec were requested to carry out a fire test on the specimens supplied to BS476 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.



This report is incomplete without all the pages specified above  
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Arch Coatings

**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: 14/08/03**

**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 on the finished side. The specimens were tested as received.

The following were recorded:-

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



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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			
490	-	-	-	-	75	185	494
200	-	-	-	-	60	165	600
-	-	-	-	-	75	160	600
-	-	-	-	-	75	140	600
-	-	-	-	-	75	150	600
-	-	-	-	-	75	75	60

The results indicate that the specimens met the performance requirement of Class 1.

### Comments

Flashing preceded the flaming on all specimens. Please note that the above classification included a result that went beyond the class limit, however due to only being one specimen the Class 1 performance is still valid.

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.....*[Signature]*.....Date.....14/08/03

Mr. D. Hird  
 Operational Head  
 Fire Testing

Signed.....*[Signature]*.....Date.....14.8.03

Mr. M. Nunney  
 Group Manager  
 Wiratec

DH  
 275100703arep

