

**SUMMARY OF WARRES NO'S. 70707 and 70708
INCLUDING OPINION OF COMPLIANCE WITH THE
REQUIREMENTS FOR A CLASS 0 SURFACE
AS DEFINED IN PARAGRAPH A12(b)
OF APPROVED DOCUMENT B, 'FIRE SAFETY',
TO THE BUILDING REGULATIONS 1991**

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THE PROFESSIONALS IN FIRE SAFETY •

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1. TERMS OF REFERENCE

To assess the results of tests to BS 476:Part 6:1989 and BS 476:Part 7:1997, obtained on specimens of a product and to provide an opinion of compliance with the requirements for a Class O surface, as defined in Approved Document B to the Building Regulations 1991.

2. INTRODUCTION

Specimens of a product have been tested in accordance with the test methods specified in BS 476: Part 6: 1989 'Method of test for fire propagation of products' and BS 476: Part 7: 1997 'Surface spread of flame test for materials'. The results of the tests are fully reported in the test reports WARRES No's. 70707 and 70708.

This summary test report has been prepared at the request of the sponsor and relates the results of the tests to the requirements for a Class 0 surface of a material or composite product, as defined in paragraph A12(b) of Approved Document B, 'Fire Safety', to the Building Regulations 1991.

This summary should be read in conjunction with, and not accepted as a substitute for, the test reports WARRES No's. 70707 and 70708. Those test reports may include additional information which may be relevant to the assessment of the potential fire hazard of the product.

3. DESCRIPTION OF TEST SPECIMENS

The description of the specimens given below has been prepared from information provided by the sponsor of the tests. All values quoted are nominal, unless tolerances are given.

The product was 'Reynobond RB 160 Pe', a composite panel having an overall thickness of 4 mm and comprising a core of 3 mm thick low density polyethylene (920 Kg/m³) with coated aluminium sheets bonded, utilising an adhesive system, to both faces.

In the case of the face exposed to the heating conditions of the test (front face), the coated aluminium sheet comprised 0.5 mm thick chromate pre-treated aluminium sheet coated on the exposed face with one coat of a PVF 2 (70% 'Kynar 500') coating (colour reference 'Silver Anodic 906'), coil coated to a dry film thickness of 25 microns.

In the case of the other face (reverse face) the coated aluminium sheet comprised 0.5 mm thick, chromate pre-treated aluminium sheet coated on the exposed face with one coat of an epoxy washcoat, coil coated to a dry film thickness of 5 microns.

The specimens were tested with an airgap positioned behind the product as described in WARRES No. 70707 and WARRES No. 70708.

Further details of the composition of the product have been provided and are held on our confidential file relative to this investigation.

The specimens were supplied by the sponsor. Warrington Fire Research Centre was not involved in any selection or sampling procedure.

4. **FACE SUBJECTED TO TESTS**

The specimens were mounted in the test positions such that the PVF 2 (colour reference 'Silver Anodic 906') face was exposed to the heating conditions of the tests.

5. **RESULTS OF TESTS**

The following results were obtained for the specimens which were tested.

BS 476: PART 6: 1989

Fire propagation index, I	=	0.3
subindex, i_1	=	0.0
subindex, i_2	=	0.0
subindex, i_3	=	0.3

BS 476: PART 7: 1997

Class 1 surface spread of flame

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

6. **OPINION**

We consider the results of the tests detailed above demonstrate that the product, as tested, complies with the requirements for Class 0, as defined in paragraph A12(b) of Approved Document B, 'Fire Safety', to the Building Regulations 1991.

7. **VALIDITY OF OPINION**

This opinion is based on the requirements of the Building Regulations at the date of this report. If the Building Regulations are revised or amended in any way subsequent to that date, care must be taken to ensure that this opinion is not invalidated by those revisions or amendments.

The opinion has been formulated on the assumption that the specimens are representative of the product in practice. Warrington Fire Research Centre was not involved in any sampling or selection procedures which would confirm this or in any audit testing which would provide confidence in the consistency of the product in the tests.

RESPONSIBLE OFFICER



J COAKLEY
Technical Officer
Reaction to Fire Testing

APPROVED



P E LYTHGOE
Manager
Reaction to Fire Testing
for and on behalf of
WARRINGTON FIRE RESEARCH CENTRE

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