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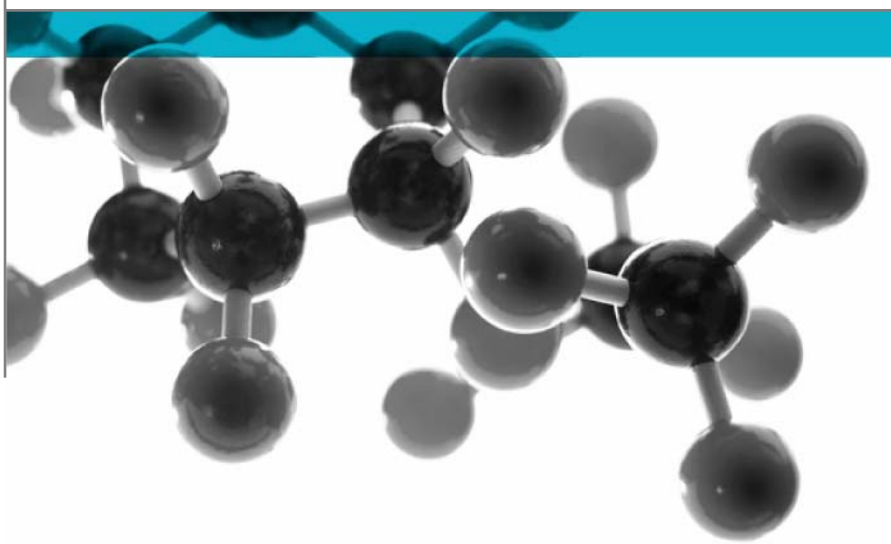
# Class 0 Summary Report



**Including Opinion Of Compliance With The Requirements For A Class 0 Surface As Defined In Paragraph A13(b) Of Approved Document B (Volumes 1 & 2), (2006 Edition) 'Fire Safety' To The Building Regulations 2000**

A Report To: G.L.V. International (1995) Ltd

Document Reference: 326052 & 326053

**Date:** 21st March 2013

**Issue No.: 1**



Testing
Advising
Assuring

# Executive Summary

**Objective**

To assess the results of tests to BS 476:Part 6:1989+A1: 2009 and BS 476:Part 7:1997, obtained on specimens of the following product and to provide an opinion of compliance with the requirements for a Class 0 surface, as defined in Approved Document B to the Building Regulations 2000.

| Generic Description | Product reference | Thickness / application rate | Weight per unit area or density |
|---|---|---|---|
| Coated reinforced polyvinyl chloride (PVC) | "PVC Coated glass fibre fabric" | 250-300 micron | 250-300g/m$^2$ |
| **Individual components used to manufacture composite:** | | | |
| Coating product | "PVC" | 70 micron | Unable to provide |
| Scrim | "e-glass fiberglass fabric 5430" | 170 micron | 150g/m$^2$ |
| Adhesive | Unable to provide | 6g/m$^2$ | Not stated |
| **Please see page 5 of this test report for the full description of the product tested** | | | |

**Test Sponsor**

G.L.V. International (1995) Ltd, Maalot Industrial Area, 24952, Israel.

**Opinion:**

We consider the results of the tests to BS 476:Part 6:1989+A1: 2009 and BS 476:Part 7: 1997, demonstrate that the product, as tested, complies with the requirements for Class 0, as defined in paragraph A13(b) of Approved Document B, `Fire Safety', to the Building Regulations 2000.

**Date of Test**

15th, 20th & 21st February 2013

# Signatories

| | |
|---|---|
| Responsible Officer<br>C. Meachin *<br>Acting Testing Officer | Authorised<br>M. Dale *<br>Deputy Operations Manager |

* For and on behalf of **Exova Warringtonfire**.

Report Issued: 21st March 2013

**CONTENTS** **PAGE NO.**

# Test Details

**Terms Of Reference**

To assess the results of tests to BS 476:Part 6:1989+A1: 2009 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 0 surface, as defined in Approved Document B to the Building Regulations 2000.

**Introduction**

Specimens of a product have been tested in accordance with the test methods specified in BS 476: Part 6: 1989+A1: 2009 'Method of test for fire propagation for products' and BS 476: Part 7: 1997 'Method of test to determine the classification of the surface spread of flame of products'. The results of the tests are fully reported in the **Exova Warringtonfire** test reports No's. 326052 and 326053.

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 A13(b) of Approved Document B, `Fire Safety', to the Building Regulations 2000.

This summary should be read in conjunction with, and not accepted as a substitute for, the **Exova Warringtonfire** test reports No's. 326052 and 326053. Those test reports may include additional information which may be relevant to the assessment of the potential fire hazard of the product.

The specimens were tested with an airgap positioned behind the product as described in test report No. 326052 and test report No.326053.

**Face subjected to tests**

The specimens were mounted in the test positions such that one of two identical faces was exposed to the heating conditions of the tests.

**Results of test**

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

**BS 476: Part 6: 1989**

| | | |
|---|---|---|
| Fire propagation index, I | = | 4.9 |
| subindex, $i_1$ | = | 3.9 |
| subindex, $i_2$ | = | 1.0 |
| subindex, $i_3$ | = | 0.0 |

**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.

# Description of Test Specimens

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

| | | |
|---|---|---|
| General description | | Coated reinforced PVC |
| Product reference of composite | | "PVC Coated glass fibre fabric" |
| Name of manufacturer of composite | | **See Note 1 below** |
| Thickness of composite | | 250-300 micron (stated by sponsor)<br>0.18mm (determined by **Exova Warringtonfire**) |
| Weight per unit area of composite | | 250-300g/m$^2$ (stated by sponsor)<br>372g/m$^2$ (determined by **Exova Warringtonfire**) |
| Coating product (both faces) | Generic type | PVC |
| | Product reference | "PVC" |
| | Name of manufacturer | **See Note 1 below** |
| | Colour reference | "Grey" |
| | Number of coats | 1 |
| | Application rate / thickness per coat | 70 micron |
| | Density / specific gravity | **See Note 1 below** |
| | Application method | Poured coating |
| | Trade name of flame retardant | "Sb2O3 B1 grade" |
| | Generic type of flame retardant | **See Note 1 below** |
| | Amount of flame retardant | 20% |
| | Curing process per coat | **See Note 1 below** |
| Scrim | Generic type | Fibreglass fabric |
| | Product reference | "e-glass fiberglass fabric 5430" |
| | Name of manufacturer | **See Note 1 below** |
| | Colour reference | "White" |
| | Thickness | 170 micron |
| | Weight per unit area | 150g/m$^2$ |
| | Type of weave / cell dimensions | **See Note 1 below** |
| | Flame retardant details | **See Note 2 below** |
| Adhesive | Generic type | Solvent based |
| | Product reference | **See Note 1 below** |
| | Name of manufacturer | Adestic Israel |
| | Colour reference | "Clear" |
| | Application rate / thickness | 6g/m$^2$ |
| | Application method | Contact coater wheel |
| | Flame retardant details | **See Note 2 below** |
| | Curing process | **See Note 1 below** |
| Brief description of manufacturing process | | **See Note 1 below** |

**Note 1 - The sponsor was unable to provide this information.**

**Note 2 - The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.**

# Classification

**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 A13(b) of Approved Document B, `Fire Safety', to the Building Regulations 2000.

**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. **Exova Warringtonfire** 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.

# Revision History

| | |
|---|---|
| Issue No : | Re-issue Date: |
| Revised By: | Approved By: |
| Reason for Revision: | |

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|---|---|
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| Reason for Revision: | |