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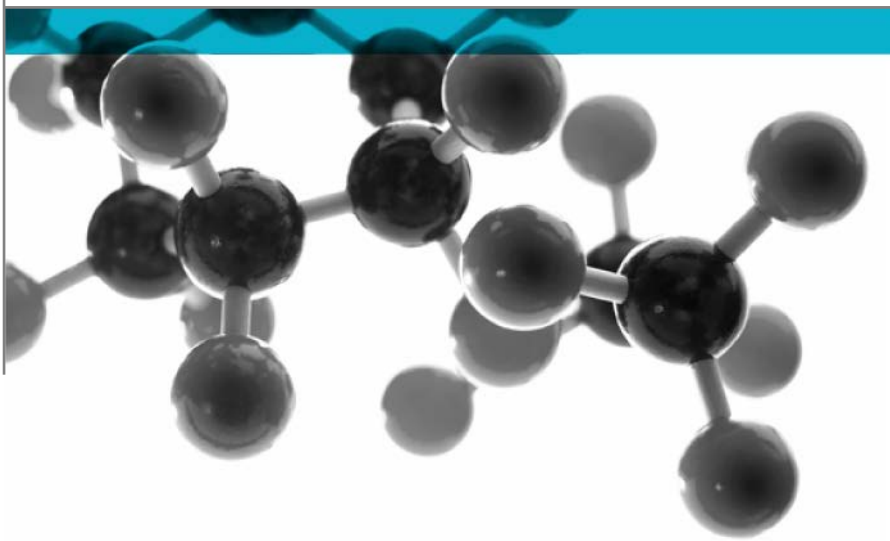
Class 0 Summary Report



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: BioClad Ltd.

Document Reference: Additional Test Report No. 361378

Date: 2nd February 2016

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	Weight per unit area or density
An un-plasticised polyvinyl chloride panel adhered to a cement board substrate	"BioClad PVC Hygienic Cladding Ranges"	9.2mm	16.23kg/m^2*
Individual components used to manufacture composite:			
Plastic (Test face)	"BioClad PVC Hygienic Cladding Ranges"	3mm	1.44g/cm^3
Adhesive	"Cosmopur 805" & "Cosmopur 859"	0.2mm	1.51g/cm^3
Substrate	"Eterplan N"	6mm	1.65g/cm^3
*** Determined by Exova Warringtonfire**			
Please see page 6 of this test report for the full description of the product tested			

Test Sponsor

BioClad Ltd., Unit 1A, Greengate, Cardale Park, Harrogate, HG3 1GY, United Kingdom

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

9th, 14th & 15th February 2012

This test report is additional to that issued as 315314 & 315315 dated the 7th March 2012 and has been issued at the request of the sponsor. The original test report remains valid and is not replaced by this additional test report. The product referred to in the original report and this additional test report has not been re-tested since the original test and neither has a technical review of the original test report resulting in any technical changes been carried out.

The original product reference has been removed and the reference "BioClad PVC Hygienic Cladding Ranges" has been inserted. The original sponsor's name has also been removed and "BioClad Ltd." has been inserted. The sponsor of the test has stated that the material described in this additional report is identical to the material which was tested. Both the original and the alternative trade names and of the product and the original and alternative names and addresses of the sponsor have been documented and the documentation is maintained in the confidential file covering this investigation.

Signatories

	
Responsible Officer C. Meachin * Technical Officer	Authorised T. Mort * Senior Technical Officer

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

Report Issued: 2nd February 2016

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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 Additional Test Report No. 361376 and Additional Test Report No. 361377.

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 Additional Test Report No. 361376 and Additional Test Report No. 361377. Those test reports may include additional information which may be relevant to the assessment of the potential fire hazard of the product.

Face subjected to tests

The specimens were mounted in the test positions such that the plastic face 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	= 5.8
subindex, i_1	= 2.0
subindex, i_2	= 2.6
subindex, i_3	= 1.2

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		An un-plasticised polyvinyl chloride panel adhered to a cement board substrate
Overall product reference		"BioClad PVC Hygienic Cladding Ranges"
Overall thickness		9.2mm (stated by sponsor) 9.39mm (determined by **Exova Warringtonfire**)
Overall weight per unit area		16.23kg/m^2 (determined by **Exova Warringtonfire**)
Product Configuration		• Plastic (Test face) • Adhesive • Substrate
Plastic (Test face)	Product reference	"BioClad PVC Hygienic Cladding Ranges"
	Generic type	Un-plasticised polyvinyl chloride (u-PVC)
	Name of manufacturer	Confidential
	Density	1.44g/cm^3
	Thickness	3mm
	Colour	"White"
	Flame retardant details	Confidential
Adhesive	Product reference	"Cosmopur 805" & "Cosmopur 859"
	Generic type	2 pack polyurethane
	Name of manufacturer	Weiss-Chemie
	Density	1.51g/cm^3
	Application thickness	0.2mm
	Flame retardant details	**See Note 1 below**
Substrate	Product reference	"Eterplan N"
	Generic type	Cement panel
	Name of manufacturer	Eternit AG
	Thickness	6mm
	Density	1.65g/cm^3
	Flame retardant details	The component is inherently flame retardant
Brief description of manufacturing process of the plastic		Extrusion

Note 1: The original sponsor of the test was unable to provide this information.

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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