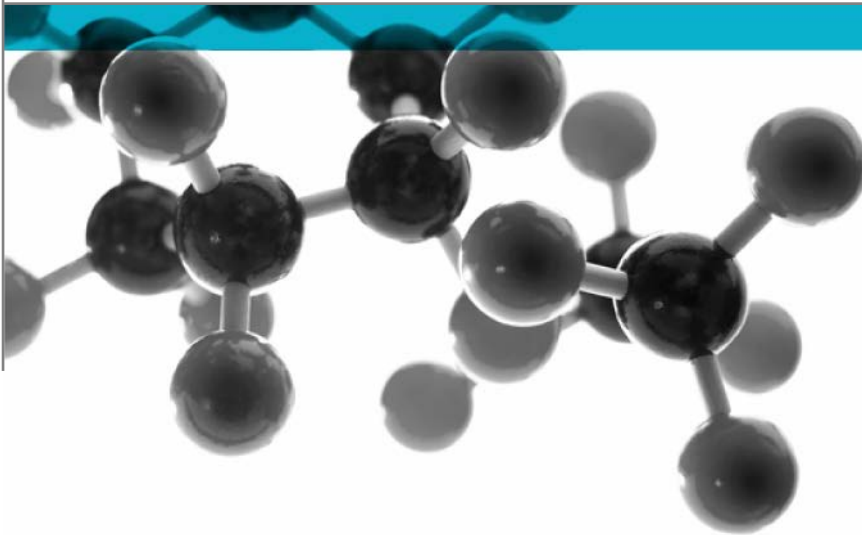


Class 0 Summary Report



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

Date: 29th May 2019

Issue No.: 1

Page 1

A Report To: AFS Boru Sanayi A.S.

Document Reference: 403636 & 403637

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 application rate
Flexible ducting product	"COMBIAFS"	150 microns	300g/m ² ± 10%
Individual components used to manufacture composite:			
Aluminium foil (test face)	"Aluminium"	9 microns	2.72g/cm ³
Adhesive	Confidential	Not applicable	Unwilling to provide
Polyester film	"Polyester"	12 microns	1.40g/m ³
PVC (reverse face)	"PVC"	Confidential	Confidential
Please see page 5 of this test report for the full description of the product tested			

Test Sponsor AFS Boru Sanayi A.S., Ivedik Organize Sanayi Bolgesi, No. 1468, Cadde No:153, Ostim, Ankara 06370, Turkey


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 21st and 22nd August 2018

Signatories



Responsible Officer
T. Mort *
Senior Technical Officer



Authorised
S. Deeming *
Business Unit Head

* For and on behalf of [Warringtonfire](#).

Report Issued: 29th May 2019

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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 [Warringtonfire](#) test reports No's. 403636 and 403637.

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 [Warringtonfire](#) test reports No's. 403636 and 403637. 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. 403636 and test report No. .403637

Face subjected to tests

The specimens were mounted in the test positions such that the aluminium foil 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+A1: 2009

Fire propagation index, I	=	4.6
subindex, i_1	=	4.1
subindex, i_2	=	0.5
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. This information has not been independently verified by Warringtonfire. All values quoted are nominal, unless tolerances are given.

General description		Flexible ducting product. The sponsor has stated that in practice the product tested is used to form a cylindrical duct that incorporates a reinforcing steel wire helix
Product reference		"COMBIAFS"
Name of manufacturer		AFS BORU SANAYI A.S.
Overall weight per unit area		300 g/m ² ± 10% (stated by sponsor) 297.09g/m ² (determined by Warringtonfire)
Overall thickness		150 micron (stated by sponsor) 0.76mm (determined by Warringtonfire)
Product configuration		<ul style="list-style-type: none"> • Aluminium foil • Adhesive • Polyester film • Adhesive • Aluminium foil • Adhesive • Polyester film • Adhesive • Aluminium foil • PVC
Aluminium foil (test face)	Product reference	"Aluminium"
	Generic type	Aluminium
	Name of manufacturer	See Note 1 below
	Density	2.72g/cm ³
	Thickness	9 microns
	Flame retardant details	See Note 2 below
Adhesive	Product reference	See Note 3 below
	Generic type	See Note 3 below
	Name of manufacturer	See Note 1 below
	Thickness	See Note 4 below
	Application rate	See Note 1 below
	Flame retardant details	See Note 2 below
Polyester film	Product reference	"Polyester"
	Generic type	Polyester
	Name of manufacturer	See Note 1 below
	Density	1.40g/m ³
	Thickness	12 microns
	Flame retardant details	See Note 4 below

Continued on next page

PVC film (reverse face)	Product reference	"PVC"
	Generic type	Polyvinyl chloride (PVC) film
	Name of manufacturer	See Note 1 below
	Weight per unit area	See Note 3 below
	Thickness	See Note 3 below
	Flame retardant details	See Note 4 below
Brief description of manufacturing process		See Note 1 below

Note 1. The sponsor of the test was unwilling 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.

Note 3. The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

Note 4. The 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. 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.

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Revision History

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Reason for Revision:	

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