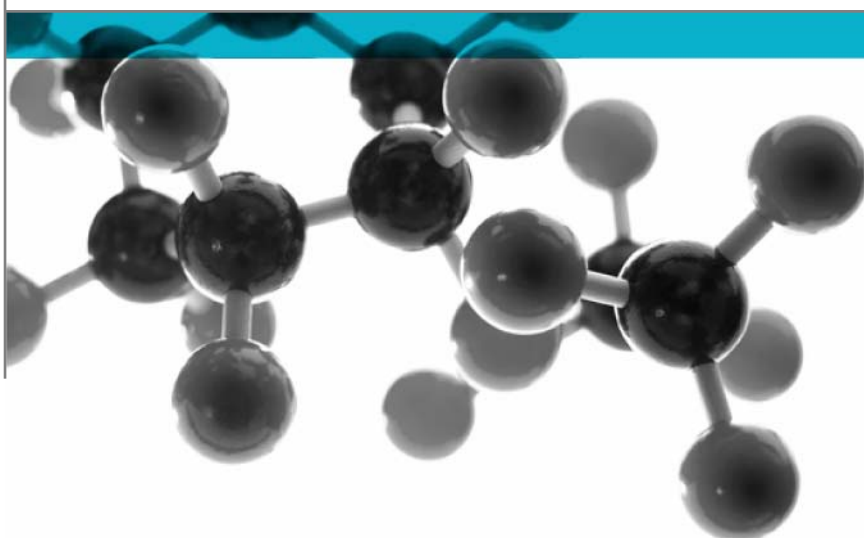


Class 0 Summary Report



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: 30th September 2014

Issue No.: 1

Page 1

A Report To: Pulver Kimya San. Ve Tic. A.Ş.

Document Reference: 340750 & 343850

**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
A coating system applied to both faces of an aluminium substrate	Unwilling to provide	3.12-3.14 mm	1.64 g/cm ³
Individual components used to manufacture composite:			
Final coating product (test face)	"09098.07035"	60-70 microns	1.64 g/cm ³
First coating product	"Chrome-free zirconia-based"	Unable to provide	Unable to provide
Substrate	"Aluminium Plate"	3mm	2.7 g/cm ³
Please see page 5 of this test report for the full description of the product tested			

Test Sponsor Pulver Kimya San. Ve Tic. A.Ş., GOSB Tembelova Alanı 3200, Sokak No: 3201, Gebze, 41400 Kocaeli, 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 15th May & 25th September 2014

Signatories

	
Responsible Officer C. Meachin * Technical Officer	Authorised S. Deeming * Operations Manager

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

Report Issued: 30th September 2014

This version of the report has been produced from a .pdf format electronic file that has been provided by **Exova Warringtonfire** to the sponsor of the report and must only be reproduced in full. Extracts or abridgements of reports must not be published without permission of **Exova Warringtonfire**.

CONTENTS	PAGE NO.
EXECUTIVE SUMMARY	2
SIGNATORIES.....	2
TEST DETAILS.....	4
DESCRIPTION OF TEST SPECIMENS.....	5
CLASSIFICATION	7
REVISION HISTORY	8

Test Details

Terms Reference Of 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. 340750 and 343850.

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. 340750 and 343850. 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. 340750 and test report No. 343850.

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	=	0.0
	subindex, i_1	=	0.0
	subindex, i_2	=	0.0
	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		A coating system applied to both faces of an aluminium substrate
Product reference of composite		See Note 1 below
Name of manufacturer of composite		See Note 1 below
Thickness of composite		3.12-3.14 mm (stated by sponsor) 3.4 mm (determined by Exova Warringtonfire)
Density of composite		1.64 g/cm ³ (stated by sponsor) 2.45 g/cm ³ (determined by Exova Warringtonfire)
Product reference of coating		"RAL7035 PP –PARLAK"
Name of manufacturer of coating		PULVER KİMYA SAN. VE TİC. A.Ş.
Overall thickness of coating		60-70 microns
Overall density/weight per unit area of coating		See Note 2 below
Product configuration		<ul style="list-style-type: none"> • Final coating product • First coating product • Substrate • First coating product • Final coating product
Final coating product (test face)	Generic type	Triglycidyl isocyanurate (TGIC) free polyester powder coating
	Product reference	"09098.07035"
	Name of manufacturer	PULVER KİMYA SAN. VE TİC. A.Ş.
	Colour reference	"RAL 7035" (stated by sponsor) "Grey" (observed by Exova Warringtonfire)
	Number of coats	1
	Application thickness per coat	60-70 microns
	Density	1.64 g/cm ³
	Application method	Electrostatic spray
	Flame retardant details	See Note 1 below
Curing process per coat		180°C for 10 hours
First coating product (if applicable)	Generic type	See Note 1 below
	Product reference	"Chrome-free zirconia-based"
	Name of manufacturer	See Note 1 below
	Colour reference	See Note 1 below
	Number of coats	See Note 2 below
	Application rate / thickness per coat	See Note 2 below
	Density / specific gravity	See Note 2 below
	Application method	Dip coating
	Flame retardant details	See Note 1 below
Curing process per coat		Air drying

Continued on next page

Substrate	Generic type	Aluminium
	Product reference	"Aluminium Plate"
	Name of manufacturer	See Note 1 below
	Thickness	3mm
	Density	2.7 g/cm ³
	Colour reference	See Note 1 below
	Flame retardant details	This component is inherently flame retardant
Brief description of manufacturing process		See Note 1 below

Note 1 - The sponsor was unwilling to provide this information.

Note 2 - The sponsor 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.

This report may only be reproduced in full. Extracts or abridgements shall not be published without permission of **Exova Warringtonfire**.

Revision History

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

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