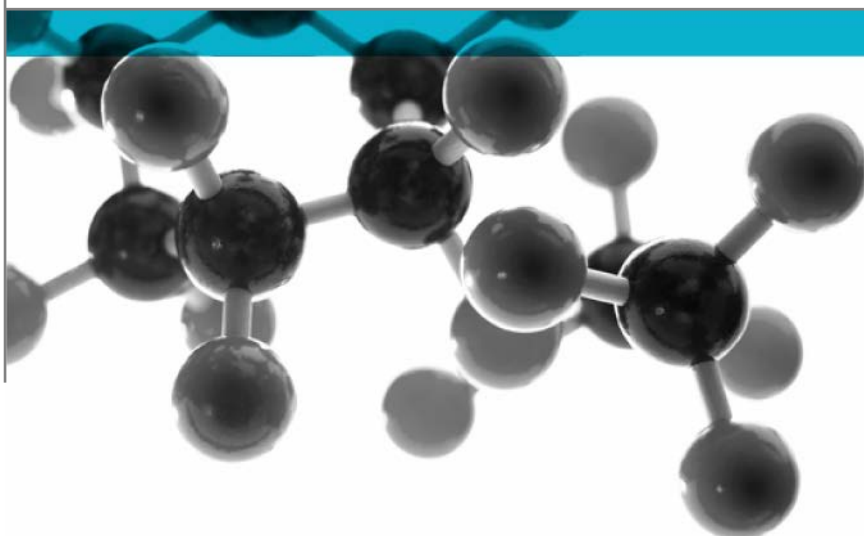


EN 45545-2: 2013 + A1:2015



Summary Test Report – Requirement Table 5 (R1)

Test Method References “T02” (ISO 5658-2:2006+A1:2011. Spread of Flame - Lateral Spread of flame test on Building and Transport Products in Vertical Configuration), “T03.01” (ISO 5660-1: Part 1; Heat Release Rate (Cone Calorimeter Method), “T10.01” / “T10.02” (ISO 5659-2: 2012; Plastics – Smoke Generation. Part 2 Determination of Optical Density by a Single Chamber Method) and “T11.01” (Gas Analysis in the Smoke Box EN ISO 5659-2, using FTIR Technique)

A Report To: Revolutionary Protective Solutions Limited

Document Reference: 362585, 362586 & 362587

Date: 16th March 2016

Issue No.: 1

Page 1

Testing
Advising
Assuring

Executive Summary


Objective To assess the results of tests performed in accordance with methods T02, T03.01, T10.01 / T10.02 and T11.01 as defined in EN 45545-2: 2013 + A1:2015 at an irradiance level of 50kW/m² with a pilot flame, on specimens of a product and to provide an opinion of compliance with the requirements for wall composites, as defined in EN 45545-2: 2013 + A1:2015.

Generic Description	Product reference	Thickness	Weight per unit area / application rate
Anti-graffiti easy maintenance clear coating applied to a Formica substrate	"RPS MK4 Ceramic Clear Coat"	3.09mm*	4.35kg/m ² *
Individual components used to manufacture composite:			
Coating	"RPS MK4 Clear Coat"	10 microns	60m ² /l
Substrate	"Formica"	3mm	Unable to provide
*determined by Exova Warringtonfire			
Please see page 5 of this test report for the full description of the product tested			


Test Sponsor Revolutionary Protective Solutions Limited, 73 Lucas Road, Snodland, Kent, ME6 5PZ

Opinion We consider the results of the tests detailed above demonstrate that the product, as tested, complies with the wall composite requirements, R1 (detailed in Table 5 of EN 45545-2: 2013 + A1:2015) for a HL1 and HL2 Hazard Level Classification.

Signatories



Responsible Officer
 T. Mort *
 Senior Technical Officer



Authorised
 S. Deeming *
 Business unit Head

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

Report Issued: 16th March 2016

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Author:	T. Mort	Issue Date:	16 th March 2016
Client:	Revolutionary Protective Solutions Limited	Issue No.:	1

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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. The specimens were supplied by the sponsor of the test. **Exova Warringtonfire** was not involved in any selection or sampling procedure.

Generic description		Anti-graffiti easy maintenance clear coating applied to a Formica substrate
Product reference		"RPS MK4 Ceramic Clear Coat"
Name of manufacturer		Revolutionary Protective Solutions Ltd
Overall thickness		3.09mm (determined by Exova Warringtonfire)
Overall weight per unit area		4.35kg/m ² (determined by Exova Warringtonfire)
Coating product	Product reference	"RPS MK4 Clear Coat"
	Generic type	Anti-graffiti easy maintenance clear coating
	Name of manufacturer	Revolutionary Protective Solutions Ltd
	Application thickness	10um
	Application rate	60m ² /l
	Application method	Roll and Tip
	Colour	"Clear"
Flame retardant details		See Note 1 below
Laminate	Product reference	"Formica"
	Generic type	High pressure laminate
	Name of supplier	South Easter Trains
	Thickness	3mm
	Weight per unit area	See Note 2 below
Flame retardant details		See Note 2 below
Press details (type, duration, temperature and pressure)		See Note 2 below
Brief description of manufacturing process		See Note 2 below

Note 1. The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

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 wall composite requirements, R1 (detailed in Table 5 of EN 45545-2: 2013 + A1:2015) for a HL1 and HL2 Hazard Level Classification.

Validity of opinion

This opinion is based on the requirements of EN 45545-2: 2013 + A1:2015 at the date of this report. If EN 45545-2 is 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.

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Revision History

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