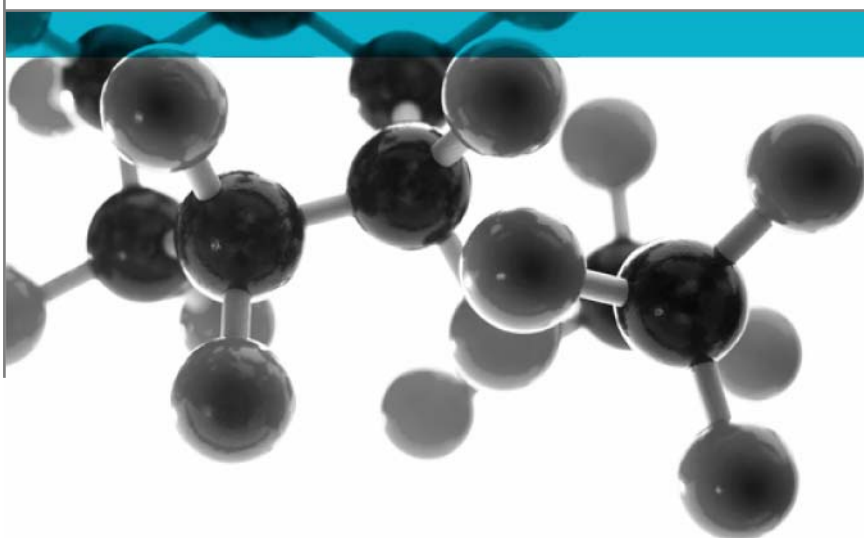


Class 0 Summary Report



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: 15th April 2010

Issue No.: 2

Page 1

A Report To: Parex USA Incorporated

Document Reference: 189824 & 189829

**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 composite 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.


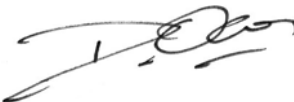

Generic Description	Product reference	Thickness	Weight per unit area or density
External Wall Insulation System	"Parex Standard System"	50mm	17.3kg/m ² *
Individual components used to manufacture composite:			
Acrylic latex	"Parex DPR Finish"	2.5kg/m ²	1.75g/cm ³
Glass fibre fabric	"Standard Mesh"	0.47mm	160g/m ²
Glass fibre fabric	"Heavy Mesh"	1.1mm	525g/m ²
Portland cement-acrylic	"Parex Base Coat & Adhesive 121" / "Maite Monocomposant"	2 nd coat: 2.5 kg/m ² 1 st coat: 4.5 kg/m ²	1.45 g/cm ³
Moulded bead expanded polystyrene	"Aerobord"	35mm *	14kg/m ³
Magnesium base render board	Unable to provide	9mm	1050kg/m ³
*determined by Exova Warringtonfire			
Please see page 5 of this test report for the full description of the product tested			

Test Sponsor Parex USA Incorporated, 4125 E. LA Palma Ave, Anaheim, California, 92807, USA

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 20th January 2010

Signatories

	
Responsible Officer T. Benyon * Technical Officer	Approved D.J. Owen * Senior Technical Officer
	* For and on behalf of Exova Warringtonfire.
Authorised C. Dean * Operations Manager	Report Issued: 15th April 2010

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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 189824 and 189829.

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 189824 and 189829. 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 coated 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	= 7.4
subindex, i_1	= 0.1
subindex, i_2	= 6.2
subindex, i_3	= 1.1

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		External Wall Insulation System	
Overall product reference		"Parex Standard System"	
Overall thickness		50mm (stated by sponsor) 51.6mm (determined by Exova Warringtonfire)	
Overall weight per unit area		17.3kg/m ² (determined by Exova Warringtonfire)	
Product configuration		<ul style="list-style-type: none"> • Final coating(Test face) • Second layer of "Parex Base Coat & Adhesive 121" / "Maite Monocomposant" coating with embedded standard reinforcing scrim • First layer of "Parex Base Coat & Adhesive 121" / "Maite Monocomposant" coating with embedded heavy reinforcing scrim • Polystyrene Insulation • "Parex Base Coat & Adhesive 121" / "Maite Monocomposant" • Magnesium base board 	
Reinforced coating system	Final coating product (Test face)	Generic type	Acrylic latex
		Product reference	"Parex DPR Finish"
		Composition details	Mineral aggregate, acrylic latex binder, TiO ₂ pigment
		Name of manufacturer	Parex USA Incorporated
		Colour	"White"
		Number of coats	1
		Application rate per coat	2.5kg/m ²
		Application method	Trowel
		Specific gravity	1.75
		Flame retardant details	See Note 1 below
	Curing process	Air dry	
	Standard reinforcing Scrim	Generic type	Glass fibre fabric
		Product reference	"Standard Mesh"
		Name of manufacturer	Vertex, a.s.
		Colour	"White"
		thickness	0.47mm
		Weight per unit area	160g/m ²
		Cell dimensions (length x width)	3.5mm x 3.5mm
Flame retardant details		See Note 2 below	

	Heavy reinforcing scrim	Generic type	Glass fibre fabric
		Product reference	"Heavy Mesh"
		Name of manufacturer	Vertex, a.s.
		Colour	"White"
		thickness	1.1mm
		Weight per unit area	525g/m ²
		Cell dimensions (length x width)	5mm x 5mm
		Flame retardant details	See Note 2 below
	Coating product / adhesive	Generic type	Portland cement-acrylic
		Product reference	"Parex Base Coat & Adhesive 121" / "Maite Monocomposant"
		Name of manufacturer	Parex USA, Inc.
		Colour	"Gray"
		Number of coats	2
		Application rate per coat	2 nd coat: 2.5 kg/m ² 1 st coat: 4.5 kg/m ²
		Application method	Trowel
		Specific gravity	1.45 (Paste prior to addition of portland cement)
		Flame retardant details	See Note 1 below
		Curing process per coat	Air Dry
	Polystyrene Insulation	General description	Rigid foam polystyrene
Generic type		Moulded bead expanded polystyrene	
Trade name / product reference		"Aerobord"	
Name of manufacturer		Aerobord	
Thickness		35mm (determined by Exova Warringtonfire)	
Colour		"White"	
Density		14kg/m ³	
Flame retardant details		See Note 2 below	
Substrate	General description	Magnesium base render board	
	Trade name / product reference	See Note 2 below	
	Composition details	CaCO ₃ , MgO, MgCl ₂ and glass and fibre mesh	
	Name of supplier	"Tradewood/Unico Render-Pro"	
	Thickness	9mm	
	Colour	"White"	
	Density	1050kg/m ³	
	Amount of flame retardant	See Note 1 below	

Brief description of assembly process of complete product	<ol style="list-style-type: none">1) Adhere polystyrene insulation to magnesium base board using "Parex Base Coat & Adhesive 121" / "Maite Monocomposant".2) Apply 1st coat of "Parex Base Coat & Adhesive 121 " / "Maite Monocomposant", to polystyrene foam, embed heavy scrim.3) Apply 2nd coat of "Parex Base Coat & Adhesive 121" / "Maite Monocomposant", to first coat, embed standard scrim.4) Apply "Parex DPR Finish"
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Note 1: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of this component.

Note 2: 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. **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 : 1	Issue Date: 14 th April 2010
Revised By: T. Benyon	Approved By: C. Dean
Reason for Revision: Inaccuracy in product description table.	

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