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Testing. Advising. Assuring.

Title:

Classification of
Fire Resistance Performance
in accordance with
EN 13501-2: 2009 for Paroc
Panel AST E

WF Report No:

152750 (Issue 4)

Prepared for:

Paroc Panel System Oy Ab

Skräbbölenie 14-16

FI-21600 Parainen

Finland

Date: 31st March 2006

1. Introduction

This classification report defines the classification assigned to non-loadbearing wall constructions comprising Paroc Panel AST E, in accordance with the procedures given in EN 13501-2:2009.

2. Details of classified product

2.1 General

The element, Paroc Panel AST E, is defined as a non-loadbearing element (partition). Its function is to resist fire in respect of the fire performance characteristics given in Clause 5 of EN 13501-2:2009.

2.2 Product description

The element, Paroc Panel AST E, is fully described in the test reports and Extended Field of Application report provided in support of this classification, which are listed in Clause 3.1.

Product description:

The product that is the subject of this report is a stone wool cored sandwich panel, faced with steel sheet (0.5 mm to 0.7 mm thick), as manufactured by Paroc Panel System Oy Ab, Skräbböentie 14-16, FI-21600 Parainen, Finland, having a nominal thickness of 50, 80, 100, 120, 150, 175, 200 and 240 mm and a nominal density of 120 kg/m³.

The stone wool insulation was manufactured to the tolerances and specifications detailed in the formulation specification for the product having been produced at Paroc Oy Ab, Stone Wool Plant, FIN-21600 Pargas, Finland.

The product, Paroc Panel AST E, is fully described in the test reports provided in support of the classification listed in 3.1.

3. Test reports/extended application reports & test results in support of classification

3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
warringtonfire	Paroc Panel System Oy Ab	WF Test Report No. 146976	EN 1364-1:1999
warringtonfire	Paroc Panel System Oy Ab	WF Test Report No. 150108	EN 1364-1:1999
Instytut Techniki Budowlanej	Paroc Panel System Oy Ab	LP 706.2/05	EN 1364-1:1999
warringtonfire	Paroc Panel System Oy Ab	WF Report No. 152747	EN 15254-5: 2009, Extended application of results from fire resistance tests – Non-loadbearing walls – Part 5: Metal sandwich panel construction

3.2 Test results

Test method & Test number	Parameter		Results
EN 1364-1:1999 WF Test Report No. 146976	Integrity	cotton pad	362 minutes*
		gap gauges	362 minutes*
		sustained flaming	362 minutes*
	Insulation	mean temperature rise	320 minutes
		maximum temperature rise	286 minutes
EN 1364-1:1999 WF Test Report No. 150108	Integrity	cotton pad	46 minutes
		gap gauges	46 minutes
		sustained flaming	46 minutes
	Insulation	mean temperature rise	46 minutes
		maximum temperature rise	47 minutes

Test method & Test number	Parameter		Results
EN 1364-1:1999 LP 706.2/05	Integrity	cotton pad	133 minutes*
		gap gauges	133 minutes*
		sustained flaming	133 minutes*
	Insulation	mean temperature rise	133 minutes*
		maximum temperature rise	132 minutes*

*test discontinued

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with Clause 7.5 of EN 13501-2:2009.

4.2 Classification

The element, Paroc Panel AST E is classified according to the following combinations of performance parameters and classes as appropriate.

R	E	I	W	t	-	M	C	S	IncSlow	sn	ef	r
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4.2.1 50 mm Thickness

Fire resistance classifications:
EI 45
EW 30

4.2.2 80 mm Thickness

Fire resistance classifications:
EI 90
EW 90

4.2.3 100 mm Thickness

Fire resistance classifications:

EI 120
EW 120

4.2.4 120 mm Thickness

Fire resistance classifications:

EI 120
EW 120

4.2.5 150 mm Thickness

Fire resistance classifications:

EI 180
EW 120

4.2.6 175 mm Thickness

Fire resistance classifications:

EI 240
EW 120

4.2.7 ≥ 200 mm Thickness

Fire resistance classifications:

EI 240
EW 120

5. Limitations

This classification document does not represent type approval or certification of the product.

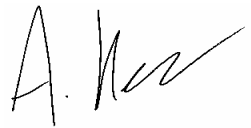
SIGNED



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D. Hankinson

Principal Certification Engineer

APPROVED



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A. Kearns

Technical Manager

Issue 2: Inclusion of 150 mm panel thickness (12th July 2006)

Issue 3: Correction to 50 mm panel classification (25th July 2006)

Issue 4: Changes to document due to update of WF Report No. 152747 (26th April 2010)

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