



**CLASSIFICATION OF REACTION
TO FIRE PERFORMANCE
IN ACCORDANCE WITH EN
13501-1: 2002**

Sponsor: Weyerhaeuser Europe Ltd
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Clonmel
Co. Tipperary
Ireland

Prepared by: Warrington Fire Research Centre
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Notified Body No: 0833

Product name: FLAME RETARDANT 'C' GRADE MEDIUM DENSITY FIBREBOARD

Classification report No.: E139774

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This classification report consists of six pages and may only be used or reproduced in its entirety.

1. Introduction

This classification report defines the classification assigned to 'FLAME RETARDANT 'C' GRADE MEDIUM DENSITY FIBREBOARD', in accordance with the procedures given in EN 13501-1:2002

2. Details of classified product

2.1 General

The product, 'FLAME RETARDANT 'C' GRADE MEDIUM DENSITY FIBREBOARD', is defined as being suitable for use in wall or ceiling applications.

2.2 Product description

The product, 'FLAME RETARDANT 'C' GRADE MEDIUM DENSITY FIBREBOARD', is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

Product description:

The product was "Medite FR" (product reference "C"), a flame retardant grade medium density fibreboard ranging in thickness of between 4mm to 25mm and having a density of 750kg/m^3 which was stated by the sponsor to have been manufactured from softwood fibres, synthetic organic polymer adhesive, wax sizing agent and inorganic flame retardant chemicals.

The specimens were tested with a 40mm ventilated air space situated between the reverse face of the specimen and a substrate of paper faced plasterboard having a thickness of 12mm and a density of 800kg/m^3 .

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
Warrington Fire Research Centre	Weyerhaeuser Europe Ltd	WARRES 136650, 136657	EN 13823
Warrington Fire Research Centre	Weyerhaeuser Europe Ltd	WARRES 136644, 139752	EN ISO 11925-2
Warrington Fire Research Centre	Weyerhaeuser Europe Ltd	WARRES 139776	NB-CPD/SG20-04-003

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
EN 13823 (4mm)	FIGRA _{0.2MJ} LFS THR _{600s}	3	114.06 (-) 9.78	Compliant Compliant Compliant
	SMOGRA TSP _{600s}		33.97 226.04	Compliant Compliant
	Flaming droplets/ particles		None	Compliant

EN 13823 (25mm)	FIGRA _{0.2MJ}	3	160.06	Compliant
	FIGRA _{0.4MJ}	3	159.38	Compliant
	LFS		(-)	Compliant
	THR _{600s}		5.78	Compliant
	SMOGRA		7.47	Compliant
	TSP _{600s}		86.48	Compliant
	Flaming droplets/ particles		None	Compliant

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
EN ISO 11925-2 (30s exposure - surface) (4mm)	F _s	6	25	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure - edge) (4mm)	F _s	6	30	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure - surface) (25mm)	F _s	6	0	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure - edge) (25mm)	F _s	6	0	Compliant
	Flaming droplets/ particles		None	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 10 of EN 13501-1:2002

4.2 Classification

The product, 'FLAME RETARDANT 'C' GRADE MEDIUM DENSITY FIBREBOARD', in relation to its reaction to fire behaviour is classified:

C

The additional classification in relation to smoke production is:

s3

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings is:

Fire Behaviour		Smoke Production				Flaming Droplets	
C	-	s	3	,	d	0	

i.e. C – s3 , d0

Reaction to fire classification: C – s3, d0

4.3 Field of application

This classification is valid for the following end use applications:

- i) Wall or Ceiling Applications, used over any substrate with a fire performance of A2 or better
- ii) Mechanically fastened, with or without an air gap, on to any substrate with a fire performance of A2 or better

This classification is also valid for the following product parameters:

Thickness	Between 4 and 25mm
Density	No variation allowed
Flame Retardant Grade	No variation allowed

5. Limitations

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

SIGNED

APPROVED

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Leigh Hill
Technical Officer
Technical Department

Janet Murrell
Technical Manager
Technical Department
on behalf of
Warrington Fire Research Centre

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