

Reaction to fire classification report Nr 14298C

Owner of the classification report

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Introduction

This classification report defines the classification assigned to the product 'eZero E500' in accordance with the procedures given in the standard EN 13501-1: 2007: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

This classification report consists of 5 pages



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1. DETAILS OF CLASSIFIED PRODUCT

a) Nature and end use application

The product **eZero E500** is defined as a 'insulation system'.
Its classification is valid for the following end use application(s):
'self supporting indoor insulation'.

b) Description

Facing	Generic type	Plaster board
	Product reference	drywall
	Name of manufacturer	Gyproc
	Density (kg/m ³)	700 kg/m ³
	Weight per unit area (g/m ²)	Not communicated
	Thickness (mm)	12 mm
Insulation core	Generic type	polyurethane open cell foam
	Trade name / product reference	eZero E500 Insulation System
	Name of manufacturer	CPI Europe GmbH/CPI Foam Ltd.
	Thickness (mm)	75 mm
	Colour	Light yellow
	Density (kg/m ³)	16 (*)
	Flame retardant details	Contains TCPP
	Reference of the flame retardant	-
	Weight of product applied (g/m ²)	-
	Number and duration of applications	1 pass in 10 s
Nature of the treatment	Sprayed foam	
Facing	Generic type	Plaster board
	Product reference	drywall
	Name of manufacturer	Gyproc
	Density (kg/m ³)	700 kg/m ³
	Weight per unit area (g/m ²)	Not communicated
	Thickness (mm)	12 mm
Surrounding framework	Generic type	Pine wood
	Thickness (mm)	40 mm
	Density (kg/m ³)	576 kg/m ³ (*)

(*) values measured by the laboratory WFRGent N.V.

Remark:

Because of dimension limitations in the test setup, other variations in component thickness were used to carry out the SFT. It can be assumed that the thinner samples are worst case and the test results therefore valid for this classification.

2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

a) Test reports

Name of the laboratory	Name of the sponsor	Test report ref. Nr.	Test method
WFRGENT N.V. Ghent, Belgium	CPI Europe GmbH	14298B	EN 13823 (February 2002)
WFRGENT N.V. Ghent, Belgium	CPI Europe GmbH	14298A	EN ISO 11925-2 (February 2002)

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class B-s1,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) 30s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> -front side - turned 90°	F _s ≤ 150mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
	F _s ≤ 150mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
	F _s ≤ 150mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
	EN 13823	FIGRA _{0,2 MJ} (W/s)	23	(-)	≤ 120	(-)
	FIGRA _{0,4 MJ} (W/s)	12	(-)	≤ 120	(-)	
	LFS _{-edge}	(-)	Yes	(-)	Yes	
THR _{600s} (MJ)	0,8	(-)	≤ 7,5	(-)		
SMOGRA (m ² /s ²)	1	(-)	≤ 30	(-)		
TSP _{600s} (m ²)	32	(-)	≤ 50	(-)		
Flaming droplets/particles f<10s	(-)	No	(-)	No		
f>10s	(-)	No	(-)	No		

(-) Not applicable

(*) The material did not melt nor pull away from the pilot burner.

3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

a) Reference and direct field of application

This classification has been carried out in accordance with EN 13501-1: 2007.

b) Classification

The product **eZero E500** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
B	s1	d0

c) Field of application

This classification for the product as described in §1b, is valid for the following end use conditions :

- Self-supporting
- With or without a void
- Fixing plaster board on wood: mechanically
- With vertical and horizontal joints

This classification is valid for the following product parameters:

- Nominal thickness plasterboard : 12 mm
- Nominal thickness polyurethane open cell foam : 75 mm
- Measured density polyurethane open cell foam: 16 kg/m³
- Nominal thickness wood: 40 mm

4. RESTRICTIONS

At the time the standard EN 13501-1 (2007) was published, no decision was made concerning the duration of validity of a classification report.

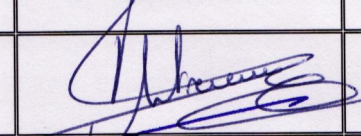
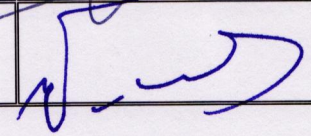
5. WARNING

This classification report does not represent type approval nor certification of the product.

The following statement is included in accordance with Fire Sector Group Recommendation 001rev2:

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability."

Report	Name	Signature (*)	Date
Prepared by	Ing. Frans DUTRIEUE		20 SEP. 2010
Reviewed by	Prof. Dr. Ir. Paul VANDEVELDE		20 SEP. 2010

(*) For and on behalf of "WFRGENT N.V."

EN 13501-1 B-C-D WG 3E*

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