



warringtonfiregent  
global safety

## **Reaction to fire classification report Nr 12049B**

### **Owner of the classification report**

ETERNIT N.V.  
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### **Introduction**

This classification report defines the classification assigned to the product '**Eter-Board HD Etercolor (Integra)**' in accordance with the procedures given in the standard EN 13501-1: 2002: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

**This classification report consists of 6 pages, including 1 annex.**



FOUNDING MEMBER

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1. **DETAILS OF CLASSIFIED PRODUCT**

a) **Nature and end use application**

The product **Eter-Board HD Etercolor (Integra)** is defined as a 'fibre-cement flat sheet'.

Its classification is valid for the following end use application(s):  
'Internal and external wall and ceiling finishes'.

b) **Description**

The product "Eter-Board HD Etercolor (Integra)" consists of a fibre cement board, composed of Portland cement, mineral fillers, organic reinforcement fibres and functional additives. The surface of the material is polished.  
For the mounting see annex 1.

	Nominal values
Thickness (mm)	8
Density (kg/m <sup>3</sup> )	1550

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	ETERNIT N.V.	12048B	EN ISO 1716 (February 2002)
WFRGENT N.V. Ghent, Belgium	ETERNIT N.V.	12049A	EN 13823 (February 2002)

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class A2,s1,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 1716	PCS (MJ/kg) (1)	3	1,2	(-)	≤ 3,0	(-)
EN 13823	FIGRA <sub>0,2 MJ</sub> (W/s)	3	4	(-)	≤ 120	(-)
	FIGRA <sub>0,4 MJ</sub> (W/s)		(-)	(-)	(-)	(-)
	LFS <sub>-edge</sub>		(-)	Yes	(-)	Yes
	THR <sub>600s</sub> (MJ)		0,6	(-)	≤ 7,5	(-)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		2	(-)	≤ 30	(-)
	TSP <sub>600s</sub> (m <sup>2</sup> )		26	(-)	≤ 50	(-)
	Flaming droplets/particles f<10s		(-)	Yes	(-)	Yes
	f>10s		(-)	No	(-)	No

(-) Not applicable

(1) For homogeneous products and substantial components of non-homogeneous products, based on the results obtained in test report Nr. 12048B, base sheet.

3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

a) Reference and direct field of application

This classification has been carried out in accordance with clause 10.7 of EN 13501-1: 2002 and EN 12467:2004/prA2:2004

b) Classification

The product **Eter-Board HD Etercolor (Integra)** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
<b>A2</b>	<b>s1</b>	<b>d0</b>

c) Field of application

The classification applies to fibre cement flat sheets of the same mix formulation as the base sheet, same thickness, same density and same facing or coating thickness as used for the test and within a field determined by the normal manufacturing tolerances.

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

- of the same type, but with different dimensions of length and width.
- with a thickness of 8 mm or higher.
- with a different surface (smooth or embossed).
- density of 1550 kg/m<sup>3</sup>, within a range of  $\pm 0,15$  g/cm<sup>3</sup>.
- with vertical and horizontal joints having a width of 3 mm or smaller.
- fixed with all other types of mechanical devices such as metal nails or rivets.
- fixed at different (wider or closer) horizontal or vertical fixing centres.
- fixed to wooden or metallic profiles.
- without thermal insulation in the cavity or with other types of insulation having a minimum class A2 (acc. EN13501-1), a minimum nominal thickness of 50 mm and a minimum nominal density of  $(70 \pm 20)$  kg/m<sup>3</sup> as long as a ventilated air gap of at least  $40 \pm 1$  mm directly behind the sheets is present.
- without finishes

#### 4. RESTRICTIONS

At the time the standard EN 13501-1 (February 2002) was published, no decision was made concerning the duration of validity of a classification report.

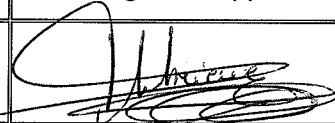

## 5. WARNING

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

"The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of a system 3 attestation of conformity and CE marking under the Construction Products Directive.

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		07 JUNI 2006
Reviewed by	Prof. Dr. Ir. Paul VANDEVELDE		07 JUNI 2006
(*) For and on behalf of "WFRGENT N.V."			

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