

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2007

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|---------------------------------|--|
| Sponsor | Magma Industries B.V. Wagenmakerstraat 15 NL-2984 BD RIDDERKERK The Netherlands |
| Prepared by | Efectis Nederland BV Lange Kleiweg 5 P.O. Box 1090 NL-2280 CB RIJSWIJK The Netherlands |
| Notified Body no. | 1234 |
| Product name | Platowood Fraké (Combretaceae) treated with Magma Firestop® SBP-1 |
| Classification report no | 2009-Efectis-R0927 |
| Issue number | 1 |
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This classification report consists of five pages and may only be used in its entirety.

This report is issued by Efectis Nederland BV (previously **TNO** Centre for Fire Research). Efectis Nederland BV and her sister company Efectis France are full subsidiaries of Efectis Holding SAS since 1st January 2008, in which the Dutch TNO and the French CTICM participate. The activities of the TNO Centre for Fire Research were privatised in Efectis Nederland BV since 1st July 2006. This is in response to international developments and requests by customers. In order to be able to give a better answer to the customer's request and offer a more comprehensive service of high quality and a wider range of facilities, the international collaboration has been further expanded. This is done with highly experienced partners in fire safety in Norway (Sintef-NBL), Spain (Afiti-Licof), Germany (IFT), USA (South West Research Institute) and China (TFRI). Further information can be found at our website.

1. Introduction

This classification report defines the classification assigned to **Platowood Fraké (Combretaceae)** treated with **Magma Firestop® SBP-1** in accordance with the procedures given in EN 13501-1: 2007.

2. Details of classified product

2.1 General

The product, **Platowood Fraké (Combretaceae)** treated with **Magma Firestop® SBP-1**, is defined as a wall and ceiling panel.

2.2 Product description

The product was composed as follows:
Vacuum pressure treated **Platowood Fraké** with **Magma Firestop® SBP-1**;
The impregnation cycle consisted of
- 15 minutes initial vacuum at 0.7 bar
- 120 minutes pressure impregnation at 9 bar
- 15 minutes final vacuum at 0.7 bar

Moisture content was approximately 5% at time of testing;
Retention of the product is 0.19 kg/m²

Further details can be found in the table below;

| Density, Moisture Content | | Thickness | Treatment | | Vacuum-Pressure Impregnation | | |
|---------------------------|----------------------|-----------|----------------------|----------------------|------------------------------|-----------|-----------------|
| Normal, 5% | Dry weight, 0% | | 12% | 12% | Pre vacuum | Pressure | Final vacuum |
| [kg/m ³] | [kg/m ³] | [mm] | [kg/m ³] | [kg/m ²] | [bar/min] | [bar/min] | [bar/min] |
| 438 | 415 | 15 | 30 | 0.19 | 0.7 / 15 | 9 / 120 | 0.7 / 15 |

2.3 Manufacturer/Importer

Magma Industries B.V.
Wagenmakerstraat 15
NL-2984 BD RIDDERKERK
The Netherlands

3. Test reports & test results in support of classification

3.1 Test reports

| Name of Laboratories | Name of sponsor | Test reports | Test method |
|---|--|--|--------------------------------------|
| Efectis Nederland BV The Netherlands | Magma Industries B.V. The Netherlands | 2009-Efectis-R0925 2009-Efectis-R0926 | EN ISO 11925-2:2002 EN 13823:2002 |

3.2 Test results

| Test method & test number | Parameter | No. tests | Results | |
|---|--|-----------|---------------------------------|------------------------|
| | | | Continuous parameter - mean (m) | Compliance parameters |
| EN 13823 | FIGRA _{0.2MJ} [W/s] | 3 | 61 | - |
| | FIGRA _{0.4MJ} [W/s] | | 43 | - |
| | THR _{600s} [MJ] | | 2.9 | - |
| | LFS < edge | | - | Compliant |
| | SMOGRA [m ² /s ²] | | 12 | - |
| | TSP _{600s} [m ²] | | 79 | - |
| | Flaming debris - flaming ≤ 10 s - flaming > 10 s | | - | Compliant Compliant |
| EN-ISO 11925-2 surface flame impingement | Fs ≤150 mm | 6 | 38 | - |
| | Ignition of filter paper | | - | Compliant |
| EN-ISO 11925-2 edge flame impingement | Fs ≤150 mm | 6 | 39 | - |
| | Ignition of filter paper | | - | Compliant |

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 11 of EN 13501-1:2007

4.2 Classification

The product, **Platowood Fraké (Combretaceae)** treated with **Magma Firestop® SBP-1**, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

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

d0

Reaction to fire classification: B - s1, d0

4.3 Field of application

This classification is valid for the following product parameters:

- | | |
|-------------|--|
| - Thickness | approx. 15 mm and more |
| - Density | approx. 410 kg/m ³ (dry weight, before treatment) |
| - Treatment | vacuum impregnation, as described, to approx. 0.20 kg/m ² |

This classification is valid for the following end use applications:

- | | |
|---------------------------------------|---|
| - Substrate | non-combustible (class A1/A2 according to EN 13501-1) |
| - Air gap | with an air gap of 40 mm |
| - Joints | open joints between the boards |
| - Other aspects of end use conditions | wall or ceiling cladding product |

4.4 Duration of the validity of this classification report

There are no limitations in time on the validity of this report.

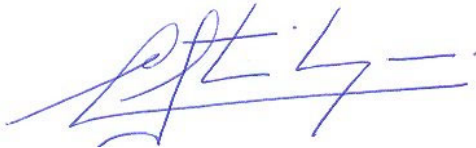
5. Limitations

This classification document does not represent type approval or 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 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, supplied by the manufacturer, to provide for traceability of the samples tested.



Ing. C.C.M. Steinhage



MSc. J.F. Ostenfeldt

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