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AUTHORIZED BODY AO 216
NOTIFIED BODY NB 1391
*Accredited Certification Body for
Product Certification No. 3041*

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REACTION-TO-FIRE CLASSIFICATION REPORT

The object of
classification:

*Construction products excluding floorings and linear pipe
thermal insulation products
in accordance with CSN EN 13501-1+A1: 2010, clause 11
Floor coverings
in accordance with CSN EN 13501-1+A1:2010, clause 12*

Issue number:

PK1-01-05-012-E-2

Product name and type:

Fire-resistant and non-combustible board Grenamat AL

Sponsor:

*GRENA, a.s.
Čs. armády 540
391 81 Veselí nad Lužnicí
Czech Republic*

Issuing organization:

*PAVUS, a.s.
Authorized Body AO 216
Notified Body NB 1391
Accredited Certification Body for Product Certification No.
3041 - accreditation issued by the Czech Institute for
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Date of issue:

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1. INTRODUCTION

- 1.1. This Classification Report specifies classification method for *fire-resistant and non-combustible board Grenamat AL* in conformity with the procedures set forth in CSN EN 13501-1+A1.
- 1.2. This Classification Report has 4 pages and it can be used or reproduced as a whole only.
- 1.3. This Classification Report substitutes and disturbs the Classification Report No.PK1-01-05-012-A-1 of 2010-05-11.

2. DETAILED INFORMATION ON THE ELEMENT TO BE CLASSIFIED

2.1. General

The product – *fire-resistant and non-combustible board Grenamat AL* - is intended as fire protection of building structures, as a fire-resistant partition, as a protection of steel and air-conditioning ducts, as an increase of fire resistance of existing structures and as specific structures, like panels of fire shutters, walls of safes, for the production of furniture and the like.

2.2. Product description

Boards are made from expanded vermiculite and inorganic binder. They are ecologically harmless and temperature resistant up to 1200 °C. They have very good acoustic and thermal insulating properties. Can be machined by common woodworking tools. Density is of (450-900) kg/m³.

3. TESTS REPORTS AND TEST RESULTS IN SUPPORT OF CLASSIFICATION

3.1. Reports

Name of Laboratory Address Accreditation number	Name of sponsor of the Test Report	Report number Date of issue	Test method
PAVUS, a. s. Veselí nad Lužnicí AZL č. 1026	GRENA, a. s. Čs. armády 540 391 81 Veselí nad Lužnicí Czech Republic	Pr-05-1.01.026 2005-05-30	ČSN EN ISO 1716:2010
		Pr-05-1.01.027 2005-05-30	ČSN EN ISO 1182:2011



3.2. Results

Test method	Parameter	Number of tests	Results	
			Continuous parameter-mean	Compliance with parameters
ČSN EN ISO 1716	PCS (MJ/kg)	3	0.07	≤ 2.0 (A1, A1 _n)
ČSN EN ISO 1182	ΔT (°C)	5	3.20	≤ 30 (A1, A1 _n)
	Δm (%)		8.10	≤ 50 (A1, A1 _n)
	t _f (s)		0	0 (A1, A1 _n)

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. Reference of classification

This classification has been carried out in accordance with clause 11 and 12, CSN EN 13501-1+A1.

4.2. Classification

The product - *fire-resistant and non-combustible board Grenamat AL* - in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: A1

Reaction to fire classification: A1_n

Field of application

This classification is valid for *fire-resistant and non-combustible board Grenamat AL* with random thickness and with density of (450-900) kg/m³.

This classification is valid for the following end-use applications:

The product - *fire-resistant and non-combustible board Grenamat AL* - is intended as fire protection of building structures, as a fire-resistant partition, as a protection of steel and air-conditioning ducts, as an increase of fire resistance of existing structures and as specific structures, like panels of fire shutters, walls of safes, for the production of furniture and the like.

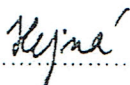
5. LIMITATIONS

This classification was extended on the client statement, that the production technology, components of the product and their suppliers were not changed and on the fact, that there was no change in test methodology by which tests used for this classification were performed.

This Classification Report does not represent type approval or certification of the product.

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.

Undertaken by:



Ing. Pavla Hejná
Fire Service

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Authorized by:

