



# Centrum stavebního inženýrství a.s.

Fire Technical Laboratory

AUTHORIZED  
BODY No. 212

NOTIFIED  
BODY No. 1390

## CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH ČSN EN 13501-1+A1:2010

**Applicant:** GRENA, a.s.  
ČS Armády 540  
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Czech Republic

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**Product name:** *Grenamat AS*

**Classification  
report No.:** PK-14-051

**Issue number:** 1/2

**Date of issue:** 22<sup>nd</sup> April 2014

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## 1. DETAILS OF CLASSIFIED PRODUCT

### Nature and end use application:

Classification of the product *Grenamat AS* is valid for the following end use application:

Refractory board.

### Description:

The product *Grenamat AS* is fully described in the test reports in support of the classification listed in clause 2.

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

### Test reports

Name of laboratory	Name of sponsor	Test report ref. no.	Test method
CSI a.s. Fire Technical Laboratory	GRENA, a.s.	14441 – 2/2	ČSN EN ISO 1716
		14441 – 1/2	ČSN EN ISO 1182

### Measured values and test results

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
ČSN EN ISO 1716	PCS (MJ/kg)	3	0,06	≤ 2 (A1)
ČSN EN ISO 1182	$\Delta T$ (°C)	5	5,1	≤ 30 (A1)
	$\Delta m$ (%)	5	5,3	≤ 50 (A1)
	$t_f$ (s)	5	0,0	= 0 (A1)

### 3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

#### Reference and direct field of application

This classification has been carried out in accordance with the clauses 11.8.1 of ČSN EN 13501-1+A1:2010.

#### Classification

The product *Grenamat AS* in relation to its reaction to fire behaviour is classified:

**A1**

The additional classification in relation to smoke production is:

**not classified**

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

**not classified**

The format of the reaction to fire classification for *Grenamat AS* is:

Fire behaviour		Smoke production			Flaming droplets	
A1	-	s	not classified	,	d	not classified

**Reaction to fire classification: A1**

#### Field of application

This classification is valid for the following product parameters:

- thickness: without limitation

## 4. LIMITATIONS

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### Restrictions

This classification report is valid until 22<sup>nd</sup> April 2019, provided that the technical specifications of the product will not be changed.

### Warning

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

Prepared:



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Jiří Socha



Reviewed:



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Vít Slaboch  
head of laboratory