



„MEŽA UN KOKSNES PRODUKTU PĒTNIECĪBAS UN ATTĪSTĪBAS INSTITŪTS” SIA

VAT No. LV 43603022749

Dobeles iela 41, Jelgava, LV-3001, Latvia

Phone +371 63010605 \* Fax +371 63010609 \* E-mail meka@e-koks.lv \* Web www.e-koks.lv



## Classification of reaction to fire performance in accordance with EN 13501-1:2007+A1:2009

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**Sponsor:** IK “Center for Testing and European Certification – CTEC”.

Customer’s address: Engures iela 5-69, Jūrmala, LV-2016, Latvia.

Reg. No. 40002168920

**Manufacturer:** LLC “Scientific and production enterprise “Ukrmagnesite””, Reg. No. 23638610.

Manufacturer’s address: 40022, Ukraine, Sumy, Skryabin street 7.

**Prepared by:** SIA “Meža un koksnes produktu pētniecības un attīstības institūts” (*Forest and Wood Products Research and Development Institute Ltd*).

**Product name:** Magnesite board “Standard”; “Premium” and “Facade”.

Laboratory involved in testing is accredited by the Latvian National Accreditation Bureau (LATAK) according to the standard LVS EN ISO/IEC 17025 under the terms of Latvian legislation with reg. No. T-316. Laboratory is a notified body with reg. No. NB 2040 under construction product regulation Nr. 305/2011.

*Classification report refers only to these test objects. This classification report may not be reproduced otherwise than in full text, excepted with the prior written approval of the Forest and Wood Products Research and Development Institute*

## 1. Introduction

This classification report defines the reaction to fire classification assigned to Magnesite board “Standard”; “Premium” and “Facade” in accordance with the procedures given in EN 13501-1:2007+A1:2009.

## 2. Details of classified product

### 2.1. General

Magnesite board “Standard”; “Premium” and “Facade” is defined as self-supporting facing building panels for interior and exterior applications. Magnesite board “Standard”; “Premium” and “Facade” is not described by any harmonized European product standard.

### 2.2. Product description

- Product name: Magnesite board “Standard”; “Premium” and “Facade”.
- Materials used for product manufacturing: Magnesium oxide, magnesium chloride, Fillers: perlite (volcanic sand), fiberglass and nonwoven material reinforcement from each side.
- Product nominal thickness: 10 mm.
- Density: Magnesite board “Standard” – 750-1000 kg/m<sup>3</sup>; Magnesite board “Premium” – 900-1200 kg/m<sup>3</sup>; Magnesite board “Facade” – 1000-1400 kg/m<sup>3</sup>.

## 3. Test reports and test results in support of classification

### 3.1. Test reports

Name of laboratory	Name of sponsor	Test report No.	Date of report	Test method
SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	IK “Center for Testing and European Certification – CTEC”	1460-1/2015	15.05.2015.	EN 13823:2010
SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	IK “Center for Testing and European Certification – CTEC”	1460-2/2015	15.05.2015.	EN ISO 1716:2010

### 3.2. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance parameters
EN 13823:2010	$FIGRA_{0,2MJ}$ (W/s)	5	Threshold not reached	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		Threshold not reached	(-)
	$THR_{600s}$ (MJ)		0.4 <sup>a</sup> ; (0.2 <sup>b</sup> ); (0.4 <sup>c</sup> )	Compliant
	LFS		<1000 mm	Compliant
	$SMOGRA$ (m <sup>2</sup> /s <sup>2</sup> )		Threshold not reached	Compliant
	$TSP_{600s}$ (m <sup>2</sup> )		20.6 <sup>a</sup> ; (17.5 <sup>b</sup> ); (20.1 <sup>c</sup> )	Compliant
EN ISO 1716:2010	Flaming droplets <10s		no	Compliant
	Flaming droplets >10s		no	Compliant
	Gross heat of combustion	3	1.8175 <sup>a</sup>	Compliant
	$Q_{PCS}$ (MJ/kg)	3	1.0013 <sup>b</sup>	Compliant
		3	1.9426 <sup>c</sup>	Compliant
(-) not applicable <sup>a</sup> - Magnesite board "Standard". <sup>b</sup> - Magnesite board "Facade". <sup>c</sup> - Magnesite board "Premium".				

## 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+A1:2009.

### 4.2. Classification

Magnesite board "Standard"; "Premium" and "Facade in relation to its reaction to fire behaviour is classified:

A2

The additional classification in relation to smoke production is:

s1

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

d0

The format of the reaction to fire classification for construction product excluding floorings and linings is:

Fire behaviour		Smoke production			Flaming droplets	
A2	-	s	1	,	d	0

**Reaction to fire classification: A2-s1,d0**



#### 4.3. Field of application

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

Magnesite board “Standard”; “Premium” and “Facade” is intended to use in finishing work in living, administrative, public buildings and premises for interior finishing of walls, for interior partitions, floors, for suspended ceilings and others.

4.3.2. This classification is also valid for following product variations:

Thickness: valid for thickness as tested.  
Density: valid for product density within limits as declared.  
Product composition: valid only for product composition as tested.

4.3.3. Classification valid for following substrates and air gaps:

Mounting: valid for product mounting with ventilated or unventilated air gap between product and substrate as well as for mounting without air gaps.  
Substrates: product performance determined without substrates. Classification is valid for product mounting on substrates of reaction to fire class A1 and A2-s1-d0.  
Joint: product tested without joints.  
Joint specification: -

#### 5. Limitations.

5.1. No restrictions on the duration of validity of this classification report as long as the product specifications remain unchanged.

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



Prepared by

(signature)

E. Bukšāns

Reviewed by

(signature)

K.Būmanis

