

Department for Building Physics  
Fire Laboratory

Zavod za gradbeništvo Slovenije

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Ljubljana, 22<sup>nd</sup> November 2010

Translation of the report No. P 0942/10-530-4  
written in Slovene language

## CLASSIFICATION REPORT

No. P 0942/10-530-5

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

**KERROCK Sheets, 12 mm thick**

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**Sponsor:** Kolpa d.d. Metlika, Rosalnice 5, 8330 Metlika  
**Order No:** 1005427 dated 10<sup>th</sup> August 2010  
(pro-forma no.: 10-010-000203 dated 12<sup>th</sup> August 2010)

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**Responsible investigator:**  
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*Dušan Čalić*



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Milan Hajduković, B.Sc.

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Other accreditations: BUREAU VERITAS (Certificate of Recognition No. SMS.L.I.CE/2900/A.7  
CROATIAN REGISTER OF SHIPPING (Certificate for Approval of Testing Institution No. 01-005787/014253)

Member  - European Group of Organisations for Fire Testing, Inspection and Certifications

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Obr. P.S. 12-001-01/2

## 1. Introduction:

This classification report defines the classification assigned to a product **Kerrock sheets, 12 mm thick**, in accordance with the procedures given in SIST EN 13501-1:2007 (identical to EN 13501-2007).

## 2. Details of classified product:

### 2.1 General:

Kerrock sheets can be used as a facade element (external use) and as a wall and ceiling lining (internal use). Sheets are manufactured in numerous colour combinations and various effects, from single-colour to granite and terraco effects.

Kerrock sheets have a thickness of 12 mm. The standard formats have dimensions of up to 3600 × 1350 mm, 3600 × 670 mm and 3600 × 760 mm. The sheets may be installed vertically or horizontally. The visible side of the Kerrock façade element is polished. The edges are slightly polished or additionally profiled. The sheets are attached to the substructures of buildings in various mechanical ways or by gluing.

### 2.2 Product description:

Kerrock sheets are composite materials made from 2/3 aluminium hydroxide and 1/3 of binding substance.

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

### 3.1 Test reports:

Laboratory	Name of sponsor	Report No.	Test method
ZAG Ljubljana	KOLPA d.d.	P 0942/10-530-2	EN 13823:2002
ZAG Ljubljana	KOLPA d.d.	P 0942/10-530-3	EN ISO 11925-2:2002

### 3.2 Test results:

Test method & test number	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance with parameters
SIST EN ISO 11925-2:2002 12 mm thick	surface $F_s \leq 150$ mm	6	-	yes
	edge $F_s \leq 150$ mm	6	-	yes
	ignition of the paper		-	no ignition
SIST EN 13823:2002 12 mm thick	$FIGRA_{0,2 MJ}$ (W/s)	3	28,2	-
	$FIGRA_{0,4 MJ}$ (W/s)		28,2	-
	LFS < rob	-	compliant	
	$THR_{600s}$ (MJ)	4,2	-	
	$SMOGR_A$ ( $m^2/s^2$ )	0,0	-	
	$TSP_{600s}$ ( $m^2$ )	9,6	-	
	Flaming droplets/particles		no	compliant

#### 4. Classification and field of application:

##### 4.1 Reference:

This classification has been carried out in accordance with SIST EN 13501-1:2007.

##### 4.2 Classification:

The product KERROCK sheet, 12 mm thick, relation to its reaction to fire behaviour is classified:

**B**

Additional classification with respect to quantity of released smoke:

**s1**

Additional classification with respect to burning drops/particles:

**d0**

The format of the reaction to fire classification for construction products is:

Fire behaviour		Smoke production			Flaming droplets	
<b>B</b>	<b>-</b>	<b>s</b>	<b>1</b>	<b>,</b>	<b>d</b>	<b>0</b>

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

##### 4.3 Field of application:

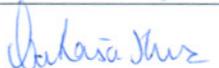
This Classification applies for independently used sheets as described in item 2, which are screwed onto a structure made of grade A1 or A2 materials.

Sheets with a thickness of 12 mm are used to make facades.

This classification applies for all sheet colours.

#### 5. Limitations:

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

	Name	Signature	Date
Prepared by:	Dušan Čalić, M.Sc.		22.11.2010
Review by:	Nataša Knez, Ph.D.		22.11.2010