



jakość w budownictwie

**Instytut Techniki Budowlanej**

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ZAKŁAD BADAŃ OGNIOWYCH | 02-656 Warszawa | ul. Ksawerów 21 |  
tel. 22 853 34 27 | fax 22 847 23 11 | fire@itb.pl | www.itb.pl

# CLASSIFICATION REPORT

## REACTION TO FIRE

### according to PN-EN 13501-1+A1:2010

Contract nr: 1291/13/Z00NP

<b>Customer:</b>	<b>MACtac EUROPE SA</b> <b>Bd Kennedy, Zoning Industriel, Zone B</b> <b>7060 Soignies</b> <b>Belgium</b>
<b>Prepared by:</b>	<b>Fire Research Department</b> <b>Building Research Institute</b> <b>1 Filtrowa Str.</b> <b>00-611 Warszawa</b>
<b>Product name:</b>	<b><i>PVC-based self-adhesive films MACtac</i></b>
<b>Classification report №:</b>	<b>1291.2/13/Z00NP (English version of 1291.1/13/Z00NP)</b>
<b>Issue nr: 1</b>	<b>Copy № 1</b>
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#### 1. Introduction

This classification report defines the classification assigned to **PVC-based self-adhesive films MACtac** in accordance with procedures given in PN-EN 13501-1+A1:2010. The film WW 200 of a maximum thickness was tested.

#### 2. Details of classified product

##### 2.1. General

**PVC-based self-adhesive films MACtac** are used as decorative wall coverings. Films are produced by the company MACtac EUROPE SA, Belgium.

## 2.2 Product description

The product is described below.

**PVC-based self-adhesive films MACtac** are produced in groups which differ in colour and/or texture. Films are covered with acrylic adhesive on one-side (except the MACstat group), covered by the paper liner (surface mass from 90 to 160 g/m<sup>2</sup>). Groups of products included in the assortment are:

- Group IMAGin LF/LUV 33xx, LF 34xx, 38xx, LF/LUV 39xx (film thickness of 30 - 80 µm), LUV 6301 (film thickness of 100 µm), PF 6300 (film thickness of 125 µm),
- Group IMAGin JT 5000 (film thickness of 50 - 150 µm),
- Group MACal - 8200 Pro/8300 Pro/9700 Pro/9800 Pro/8000, MACcrystal (film thickness of 66 – 110 µm),
- Group Glass Decor 700 (film thickness of 80 µm),
- Group WW (film thickness of 55 – 150 µm),
- Group StreetRap i StreetRap Protect (film thickness of 85 - 125 µm),
- Group TuningFilm (film thickness of 60 - 150 µm),
- Group MACstat (film thickness of 150 µm),
- Group PermaFun (film thickness of 60 - 150 µm),
- Group PermaGard 72xx (film thickness of 70 µm).

## 3. Test reports and test results as a basis of the classification

### 3.1. Test reports

Laboratory	Customer	Test report nr	Test method
Fire Testing Laboratory Building Research Institute	MACtac EUROPE SA	LPP01-1291/13/Z00NP	PN-EN 13823:2010
		LPP02-1291/13/Z00NP	PN-EN ISO 11925-2:2010

### 3.2. Test results for WW 200 film

Test method	Parameter	Number of tests	Results	
			Continuous parameter – mean (m)	Compliance with the parameter
PN-EN ISO 11925-2 30 s exposure	Flame propagation $F_s \leq 150$ mm	6	(-)	Y
	Flaming droplets/particles		(-)	N
PN-EN 13823	FIGRA <sub>0,2MJ</sub> [W/s]	3	142,2	(-)
	FIGRA <sub>0,4MJ</sub> [W/s]		119,3	(-)
	LFS < edge		(-)	Y
	THR <sub>600s</sub> [MJ]		1,4	(-)
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]		25,5	(-)
	TSP <sub>600s</sub> [m <sup>2</sup> ]		39,2	(-)
	Flaming droplets/particles		(-)	N

(-) – not applicable, Y - Yes, N – No

## 4. Classification and the field of application

### 4.1. Reference of the classification

The classification has been carried out in accordance with PN-EN 13501-1+A1:2010.

### 4.2. Classification

The products, **PVC-based self-adhesive films MACTac**, in relation to its reaction to fire behaviour are classified:

**C**

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 products excluding floorings and linear pipe thermal insulation products is:

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

i.e.: **C-s1,d0**

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

### 4.3 Field of application

This classification is valid for the following parameters: **PVC-based self-adhesive films MACTac** described in section 2.2.

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

- **PVC-based self-adhesive films MACTac with acrylic adhesive** on one side glued directly on metal-based substrates with thickness at least 1.0 +/- 0.2 mm,
- **PVC-based self-adhesive films MACstat** fixed directly on metal-based substrates with thickness at least 1.0 +/- 0.2 mm by electrostatic properties of the material.

### 5. Limitations

This classification will be valid until:

- The test method remains unchanged,
- Product standard or technical approval remains unchanged,
- Constructional or material modifications do not exceed limits of the field of application defined in 4.3.

This classification report has been issued in three copies. Additional approved copies can be issued by Fire Research Department – Building Research Institute under the request of the report's owner only.

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

**Signed**



Katarzyna Kaczorek-Chrobak MSc Eng.

**Approved**



Andrzej Borowy PhD



Andrzej Kolbrecki PhD Eng