



# 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:** XL MAT  
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France

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**Product name:** *Duoreflex 200*

**Classification  
report No.:** PK-12-124

**Issue number:** 1/2

**Date of issue:** 7<sup>th</sup> December 2012

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## 1. DETAILS OF CLASSIFIED PRODUCT

### Nature and end use application:

Classification of the product *Duoreflex 200* is valid for the following end use application:

Thermal insulation.

### Description:

The product *Duoreflex 200* 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	XL MAT	16301 - 1/3	ČSN EN ISO 11925-2
		16301 - 2/3	
		16301 - 3/3	ČSN EN 13823

### Test results:

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
ČSN EN ISO 11925-2 exposition = 30 s	$F_s \leq 150 \text{ mm}^{(1)}$	6	yes	yes (B to D)
	$F_s \leq 150 \text{ mm}^{(2)}$	6	yes	yes (B to D)
	ignition of the filter paper	12	no	no (d0)
ČSN EN 13823	$FIGRA_{0,4 \text{ MJ}} \text{ (W/s)}$	3	92,8	$\leq 120 \text{ (B)}$
	$LFS > \text{edge}$	3	no	no (B)
	$THR_{600 \text{ s}} \text{ (MJ)}$	3	1,3	$\leq 8,5 \text{ (B)}$
	$SMOGRA \text{ (m}^2/\text{s}^2)$	3	0,0	$\leq 30 \text{ (s1)}$
	$TSP_{600 \text{ s}} \text{ (m}^2)$	3	16,4	$\leq 50 \text{ (s1)}$
	flaming droplets / particles	3	no	no (d0)

(-): not applicable

(1): surface flame attack

(2): edge flame attack

### 3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

#### Reference and direct field of application

This classification has been carried out in accordance with the clause 11.6, 11.9.2 and 11.10.1 of ČSN EN 13501-1+A1:2010.

#### Classification

The product *Duoreflex 200*, in relation to its reaction to fire behaviour is classified:

**B**

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 *Duoreflex 200* is:

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

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

#### Field of application

This classification is also valid for the following product parameters:

- thickness of aluminium foil  $\geq 12 \mu\text{m}$

## 4. LIMITATIONS

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### Restrictions

This classification report is valid until 7<sup>th</sup> December 2017, 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