



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

Contract no. 02415/17/Z00NZZ

<b>Sponsor:</b>	<b>STEICO Sp. z o.o. ul. Przemysłowa 2 64-700 Czarnków</b>
<b>Prepared by:</b>	<b>Building Research Institute; 1, Filtrowa str. 00-611 Warszawa, Poland</b>
<b>Product name:</b>	<b>Cellulose loose fill insulation Steico floc</b>
<b>Classification report no.:</b>	<b>2415/17/Z00NZZ-E</b>
<b>Issue number:</b>	<b>1 (version in English) Copy no.1</b>
<b>Date of issue:</b>	<b>27.11.2017</b>

This classification report consists of three pages and may only be used or reproduced in its entirety.

### 1. Introduction

This classification report defines the classification assigned to cellulose loose fill insulation Steico floc in accordance with the procedures given in PN-EN 13501-1+A1:2010.

### 2. Details of classified product

#### 2.1 General

The product is defined as cellulose loose fill insulation used for thermal insulation in construction.

#### 2.2 Product description

The product, is described below.

Product description:

The density of cellulose loose fill insulation Steico floc from 27 kg/m<sup>3</sup> to 60 kg/m<sup>3</sup>.

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

#### 3.1 Test reports

Name of laboratory	Name of sponsor	Test report no.	Test method
Fire Testing Laboratory of ITB	STEICO Sp. z o.o.	LZP01-01963/17/Z00NZZ	PN-EN ISO 11925-2:2010
		LZP02-01963/17/Z00NZZ	PN-EN 13823+A1:2014

**3.2 Test results**

Test method	Parameter	Number of tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
PN-EN ISO 11925-2:2010+AC:2011 Surface and edge exposure exposure time 30 s	$F_s \leq 150$ mm	6	(-)	Y
	Flaming Droplets/particles		(-)	N
PN-EN 13823+A1:2014	FIGRA <sub>0,2MJ</sub>	3	26,8	(-)
	FIGRA <sub>0,4MJ</sub>		17,4	(-)
	LFS < edge		(-)	Y
	THR <sub>600s</sub> [MJ]		1,6	(-)
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]		2,4	(-)
	TSP <sub>600s</sub> [m <sup>2</sup> ]		41,4	(-)
	Flaming Droplets/particles		(-)	N
(-): do not concern Y: Yes N: No				

**4 Classification and field of application****4.1 Reference of classification**

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

**4.2 Classification**

The products, cellulose loose fill insulation Steico flocc, in relation to its reaction to fire behaviour are 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 construction products excluding floorings and linear pipe thermal insulation 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>

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

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

### 4.3 Field of application

This classification is valid for the following product parameters:

- Cellulose loose fill insulation Steico floc described in point 2 this classification report.

This classification is valid for the following substrates, fixing and air gaps:

- substrates with minimum fire classification A2-s3,d0 acc.to PN-EN 13501-1

### 5 Limitations

This classification given remains valid as long as:

- 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 (2 for Sponsor and one copy for ITB). Additional signed copies can be issued by Fire Research Department of ITB on the request of the report's owner only.

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

#### SIGNED

Head of Fire Development  
and Material Testing Division

  
Bartłomiej K. Papis, Ph.D. Eng.

#### APPROVED

ACTING HEAD  
of Fire Research Department

  
Marek Lukomski, M.Sc. Civil Eng.