



CLASSIFICATION REPORT REACTION TO FIRE according to PN-EN 13501-1:2019-02

Contract No: 03725/19/Z00NZP

Customer:	POZ BRUK Sp. z o.o. SP. j. Sobota ul. Poznańska 43 62-090 Rokietnica
Prepared by:	Fire Research Department Building Research Institute 1 Filtrowa Str. 00-611 Warszawa
Product name:	Ventilated facade using painted fiber cement plates with the trade name SCALAMID
Classification report No:	03725/19/Z00NZP-ENG (English version of classification 03725/19/Z00NZP)
Issue number: 1	Copy No 3
Date of issue:	08.04.2020

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

1. Introduction

This classification report defines the classification assigned to ventilated facade using painted fiber cement plates with the trade name SCALAMID in accordance with procedures given in PN-EN 13501-1:2019-02.

2. Details of classified product

Painted fiber cement plates with the trade name SCALAMID fixed in a visible and invisible system to the aluminum frame. Aluminum frame attached with metal screws to the wall. Between the fiber cement plates and mineral wool insulation an air gap.

2.1 Product description

The product is described below.

Ventilated facade using painted fiber cement plates with the trade name SCALAMID:
Plate thickness: from 6 mm to 12 mm.
Plate density: 1750 kg/m³.
Mineral wool thickness: minimum 100 mm.
Mineral wool density: minimum 80 kg/m³.
Fiber cement panels painted with paints with a heat of combustion below 1,4 MJ/m².

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	POZ BRUK Sp. z o.o. SP. j.	LZP01-03725/19/Z00NKP	PN-EN 13823+A1:2014
		LZP02-03725/19/Z00NKP	PN-EN ISO 1716:2010
		LZP03-01695/19/Z00NKP	PN-EN ISO 1716:2010
		LZP05-01695/19/Z00NKP	PN-EN ISO 1716:2010
		LZP07-01695/19/Z00NKP	PN-EN ISO 1716:2010
		LZP08-01695/19/Z00NKP	PN-EN ISO 1716:2010
		LZP09-01695/19/Z00NKP	PN-EN ISO 1716:2010
		LZP10-01695/19/Z00NKP	PN-EN ISO 1716:2010
		LZP11-01695/19/Z00NKP	PN-EN ISO 1716:2010
		LZP12-01695/19/Z00NKP	PN-EN ISO 1716:2010
		LZP14-01695/19/Z00NKP	PN-EN ISO 1716:2010
		LZP15-01695/19/Z00NKP	PN-EN ISO 1716:2010
		LZP20-01695/19/Z00NKP	PN-EN ISO 1716:2010
		LZP03-03725/19/Z00NKP	PN-EN ISO 1182:2010
Centrum stavebního inženýrství a.s.	Rockwool Polska Sp. z o.o.	CSI 13142-1/2	PN-EN ISO 1716:2010
		CSI 13142-2/2	PN-EN ISO 1182:2010

3.2. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter – mean (m)	Compliance with the parameter
PN-EN 13823+A1:2014	FIGRA _{0,2MJ} [W/s]	3	0,0	(-)
	FIGRA _{0,4MJ} [W/s]		0,0	(-)
	LFS < edge		(-)	Y
	THR _{600s} [MJ]		0,2	(-)
	SMOGRA [m ² /s ²]		0,0	(-)
	TSP _{600s} [m ²]		24,6	(-)
	Flaming droplets/particles		(-)	N
PN-EN ISO 1716:2010 (fiber cement plate)	PCS (MJ/kg)	3	0,49	(-)
PN-EN ISO 1716:2010 (paint)	PCS (MJ/m ²)	3	1,32	(-)
PN-EN ISO 1716:2010 (paint)	PCS (MJ/m ²)	3	0,58	(-)
PN-EN ISO 1716:2010 (paint)	PCS (MJ/m ²)	3	0,48	(-)
PN-EN ISO 1716:2010 (paint)	PCS (MJ/m ²)	3	0,79	(-)
PN-EN ISO 1716:2010 (paint)	PCS (MJ/m ²)	3	0,04	(-)
PN-EN ISO 1716:2010 (paint)	PCS (MJ/m ²)	3	0,05	(-)
PN-EN ISO 1716:2010 (paint)	PCS (MJ/m ²)	3	0,06	(-)
PN-EN ISO 1716:2010 (paint)	PCS (MJ/m ²)	3	0,01	(-)
PN-EN ISO 1716:2010 (paint)	PCS (MJ/m ²)	3	0,39	(-)
PN-EN ISO 1716:2010 (paint)	PCS (MJ/m ²)	3	0,29	(-)
PN-EN ISO 1716:2010 (paint)	PCS (MJ/m ²)	3	0,90	(-)
PN-EN ISO 1182:2010 (fiber cement plate)	ΔT (°C)	5	0,3237	(-)
	Δm (%)		8,5537	(-)
	t _f (s)		0	(-)

PN-EN ISO 1716:2010 (mineral wool)	PCS (MJ/kg)	3	0,90	(-)
PN-EN ISO 1182:2010 (mineral wool)	ΔT (°C)		26,7	(-)
	Δm (%)		4,3	(-)
	t_f (s)		0	(-)
Ventilated facade (heat of combustion for the product as a whole)	PCS (MJ/kg)	(-)	0,97	(-)
(-): 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 13501-1:2019-02.

4.2. Classification

Ventilated facade using painted fiber cement plates with the trade name SCALAMID in relation to its reaction to fire behaviour, is classified:

A1

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

Fire behaviour
A1

i.e.: A1

Reaction to fire classification: A1

4.3 Field of application

This classification is valid for the following product parameters:

- Ventilated facade using painted fiber cement plates with the trade name SCALAMID described in point 2 of this classification report.
- Ventilated façade using painted fiber cement plates with the trade name SCALAMID, used with or without air gap on substrates with a fire reaction class of at least A2-s3, d0 according to PN-EN 13501-1 or for plasterboard.
- Ventilated façade using painted fiber cement plates with the trade name SCALAMID painted with paints with a heat of combustion below $\leq 1,4 \text{ MJ/m}^2$ and $2,0 \text{ MJ/kg}$ for the product as a whole.

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 two copies. Additional signed copies can be issued by Fire Research Department of ITB on the request of the report's owner only.

"The classification assigned to the product in this report is appropriate to a declaration of performance (till 1st July of 2013 – declaration of conformity) by the manufacturer within the context of system 3 of assessment and verification of constancy of performance (till 1st July 2013 – system of conformity) and CE marking according to harmonized technical specification of the product and with Regulation (EU) no. 305/2011 of The European Parliament and of The Council of 9 March 2011 laying down harmonized conditions for the marketing construction products and repealing Council Directive 89/106/EEC.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the

classification achieved. As a consequence the manufacturer has concluded that system of assessment and verification of constancy of performance 3 is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.”

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

Signed


Łukasz Jarochowicz

Approved





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1. Introduction

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2. Details of classified product

Painted fiber cement plate with the trade name SCALAMID.

2.1 Product description

The product is described below.

Painted fiber cement plate with the trade name SCALAMID:
Plate thickness: from 6 mm to 12 mm.
Plate density: 1750 kg/m³.
Fiber cement panels painted with paints with a heat of combustion below 1,4 MJ/m².

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

3.1. Test reports

Laboratory	Customer	Test report nr	Test method
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PN-EN ISO 1182:2010 (fiber cement plate)	ΔT (°C)	5	0,3237	(-)
	Δm (%)		8,5537	(-)
	t _f (s)		0	(-)

Ventilated facade (heat of combustion for the product as a whole)	PCS (MJ/kg)	(-)	0,80	(-)
(-): not applicable, Y: Yes, N: No.				

4. Classification and the field of application

4.1. Reference of the classification

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