

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

Contract №: 02496/23/Z00NZP

Customer:	Swisspearl Group AG Eternitstrasse 3 CH-8867 Niederurnen Switzerland
Prepared by:	Fire Research Department Building Research Institute 1 Filtrowa Str. 00-611 Warszawa
European Notified Body no.	1488
Product name:	Swisspearl Patina
Classification report №:	02496.1/23/Z00NZP-ENG
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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 the fibre-cement board with the trade name "Swisspearl Patina " and the code "Rec 1" in accordance with procedures given in PN-EN 13501-1:2019-02 (which is in relations/introduces EN 13501-1:2018).

2. Details of the classified product

2.1. General

The fibre-cement board with the trade name "Swisspearl Patina " and the code "Rec 1" is intended for general use in construction (EN 12467:2012+A2:2018 Fibre-cement flat sheets – Product specification and test methods).

2.2 Product description

The product is described below.

Core density: 1570 kg/m³

With a nominal thickness of 8 mm or greater.

The fibre-cement board with the trade name "Swisspearl Patina " and the code "Rec 1" is an autoclaved fibre cement flat sheet, produced with white or grey cement, the flat sheets are hydrophobized on both sides the baseboards are pigmented which constitutes the colours.

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

3.1. Test reports

Laboratory	Customer	Test report nr	Test method
Fire Testing Laboratory ITB	Swisspearl Group AG	LZP01-02496/23/Z00NZP-ENG	PN-EN ISO 1716:2010
		LZP03-02496/23/Z00NZP-ENG	
		LZP04-02496/23/Z00NZP-ENG	PN-EN 13823+A1:2022-12

3.2. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter – mean (m)	Compliance with the parameter
PN-EN ISO 1716:2010	PCS [MJ/kg]	3	1.41	(–)
	PCS [MJ/m ²]		1.74	(–)
PN-EN ISO 1716:2010 plate fibre-cement	PCS [MJ/kg]	(–)	1.18	(–)
EN 13823+A1:2014	FIGRA _{0,2MJ} [W/s]	3	4.8	(–)
	FIGRA _{0,4MJ} [W/s]		4.8	(–)
	LFS < edge		(–)	T
	THR _{600s} [MJ]		0.5	(–)
	SMOGR _A [m ² /s ²]		1.5	(–)
	TSP _{600s} [m ²]		4.2	(–)
	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 13501-1:2019-02.

4.2. Classification

The fibre-cement board with the trade name "Swisspearl Patina " and the code "Rec 1", in relation to its reaction to fire behaviour is classified:

A2

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	
A2	-	s	1	,	d	0

i.e.: **A2-s1,d0**

Reaction to fire classification: A2-s1,d0

4.3 Field of application

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

- The fibre-cement board with the trade name "Swisspearl Patina " and the code "Rec 1" described in point 2 of this classification.
 - With horizontal and vertical joints.
 - Fixed to wooden frame as tested or to metallic profiles.
 - With a joint opening of 8 mm or smaller.
 - With EPDM jointing strip for protecting of wooden subframe.
- Swisspearl Patina range installed substrates with an air gap from the non-combustible substrates with a reaction to fire class at least A2-s3,d0.
- Fixed with mechanical devices such as metal (excluding aluminium) nails, screws or rivets.
- Without thermal insulation in the cavity or with other types of Insulation materials of class A2-s1,d0 class according to EN 13501- 1.
- Insulation materials as long as a ventilated air gap of 40 ± 1 mm directly behind the sheets is present.
- Valid for all colours of the same type, but with different dimensions of length and width. With a different surface textur.

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.

“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/EEG.

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 report has been issued in electronic form, with qualified electronic signatures of persons responsible. 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

Approved

