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Instytut Techniki Budowlanej [Construction Technology Institute]

Group of Testing Laboratories

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TEST REPORT LZP01-00848/24/ZOONZP

Contractor:

Green For Fun

Os. Pod Lipami 104/22

61-640 Poznań

Product name:

Plant façade module EkoFasady

(provided by the Contractor)

Date of issue:

28 March 2024

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Fire Testing Laboratory (LZP)

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1. Information on testing

Product manufacturer:

Green For Fun

Os. Pod Lipami 104/22

61-640 Poznań

Date of start of testing:

11 March 2024

Date of completion of testing:

11 March 2024

Place where tests were performed:

In LZP laboratory located at: ul. Przemysłowa 2, 26-670 Pionki

2. Product

Plant façade module EkoFasady





2.1 Information provided by the Contractor

Product:

The dimensions of a single module are: 250 mm x 500 mm.

Module made of austenitic galvanized sheet metal with a thickness of 0,5 mm.

Rock wool infill class A1 according to PN-EN 13501-1.

The plant is Pachysandra Terminalis in planting density of 64 pieces /m2.

[a photograph]

Declared scope of use: Green wall used in construction industry

3. Subject of the report, sample

3.1 Information provided by the Contractor

Sample origin:

Object installed on test bench

3.2 Information obtained by visual inspection in the laboratory

Acceptance of test object in the laboratory:

Date: 26 February 2024

Acceptance report: LZP-00848/24/Z00NZP

Condition of test subject:

Samples delivered in condition and quantity suitable for testing

Description of the test subject:

The dimensions of a single module are: 250 mm x 500 mm.

Metal sheet thickness from 0.5 mm.

Storage of the test subject:

The samples were conditioned from 26 February 2024 to 11 March 2024 at temperature from 10 to 30 °C (in the testing room).

4. Test results

4.1 Testing method

PN-B-02867:2013-06

The implementation of the test, the environmental conditions and the accuracy of the measuring equipment used are in accordance with the requirements of the above-mentioned standard.

Samples were tested with an external fire source.

Table 1. Test conditions

Volume / unit	Sample 1	Sample 2	Sample 3
Air temperature [°C]	20,1	19,7	19,3
Air velocity [m/s]	2,2	2,2	2,2





4.2 Results

Table 2 Test results

Sample number	Measurements		Observations		
	Temperature on lines L1 and L2 during the test [°C]		Combustion on lines L1 and L2 during the observation period (+/-)		Burning drops and burning solid waste (+/-)
	L1	L2	L1	L2	
1	106,61	67,3	-	-	-
2	113,21	110,32	-	-	-
3	136,55	68,38	-	-	-

The expanded uncertainty associated with the temperature measurement (related to the accuracy of the equipment used), with a probability of expansion of $k=2$, which provides a confidence level of 95%, is $UT=0,74^{\circ}\text{C}$.

The result, together with its uncertainty, applies only to the samples tested. The value of the uncertainty cannot be directly attributed to the property level of the product, as the laboratory has no knowledge of the variability of its population, only of the sample under test.

5. Evaluation of compliance of test results with criteria

In accordance with the provisions of the PN-B-02867:2013-06 standard, the evaluation of the conformity of the results with the criteria can be found in the classification report no. 00848/24/Z00NZP.

The parties agreed that the principle of simple acceptance is applied when assessing the conformity of the results with the criteria according to the PN-B-02867:2013-06 standard. This means that the acceptance limits are equal to the tolerance limits presented in the aforementioned document.

The assessment of the conformity of the test result with the criteria refers to the test sample. Factors influencing the risk associated with the conformity assessment carried out are the following:

- measurement uncertainty as presented in section 4 to this report.

6. Reservations

The Testing Laboratory declares that the test results refer only to the received sample. The test results refer to the behaviour of the product sample under the specified test conditions; they cannot be the sole criterion for assessing the potential fire hazard of the product used.

Without the written permission of the Testing Laboratory, the report may not be reproduced except in its entirety.

The test report is not a substitute for the documents required for the marketing and release of construction products.

This report has been issued in electronic form, with qualified electronic signatures of the responsible persons. A printout of this report is not an original document.







[vertically]: Temperature [°C]

Graph 2 Graph of the temperature course during testing of sample No. 2

[a photograph]

Photograph 5 Sample 3 before the test

[a photograph]

Photograph 6 Sample 3 after the test

Temperature during the test (sample 3)

Time [s]

[vertically]: Temperature [°C]

Graph 3 Graph of the temperature course during testing of sample No. 3

[a graph]

I hereby certify that this document is a true translation of the document consisting of eight pages and prepared in the Polish language. The document was submitted for translation via e-mail.

Poznań, 02 December 2024

Register No. 1110/2024

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