Instytut Techniki Budowlanej
Research and development works | Accredited Group of Laboratories |
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CLASSIFICATION REPORT
REACTION TO FIRE
according to PN-EN 13501-1:2019-02

Contract №: 02616/20/Z00NZP

Customer:	**ALHAR Sp. z o.o. Sp. K. ul. Kochanowicka 89a, Kochcice 42-713 Kochanowice**
Prepared by:	**Fire Research Department Building Research Institute 1 Filtrowa Str. 00-611 Warszawa**
Product name:	**ALHAR WALL insulation system**
Classification report №:	**02616.2/20/Z00NZP-ENG** (English version of classification 02616.2/20/Z00NZP)
Issue number: 1	**Copy № 1**
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1. Introduction

This classification report defines the classification assigned to ALHAR WALL insulation system in accordance with procedures given in PN-EN 13501-1:2019-02.

2. Details of classified product

2.1 General

ALHAR WALL insulation system.

2.2 Product description

The product is described below.

ALHAR WALL insulation system
Layer arrangement from the side of the base:
- adhesive mortar with the trade name ALHAR WALL / ISO-KLINK-PUR for polystyrene, consumption 5 kg/m^2
- polystyrene with the trade name ALHAR WALL, thickness from 5 cm to 22 cm and density from 18 to 24 kg/m^3 ± 15 %
- sticking bridge with the trade name ALHAR, consumption 0,25 kg/m^2
- fixing pins with a consumption of about 10 pcs/m^2
- adhesive for gluing clinker tiles with the trade name ALHAR WALL / ISO-KLINK-PUR consumption 4,5 kg/m^2
- clinker tile with dimensions 24 cm x 7,1 cm or 24 cm x 5,2 cm or 24 cm x 6,5 cm or 21,5 cm x 6,5 cm or 29 cm x 5,2 cm or 21 cm x 5,0 cm or 36,5 cm x 5,2 cm
- fugue with the trade name ALHAR WALL / ISO-KLINK-PUR consumption 5 kg/m^2

2. 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	ALHAR Sp. z o.o. Sp. K.	LZP01-01523/20/Z00NZP	PN-EN ISO 11925-2:2010
		LZP02-01523/20/Z00NZP	PN-EN 13823+A1:2014

3.2. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter – mean (m)	Compliance with the parameter
PN-EN ISO 11925-2: 2010 30 s exposure Surface and edge exposure	Flame propagation F_s ≤150 mm	9	(–)	Y
	Flaming droplets/particles		(–)	N
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]		0,0	(–)
	SMOGRA [m^2/s^2]		0,0	(–)
	TSP_{600s} [m^2]		14,1	(–)
	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

ALHAR WALL insulation system 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 construction products excluding floorings and linear pipe thermal insulation products is:

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

i.e.: B-s1,d0

Reaction to fire classification: B-s1,d0

This classification report is valid for final applications in accordance with the technical conditions to be met by buildings and their location, and as for a "non-flammable, non-drip" product according to the Regulation of the Minister of Infrastructure of April 12, 2002 (Journal of Laws No. 75 of 15 June 2002, item 690 with later changes) and as for the product that does not spreading fire inside buildings. At the same time, the product is assessed as not falling off under the influence of fire and as not spreading fire inside buildings.

4.3 Field of application

This classification is valid for the following product parameters:
- ALHAR WALL insulation system described in point 2 of this classification report.
- ALHAR WALL insulation system attached directly to substrates with a fire reaction class of at least D-s2,d0 according to PN-EN 13501-1 or to wooden or wood-based elements.

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.

This classification report has been issued in 3 copies. 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

Łukasz Jarochowicz

Approved

HEAD
of Fire Research Department
Bartłomiej Papis, PhD Eng.