CLASSIFICATION OF REACTION TO FIRE
IN ACCORDANCE WITH EN 13501-1:2018

Sponsor:	Stofix Oy Hyttipojankuja 2 FI-02780, Espoo Finland
Prepared by:	Eurofins Expert Services Oy Kivimiehentie 4, FI-02150 Espoo, Finland
Notified Body No:	0809
Product:	Stofix ventilated brick façade system
Classification report No:	EUFI29-23002438-T2
Date of issue:	22 August 2023

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T001 (EN ISO/IEC 17025)

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1 Introduction

This classification report defines the classification assigned to the product **Stofix ventilated brick façade system** in accordance with the procedures given in EN 13501-1:2018.

2 Details of classified product

2.1 General

The product **Stofix ventilated brick façade system** is defined as ventilated brick façade system product.

2.2 Product description

The product **Stofix ventilated brick façade system** described below.

Manufacturer: Stofix Oy, Stofix Poland Sp. Z o.o.

Construction of the system:

- Brick Slip Panel with galvanised/ Magnelis/stainless steel AK25/ AK15 Horizontal Installation Rail
- J60 Verical Z-Rail
- SK Wall Brackets
- JK Extension Brackets

Construction of Brick Slip Panel:

- kiln-fired clay brick slips manufactured or cut to 19 mm…40 mm thick & mechanically fixed to a galvanised/ Magnelis/ stainless steel backing plate via polymer modified mortar (grout)

Standard size of the panels:

- 1200 mm (width) x 600 mm (height) and 1125 mm (width) x 600 mm (height), different sizes available

Standard size of the bricks:

- 285 mm (width) x 85 mm (height) x 20 mm (thickness) and 215 mm (width) x 65 mm (height) x 20 mm (thickness), different sizes available

Standard width of the joints:

- 15 mm and 10 mm, different widths available

Composition of the joints:

- polymer modified cement based grout with micro stone surface

Joints between the bricks:

- Stofix factory bonding grout, organic content < 6,0 w-%

Joints between the panels:

- Stofix site bonding grout, organic content < 2,8 w-%

Ventilation cavity behind the façade cladding: ≥ 15 mm

Glue: a) Soudal Soudaseal 222 mastic

- Amount: 100-140 g/m^2
- Type: 1-part, Based on MS polymer, chemically neutral, permanently elastic.

OR

b) Illbruck SP350

- Amount: 100-140 g/m^2
- Type: SP technology glue mass

Metal bracket: punched hooks in the backing sheet

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3 Test reports and test results in support of classification

3.1 Test reports

Name of laboratory	Name of sponsor	Test report	Test method and date
Eurofins Expert Services Oy	Stofix Oy	EUFI29-22002953-T1	EN 13823 7 October 2022
Eurofins Expert Services Oy	Stofix Oy	EUFI29-22002953-T2	EN ISO 1716 7 October 2022
Eurofins Expert Services Oy	Stofix Oy	EUFI29-23002438-T1	EN 13823 22 August 2023

3.2 Test results

Test method	Parameter	Number of tests	Continuous parameter mean (m)	Compliance parameters
EN 13823	$FIGRA_{0,2\ MJ}$ (W/s)	$3^{(1} + 1^{(2} + 3^{(11}$	$2,9^{1)} + 3,2^{2)} + 0^{10)}$	Compliant
	$FIGRA_{0,4\ MJ}$ (W/s)	$3^{(1} + 1^{(2} + 3^{(11}$	$2,9^{1)} + 3,2^{2)} + 0^{10)}$	Compliant
	THR_{600s} (MJ)	$3^{(1} + 1^{(2} + 3^{(11}$	$0,4^{1)} + 0^{2)} + 0,5^{10)}$	Compliant
	LFS edge	$3^{(1} + 1^{(2} + 3^{(11}$	-	Compliant
	SMOGRA (m^2/s^2)	$3^{(1} + 1^{(2} + 3^{(11}$	$0^{1)} + 0^{2)} + 0^{10)}$	Compliant
	TSP_{600s} (m^2)	$3^{(1} + 1^{(2} + 3^{(11}$	$4,1^{1)} + 0,5^{2)} + 7,2^{10)}$	Compliant
	Flaming droplets / particles	$3^{(1} + 1^{(2} + 3^{(11}$	-	Compliant
EN ISO 1716	PCS (MJ/kg)	3	$2,0^{3)} + 0,9^{4)} + 0,3^{5)} + 1,5^{6)}$ $1,5^{7)}$	Compliant
	PCS (MJ/m2)		$1,9^{8)} + 2,0^{9)}$	Compliant

1) Stofix ventilated brick facade system with Soudal Soudaseal 222 polymer, tested on 9 mm thick cement particle board with density of 1250 kg/m^3.
2) Stofix ventilated brick facade system with Illbruck SP350 polymer, tested on 9 mm thick cement particle board with density of 1250 kg/m^3.
3) Brick
4) Stofix factory bonding grout
5) Stofix site bonding grout
6) Whole product (with Soudal Soudaseal 222 polymer)
7) Whole product (with Illbruck SP350 polymer)
8) Soudal Soudaseal 222 polymer
9) Illbruck SP350 polymer
10) Reverse side of the product

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4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

4.2 Classification

The product **Stofix ventilated brick façade system** in relation to reaction to fire behaviour are 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 is:

Fire behaviour		Smoke production			Flaming droplets	
A2	-	s	1	,	d	0

i.e.: A2-s1, d0

4.3 Field of application

This classification is valid for the faced side of the product with the following product parameters:

- thickness of the product ≥ 19 mm
- with Soudal Soudaseal 222 polymer, ≤ 140 g/m^2 or Illbruck SP350 polymer, ≤ 140 g/m^2
- Stofix factory bonding grout, organic content < 6,0 w-%
- Stofix site bonding grout, organic content < 2,8 w-%

This classification is valid for the reverse side of the product with the following product parameters:

- thickness of the product ≥ 19 mm
- with Soudal Soudaseal 222 polymer, ≤ 140 g/m^2
- Stofix factory bonding grout, organic content < 6,0 w-%
- Stofix site bonding grout, organic content < 2,8 w-%

This classification is valid for the following end use application:

- the substrate is of class A1 or A2 with a density of at least 937,5 kg/m^3
- with ventilation cavity behind the facade cladding ≥ 15 mm
- with or without vertical and horizontal joints
- with panels installed horizontally
- with mechanical fixing

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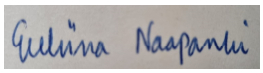
5 Limitations

This classification report does not represent type approval or certification of the products.

Espoo, 22 August 2023

Taru Huokuniemi
Senior Expert



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