

**CLASSIFICATION OF REACTION TO FIRE
IN ACCORDANCE WITH EN 13501-1:2007**

Sponsor: Finnfoam Oy
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Product: Finnfoam F-29+

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



1 Introduction

This classification report defines the classification assigned to Finnfoam F-29+ in accordance with the procedures given in EN 13501-1:2007.

2 Details of classified product

2.1 General

The product Finnfoam F-29+ is defined as external thermal insulation composite system with rendering.

2.2 Product description

The product Finnfoam F-29+ is described below:

Manufacturer: Finnfoam Oy

Product description: external thermal insulation composite system with rendering.

Insulation board: XPS (Finnfoam F-29), 38 kg/m³, 20...400 mm

Base plastering: one component cementitious polymer modified mortar,
organic content 2,4 %, 0,5...1,5 mm, about 2 kg/dm³

Reinforcement: glass fibre net, 0,5 mm, about 150 g/m²

Finishing coat: weber.vetonit Silco Paint, silicone resin based water soluble paint,
0,1...0,3 mm, about 1,5 kg/dm³

Decorative coat: weber.vetonit Silco Coat, silicone resin based water soluble coating,
1,0...2,0 mm

3 Test report and test results in support of classification

3.1 Test report

Name of laboratory	Name of sponsor	Test report	Test methods
VTT Expert Services Ltd	Finnfoam Oy	VTT-S-3383-12	EN ISO 11925-2
VTT Expert Services Ltd	Finnfoam Oy	VTT-S-3382-12	EN 13823



The test results relate only to the sample tested.

3.2 Test results

Test method	Parameter	Number of tests	Continuous parameter mean	Compliance parameters
EN ISO 11925-2 surface flame attack 30 s exposure	Fs ≤ 150 mm	6	-	Y
	flaming droplets/particles	6	-	Y
EN 13823	FIGRA _{0,2 MJ} (W/s)	1 ¹⁾	75,3	-
	FIGRA _{0,4 MJ} (W/s)	1 ¹⁾	68,5	-
	THR _{600s} (MJ)	1 ¹⁾	2,0	-
	LFS edge	1 ¹⁾	-	Y
	SMOGRA (m ² /s ²)	1 ¹⁾	0	-
	TSP _{600s} (m ²)	1 ¹⁾	32,6	-
	Flaming droplets / particles	1 ¹⁾	-	Y
EN 13823	FIGRA _{0,2 MJ} (W/s)	3 ²⁾	81	-
	FIGRA _{0,4 MJ} (W/s)	3 ²⁾	79	-
	THR _{600s} (MJ)	3 ²⁾	2,0	-
	LFS edge	3 ²⁾	-	Y
	SMOGRA (m ² /s ²)	3 ²⁾	0	-
	TSP _{600s} (m ²)	3 ²⁾	31	-
	Flaming droplets / particles	3 ²⁾	-	Y

1) Tested on fibre cement board (1800 ± 200 kg/m³, 8 ± 2 mm) fixed with weber.vetonit RF renovation fix (1,0...3,0 mm) and metallic fasteners

2) Tested on plywood board (450 ± 50 kg/m³, 9 ± 1 mm) fixed mechanically with metallic fasteners



The test results relate only to the sample tested.

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2007.

4.2 Classification

The product Finnfoam F-29+ in relation to 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 is:

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

i.e.: B-s1, d0

4.3 Field of application

This classification is valid for the following product parameters:

- with XPS (Finnfoam F-29) insulation board with nominal density of 38 kg/m³ and thickness of 20...400 mm
- organic content of base plastering ≤ 2,4 % and thickness ≥ 1,5 mm
- with weber.vetonit Silco Paint finishing coat, thickness ≥ 0,1 mm
- with weber.vetonit Silco Coat decorative coat, thickness ≥ 1,0 mm
- with glass fibre net reinforcement, thickness 0,5 mm and area weight 150 g/m²



The test results relate only to the sample tested.

This classification is valid for the following end use conditions:

- the substrate is wood based or classes A1 or A2-s1,d0 and a density of at least 338 kg/m³
- without a void
- with mechanical fixings to wood based substrate
- with mechanical fixings and renovation fix weber.ve-tonit RF to substrate of class A1 or A2- s1,d0

5 Limitations

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

Espoo, 22 May 2012



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Manager, Services



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The test results relate only to the sample tested.