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Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product called "Politerm Blu" in accordance with the procedure given in EN 13501-1:2007.

2 Details of classified product

2.1 General

The product Politerm Blu is defined as a light weight concrete product.

2.2 Product description

According to information provided by the client, the product has the following composition: Cellular concrete called "Politerm Blu" consisting of 95.2 % cement and 4.8 % expanded polystyrene (by weight). Nominal thickness 50 mm and nominal dry density 262.5 kg/m³.

3 Test reports & test results in support of classification

3.1 Test reports

This classification is based on the test reports listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
SP	Edilteco SPA	P805640B	EN 13823
SP	Edilteco SPA	P805640-01A	EN ISO 1716

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3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN 13823	<i>FIGRA</i> _{0,2MJ} (W/s)	3	0	Compliant
	<i>LFS</i> < edge		(-)	Compliant
	<i>THR</i> _{600s} (MJ)		0.5	Compliant
	<i>SMOGRA</i> , (m ² /s ²)		0	Compliant
	<i>TSP</i> _{600s} (m ²)		16	Compliant
	Flaming droplets/particles		(-)	No flaming droplets/particles
EN ISO 1716	<i>PCS</i> (MJ/kg)* (4)	6	1.9	Compliant

(-) : not applicable
 * the product is homogeneous
 (4): the parameter for the product as a whole

4 Classification and field of application

4.1 Reference and direct field of application

This classification has been carried out in accordance with clause 11 and 15 of EN 13501-1:2007.

4.2 Classification

The product called “Politerm Blu” 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 particles/droplets is:
d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation product is:

Fire Behaviour		Smoke Production				Flaming Droplets	
A2	-	s	1	,	d	0	

Reaction to fire classification: *A2-s1,d0*

4.3 Field of application:

This classification is valid for the following product parameters:

Composition: 95.2 % cement and 4.8 % expanded polystyrene (by weight).

Nominal thickness: 50 mm

This classification is valid for the following end use conditions:

Substrates

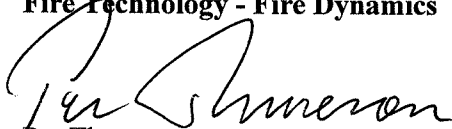
- Wood based substrates at least 12 mm thick and any end use substrate of Euroclasses A1 or A2 at least 6 mm thick, having a density $\geq 630 \text{ kg/m}^3$.

The sample was delivered by the client. SP Fire Technology was not involved in the sampling procedure.

5 Limitations

This classification document does not represent type approval or certification of the product.

SP Technical Research Institute of Sweden
Fire Technology - Fire Dynamics



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