Additional reaction to fire classification report No. 19984E

Owner of the additional classification report

PITTSBURGH CORNING EUROPE NV
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Introduction

This additional classification report defines the classification assigned to the product **'FOAMGLAS® slabs pre-applied coated with INVATHERM™'** in accordance with the procedures given in the standard EN 13501-1:2018: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

This additional classification report consists of 6 pages and may only be used or reproduced in its entirety

This report is additional to that issued as No. 19984C dated 29/01/2020. This report is drafted in accordance with the regulations of EGOLF Agreement EGA 08rev2:2013 "Application note: clause 5.10 / 4-2 – Amendment of reports: client changing product/company names (ii) for commercial reasons – Issue of additional reports". The original report remains valid and is not replaced by this report. The product has not been retested and this report does not involve technical changes or technical reviews of the original report. The original and the new name of the product and of the company commercially responsible for the product, as well as the declarations concerning this additional report, are documented by the laboratory and maintained in the laboratory records.

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1. DETAILS OF CLASSIFIED PRODUCT

a) General

The product ***FOAMGLAS® slabs pre-applied coated with INVATHERM™*** is defined as 'cellular glass slabs with inorganic coating'.
Its classification is valid for the following end use application(s):
Used as thermal insulation for buildings (according to EN 13167) and thermal insulation for building equipment and industrial installations (according to EN 14305).

b) Product description

This description is based on information given by the sponsor.

	Nominal values
FOAMGLAS® slabs pre-applied coated with INVATHERM™	
Type of product	FOAMGLAS® slabs with the topside coated with an INVATHERM coating
Manufacturer/supplier	Pittsburgh Corning Europe SA/NV
Components	
1. FOAMGLAS® INVATHERM™	
Type of product	Inorganic coating, composed by silicates, alu-phoshate & glass scrap
Manufacturer/supplier	Pittsburgh Corning Europe SA/NV
Application method	Applied onto the cellular glass in an online production method using the waterfall method with a curing process afterwards
Applied thickness (mm)	1,5
Density of the dried mixture (coating layer) (kg/m³)	1600
Use of fire retardants	No
Colour	Light grey
2. Core material: FOAMGLAS® slabs (*)	
Type of product	Unfaced cellular glass slabs
Manufacturer	Pittsburgh Corning Europe SA/NV
Thickness (mm)	Valid for all thicknesses
Density (kg/m³)	
Minimum	100 ± 10 % (FOAMGLAS® W+F)
Maximum	200 ± 15 % (FOAMGLAS® HLB 2400)
Use of fire retardants	No
Colour	Black

(*) Including the following cellular glass slabs: FOAMGLAS® W+F, FOAMGLAS® T3, FOAMGLAS® T3+, FOAMGLAS® T4+, FOAMGLAS® ONE, FOAMGLAS® S3, FOAMGLAS® F, FOAMGLAS® TAPERED, FOAMGLAS® PT and FOAMGLAS® HLB.

2. TEST REPORTS AND EXAP REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

a) Test reports (and EXAP reports)

Name of the laboratory	Name of the sponsor	Test report ref. No.	Test method and date
WFRGENT nv Ghent, Belgium	PITTSBURGH CORNING EUROPE NV	19984B	EN ISO 1182:2010
WFRGENT nv Ghent, Belgium	PITTSBURGH CORNING EUROPE NV	19984A 19329B	EN ISO 1716:2018 (*) & EN ISO 1716:2010
WFRGENT nv Ghent, Belgium	PITTSBURGH CORNING EUROPE NV	16658A 16658B 17465A	EN 13820 (September 2003)
WFRGENT nv Ghent, Belgium	PITTSBURGH CORNING EUROPE	16658D	EXAP according to CEN/TS 15117 (August 2005)

(*) As the test procedure for EN ISO 1716 remained identical for versions 2010 & 2018 and no substantial technical changes were noticed in the most recent version 2018, results obtained with the 2018 version can also be considered valid for classification purposes (where only the 2010 version is mentioned).

b) Test results

Unfaced cellular glass slabs

Test method	Parameter	Number of tests	Results		Criteria for Class A1	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN 13820 (1)	M_{oc}	5	0,09 %	(-)	≤ 1,0 %	(-)
EN 13820 (2)	M_{oc}	5	0,05%	(-)	≤ 1,0 %	(-)
(1) Based on the results obtained in test report No. 16658B – FOAMGLAS® HLB 2400 (200 kg/m³). (2) Based on the results obtained in test report No. 17465A – FOAMGLAS® T3+ (100 kg/m³).						

(-) Not applicable.

	M_{OC} (%)
FOAMGLAS® W+F (100 kg/m³)	0,05
FOAMGLAS® HLB 2400 (200 kg/m³)	0,11

Based on the results obtained in test report No. 16658A: Only one single test on each product has been carried out instead of the standard five replicates.

FOAMGLAS® slabs pre-applied coated with INVATHERM

Test method	Parameter	Number of tests	Results		Criteria for Class A1	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 1182 (1) (*)	ΔT (°C)	5	2	(-)	≤ 30	(-)
	t_f (s)		0	(-)	0	(-)
	Δm (%)		5	(-)	≤ 50	(-)
(1) Based on the results obtained in test report No. 19484B – FOAMGLAS® INVATHERM. *(*) Since the FOAMGLAS® slabs have already been classified as Euro class A1 by means of determining the organic content (see test results on page 3), they don't have to be tested according to EN ISO 1182.*						
EN ISO 1716	PCS (MJ/kg) (2)	3	0,3	(-)	≤ 2,0	(-)
	PCS (MJ/kg) (3)	3	-0,3 (**)	(-)	≤ 2,0	(-)
	PCS (MJ/kg) (4)	(-)	0,1 (**)	(-)	≤ 2,0	(-)
(2) For homogeneous products and substantial components of non-homogeneous products – FOAMGLAS® INVATHERM™ coating *Based on the results obtained in test report No. 19484A.* *(3) For homogeneous products and substantial components of non-homogeneous products – FOAMGLAS® T3+* *Based on the results obtained in test report No. 19329B.* *(4) For the product as a whole - Based on the following calculations:* *FOAMGLAS® INVATHERM™ coating: 0,3 MJ/kg x 2,4 kg/m² = 0,72 MJ/m²* *FOAMGLAS® T3+ (100 mm; 100 kg/m³): 0 MJ/kg (**) x 10 kg/m² = 0 MJ/m²* ***PCS for the product as a whole = 0,72 MJ/m² (**)*** ***PCS for the product as a whole (MJ/kg) = 0,72 MJ/m² / 12,4 kg/m² = 0,058 MJ/kg*** (**) In accordance with §9.4.1 of EN ISO 1716, the negative Q_{PCS} value of the FOAMGLAS® T3+ slab is set to zero for the calculation of the Q_{PCS} value of the product as a whole.						

(-) Not applicable.

3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference of classification

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

The related harmonized product standards for the FOAMGLAS® slabs are EN 13167:2012+A1:2015 & EN 14305:2015.

b) Classification

The product ***FOAMGLAS® slabs pre-applied coated with INVATHERM™*** in relation to its reaction to fire behavior is classified as:

Fire behavior
A1

c) Field of application

This classification for the product as described in §1b, is valid for the following end use applications:

- Product as such

This classification is valid for the following product parameters:

FOAMGLAS® INVATHERM™ coating

- Nominal thickness: 1,5 mm
- Density of the dried mixture (coating-layer): 1600 kg/m³
- Colour: Light grey
- No use of fire retardants

FOAMGLAS® slabs (cellular glass)

- Nominal thickness: Valid for all thicknesses
- Nominal density: All densities between or equal to 100 ± 10 kg/m³ and 200 ± 30 kg/m³
- Colour: Black
- No use of fire retardants

4. RESTRICTIONS

At the time the standard EN 13501-1:2018 was published, no decision was made concerning the duration of validity of a classification report.

Provisions of Regulation (EU) 305/2011, commonly known as the Construction Products Regulation (CPR), prevail over any conflicting provisions in the harmonized standards and technical specifications.

5. WARNING

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

The classification assigned to the product in this report is appropriate to a Declaration of Performance (DoP) by the manufacturer within the context of System 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonized conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that System 3 attestation is appropriate.
The test laboratory has played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide evidence for the traceability of the samples tested.

PREPARED BY	APPROVED BY
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