Institut für Brandschutztechnik
und Sicherheitsforschung

CLASSIFICATION OF REACTION TO FIRE

in accordance with EN 13501-1[1)]

Product name:
„Foamalite®re“

Classification Report no.: 324041602-B-en
Date: 13.11.2024
Technician: Jürgen STURM / AM
DW: 813

CUSTOMER:	**Foamalite LTD** Cloone, Co Cavan 19340 Loch Gowna IRELAND
PREPARED BY:	IBS - Institut für Brandschutztechnik und Sicherheitsforschung GmbH Petzoldstraße 45, 4020 Linz
NOTIFIED BODY NO.:	1322

This classification report consists of **6** pages and may not be used in extracts or re-produced in extracts.

1) EN 13501-1:2018

1. Introduction

This classification report defines the classification assigned to the construction product **„Foamalite®re“** in accordance with the procedure given in 13501-1:2018.

2. Details of the classified product

2.1. General

The construction product **„Foamalite®re“** is of the product type “wall and ceiling cladding”.

Its classification is valid for the area of application listed under point 4.

2.2. Product Description

The construction product **„Foamalite®re“** is specified below and in the reports referred to under item 3.1. referenced to demonstrate the classification.

3. Reports and results in support of this classification

3.1. Reports

Name of laboratory[1]	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date
IBS	Foamalite LTD	324041602-3-en Date of issue 13.11.2024	EN 13823:2020
IBS	Foamalite LTD	324041602-4-en Date of issue 13.11.2024	EN ISO 11925-2:2020

[1] **Name / address and notification number / status of testing laboratory:**
- IBS: IBS - Institut für Brandschutztechnik und Sicherheitsforschung Gesellschaft m.b.H., Petzoldstraße 45, A-4020 Linz; Notified Body No.: 1322

3.2. Results

Test method and test report no.	Parameter	Number of tests	Results	
			continuous parameter mean (m)	compliance with parameters / Classification criteria (as defined in EN 13501-1)
EN 13823 324041602-3-en	$FIGRA_{0,2}$ [W/s]	3	**57**	A2: ≤ 120 W/s B: ≤ 120 W/s
	$FIGRA_{0,4}$ [W/s]		**56**	C: ≤ 250 W/s D: ≤ 750 W/s
	THR_{600s} [MJ]		**1,0**	A2: ≤ 7,5 MJ B: ≤ 7,5 MJ C: ≤ 15 MJ
	SMOGRA [m^2/s^2]		**58**	s1: ≤ 30 m²/s² s2: ≤ 180 m²/s²
	TSP_{600s} [m^2]		**85**	s1: ≤ 50 m² s2: ≤ 200 m²
	Flaming droplets / particles		no / d0	Compliant d0: No flaming droplets / particles
	LFS		Compliant	Compliant < edge of specimen
EN ISO 11925-2 324041602-4-en	Edge flame exposure F_s ≤ 150mm	6	**(Max. Height)** 70 mm	consistent
	Flaming droplets *inflammation of the filter paper*		**No**	consistent
	Surface flame exposure F_s ≤ 150mm	6	**(Max. Height)** 55 mm	consistent
	Flaming droplets *inflammation of the filter paper*		**No**	consistent

4. Classification and field of application

4.1. Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018 and the following points 6, 7, 8, 11.6, 11.9, 11.10 and 14.1.

4.2. Classification

The construction product **„Foamalite®re“** in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s2

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 / particles	
B	-	s	2	,	d	0

i.e.: **B – s2, d0**

Reaction to fire classification: B – s2, d0

4.3. Field of application

This classification is valid for the following product parameters:

- Product structure as tested (see test reports according to 3.1)
- Valid for white colour
- Valid for thicknesses of 3 mm
- Valid for Density from 450 kg/m³ up to 600 kg/m³

This classification is valid for the following end use applications:

- The construction product may only be used on substrates corresponding to euro classes A1 or A2-s1, d0, as well as calcium silicate boards, with a minimum thickness of 11 mm and a minimum bulk density of 870 kg/m³.
- Assembly may only be carried out mechanically using metal fasteners
- With or without open edges
- With or without an open air gap
- Freestanding / Free hanging
- As wall and ceiling cladding
- Not horizontal as flooring

5. Limitations

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

Used in combination with other building materials, with other air gaps/voids, types of fixation joints, thickness or density ranges, coatings than specified in the referencing test reports, the reaction to fire may be influenced negatively, so that the classification assigned in section 4.2 will no longer be valid.

The fire performance with other parameters than those specified above must be tested/ verified separately.

6. Validity

The specifications for and evaluation of fire tests are subject to continuous development. This may result in changes in related legislation.

For these reasons, it is recommended that the user verifies the factual accuracy of test reports and classification reports that are older than **5 years**.

The test laboratory having issued these reports may, at the owner's request, carry out a review of the associated test methods or the classification basis to ensure compliance with current regulations and - if necessary - re-issue a report.

If there is no continuous verification of the reaction to fire by the manufacturer, this classification report will lose its validity in case of any change in the production process, the production environment, the raw materials or the suppliers of the components.

In general, the validity shall expire if the customer undertakes improper technical modifications to the construction product which exceed or fall below the composition values underlying this Classification Report (refer to the test reports).

Furthermore, the validity shall also expire following restrictive provisions of forthcoming European product standards.

IBS – INSTITUT FÜR BRANDSCHUTZTECHNIK UND SICHERHEITSFORSCHUNG GESELLSCHAFT M.B.H.
Akkreditierte Prüf-, Inspektions- und Zertifizierungsstelle

SIGNATURINFORMATION	**Unterzeichner**	Jürgen Sturm
	Datum/Zeit-UTC	2024-11-15T07:09:34+01:00
	Prüfung	Siehe http://www.signaturpruefung.gv.at
Hinweis	Diese Unterschrift ist gemäß EU Verordnung Nr. 910/2014 (eIDAS) der handschriftlichen Unterschrift grundsätzlich rechtlich gleichgestellt.	

Jürgen STURM
Technician

SIGNATURINFORMATION	**Unterzeichner**	Josef Stockinger
	Datum/Zeit-UTC	2024-11-15T07:44:37+01:00
	Prüfung	Siehe http://www.signaturpruefung.gv.at
Hinweis	Diese Unterschrift ist gemäß EU Verordnung Nr. 910/2014 (eIDAS) der handschriftlichen Unterschrift grundsätzlich rechtlich gleichgestellt.	

Ing. Josef STOCKINGER
Monitoring