

Classification of Reaction to Fire in accordance with DIN EN 13501-1 : 2010-01

No. of classification report:

K-3680/881/13-MPA BS

Client:Dr. Lietz Marketing Services GmbH
Wackenbergstr. 65 - 75
13156 Berlin**Prepared by:**Materialprüfanstalt für das Bauwesen
Beethovenstrasse 52
38106 Braunschweig**Notified Body No.:**

0761-CPD

Product:

Insulation board „Marmox Board 50“

Issue No.:1st Issue**Date of issue**

23/06/2015

Validity:

not restricted

This Classification Report consists of 5 pages including the cover sheet.

This Classification Report may not be circulated unless as a complete text without any alterations. Excerpts and abridged versions of this document are subject to approval in writing of MPA Braunschweig. Translations of this document that are made without the approval of the Testing House must bear the note "translation of the German original not examined by the Materials Testing Institute" in Braunschweig. The first sheet of this document and the page carrying the signatures bear the official stamp of MPA Braunschweig. Documents that do not carry a signature and the official stamp are invalid. The test material has been fully used.

1 Introduction

This Classification Report defines the classification assigned to the construction product in accordance with the procedures given in DIN EN 13501-1:2010-01.

2 Details of the classified product

2.1 General

The construction product "Marmox Board 50" belongs to the product type insulation board made of extruded polystyrene.

2.2 Description

The product with the product name „Marmox Board 50“ is a grey board that consists of extruded polystyrene core, which is covered on both sides with a cement-mortar coat and glass fibre mesh.

Both products are described in detail in the Test Report that is listed in section 3.1 below and on which this classification is based.

3 Test reports and results as the basis for the classification

3.1 Reports

Name of testing laboratory	Client	Report No.:	Test method
MPA Braunschweig	Dr. Lietz Marketing Services GmbH	3680/881/13 of 23/06/2015	DIN EN ISO 11925-2 : 2011-02

3.2 Results for the construction product „Marmox Board 50“ (Product applied on fibre-cement plates substrate and freely suspended)

Test method	Parameter	No. of tests	Continuous Parameters Mean values (m)	Compliance Parameters
DIN EN ISO 11925-2				
Surface flame attack 15 s Flame exposure	Fs ≤ 150 mm	6	-	compliance
Flaming droplets/particles	Ignition of filter paper	6	-	compliance
Edge flame attack 15 s Flame exposure	Fs ≤ 150 mm	18	-	compliance
Flaming droplets/particles	Ignition of filter paper	18	-	compliance

4 Classification and field of direct application

4.1 Reference of classification

This classification has been carried out in accordance with DIN EN 13501-1 : 2010-01.

4.2 Classification

The insulation board "Marmox Board 50" in relation to its fire behaviour is classified:

E

The additional classification in relation to smoke production is:

Classification not required

The additional classification in relation with burning droplets/particles is:

No classification class

The classification format for the reaction to fire of building products with exception of floorings and pipe insulations is:

Fire behaviour		Smoke production			Burning droplets	
E	-	-	-	-	-	-

Classification of reaction to fire: E

4.3 End-use application

The classification is valid for the following product parameter and application:

Product name and components	Parameter	Validity range of classification
„Marmox Board 50“	Type	XPS with top layer
	Thickness	50 mm ± 3 mm
	Weight per unit area	5,7 kg/m ² ± 0,3 kg/m ²
	Colour	Grey
Top layer	Type	Cement-mortar
	Thickness	1,4 mm ± 0,07 mm
	Halogen (Chlorine, Fluorine, Bromine related as Chlorine)	≤ 0,0125 Gew-%/kg TS
reinforcement	Typ	Fibreglass mesh
	Halogen (Chlorine, Fluorine, Bromine related as Chlorine)	≤0,0069 Weight-%/kg TS
Core	Thickness	47,0 mm ± 3 mm
	Density	35 kg/m ³ ± 2 kg/m ³
	Halogen (Chlorine, Fluorine, Bromine related as Chlorine)	≤ 0,0057 Gew-%/kg TS
Bonded	Distance to flat construction products	≤ 0 mm (Direct application) or with a distance ≥ 40 mm to construction products
	Substrate	Massive mineral products with density of ≥ 1200 kg/m ² and not less than the euro class A2-s1,d0

End-use application: The product is used as an inside insulation board

5 Notes

- 5.1 Made from other resins than used for the tests or bounded with other products or used with additional, other coatings, than the reaction to fire can be influenced that negative, that the given classification is no longer valid. In this cases the reaction to fire has to be tested separately.
- 5.2 This classification report does not represent type approval or certification of the product. and it does not replace the approval that may be required under the German building law (State Government Building Regulations).

This document is the translated version of Classification Report K-3680/881/13-MPA BS dated 23/06/2015. The legally binding text is the aforementioned German Classification Report.

i.A.
N. Stachowski B.Sc.
Official in charge

ORR Dr.-Ing. G. Blume
Head of Testinf Laboratory