

Report on the Classification of Fire Behaviour

No. 230003554-2
dated 6th December 2006

Client: FORBO Floorings
P.O. Box 13

1560 AA Krommenie/The Netherlands

Order: Classification of fire behaviour in accordance with DIN EN 13501-1

Order date: 11.09.2006

Identification of the building product to be classified:

“MARMOLEUM Acoustic” linoleum flooring

This report defines the classification of the above-mentioned building product in accordance with the process stated in DIN EN 13501-1.

This classification report is issued additionally to the classification report written in German language with the same report no. This classification report is valid only in combination with the classification report written in German language.

Classification reports may only be published or copied without permission from MPA NRW unaltered in form and content.

This classification report contains 3 pages.

1 Description of the Building Product

The products of the "MARMOLEUM Acoustic" group are linoleum floorings and have the following composition:

The seam is made from linoleum with a thickness of about 4 - 4.5mm and a mass per unit area of about 4 - 4.3kg/m².

The base consists of hessian.

2 Test reports and test results, which form the basis for classification

2.1 Test Reports

Name of Lab	Client	Test Report Number	Testing Method
MPA mNRW	FORBO Floorings	230003554-1	EN ISO 9239 - 1 EN ISO 11925 - 2 (15 s flame time)

2.2 Test Results

Testing Method	Parameter	Number of Tests	Test Results	
			Average	Standard met
DIN EN ISO 11925 15 s flame time	Flame distribution ≤ 150mm	6	--	Yes
DIN EN ISO 9239-1	Critical heat flow (kW/m ²)	3	6,8	
	Smoke (%xmin)	3	380	

4 Classification and Direct Area of Application

4.1 Reference

Classification was carried out in accordance with Sections 11 and 12.2 of the Standard DIN EN 13501-1: 2002.

4.2 Classification

The flooring inspected is classified in relation to its fire behaviour as: **C_{fl}**

The additional classification in relation to smoke development is: **s1**

As a result, the following results as classification of the fire behaviour of the flooring inspected:

Fire Behaviour		Smoke Development
C_{fl}	--	s1

which means **C_{fl} – s1**

4.3 Area of Application of the Product

The classification only applies to the building product described under Section 1.1 when used as flooring, laid horizontally - glued or unglued – on A1 or A2 Euro class bases in accordance with DIN EN 13501-1 with an apparent density of at least 1350kg/m³.

5 Restrictions

This classification report does not replace any type approval or product certification.

Erwitte, 6th December 2006

Head of Testing Centre

(Dipl.-Ing. Rademacher)



Official

W. Brune

(W.Brune)

Date of English translation: 16.01.2007