

**Classification report for roof coverings  
exposed to external fire**

**Resitrix<sup>®</sup> MB / EPS 040 DAA**

Order number: 0322-L-09/4 Ref.: ARH/GZ

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**Initials** :



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## 1 Introduction

By order of Phoenix Dichtungstechnik GmbH, BDA Keuringsinstituut B.V. has drawn a classification report with reference to a fire test on **Resitrix® MB** roof waterproofing sheets according to ENV 1187:2000, Test 2. This concerns the classification of one-layer system with a **Resitrix® MB** roof waterproofing sheet in combination with **EPS 040 DAA** in accordance with the procedures given in EN 13501-5:2005 - Fire classification of construction products and building elements, Part 5 – Classification using data from external fire exposure to roofs tests.

## 2 Description of the roof

From below upwards the test specimens have been built up according to the prescription of the principal, using the following products:

- substructure : 18 mm particle board;
- substrate : EPS 040 DAA, thickness 100 mm, density 23 kg.m<sup>-3</sup>;
- top layer : Resitrix® MB, thickness 3,1 mm.



The products used are fully described in the test report in support of this classification listed in table 1.

### 3 Test report and test results in support of this classification

Table 1

Name of laboratory	Name of principal	Number test report	Test method
BDA Keuringsinstituut B.V.	Phoenix Dichtungs-technik GmbH	0322-L-09/3 dated 2009.11.23	ENV 1187:2002, test 2

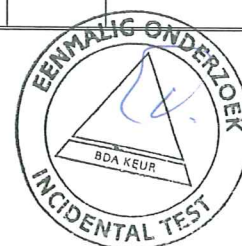
### 4 Results

#### Test conditions

- Test pitch : 30°
- Substrate : EPS 040 DAA, thickness 100 mm, density 23 kg.m<sup>-3</sup>

Table 2 – Substrate EPS

Parameter	Criteria [m]		Test results [mm]					Compliance
	Mean	Max	TS 1	TS 2	TS 3	Mean	Max	
Damaged length at 2 m.s <sup>-1</sup> – roof covering	≤ 0,550	≤ 0,800	444	430	410	428	444	yes
Damaged length at 2 m.s <sup>-1</sup> – substrate (insulation)	≤ 0,550	≤ 0,800	505	503	450	486	505	yes
Damaged length at 4 m.s <sup>-1</sup> – roof covering	≤ 0,550	≤ 0,800	415	440	430	428	440	yes
Damaged length at 4 m.s <sup>-1</sup> – substrate (insulation)	≤ 0,550	≤ 0,800	460	500	490	483	500	yes



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## 5 Classification and field of application

### Reference

This classification has been carried out in accordance with EN 13501-5:2005.

### Classification

The roof covering Resitrix<sup>®</sup> MB, thickness 3,1 mm, in combination with EPS 040 DAA, thickness 100 mm, density 23 kg.m<sup>-3</sup> in relation to its external fire performance is classified: **B<sub>ROOF</sub> (t2)**.

### Field of application

This classification is valid for the following conditions:

- all pitches;
- only for the product used on a substrate with composition identical to that used, having a density greater than or equal to 0,75 times the density used in the test.

## 6 Limitations

This document is not valid as type approval or as certificate of the product.

Gorinchem, 2009.11.23

The laboratory

A.R. Hameete



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Member

