

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

**Resitrix<sup>®</sup> MB / Hardrock II**

Order number: 0322-L-09/2    Ref.: ARH/GZ

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Pages : 4  
Tables : 2  
Annexes : -

Order number : 0322-L-09/2      Page: 2  
Date : 2009.11.23      of 4 pages

## 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 **Hardrock II** insulation 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 : MWR, Hardrock II, thickness 100 mm, density 145 kg.m<sup>-3</sup>;
- top layer : Resitrix<sup>®</sup> MB, thickness 3,1 mm.



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

Order number : 0322-L-09/2      Page: 3  
 Date : 2009.11.23      of 4 pages

### 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-09/1<br>dated 2009.11.23 | ENV 1187:2002, test 2 |

### 4 Results

#### Test conditions

- Test pitch : 30°
- Substrate : MWR, Hardrock II, thickness 100 mm, density 145 kg.m<sup>-3</sup>

Table 2 – Substrate MWR

| 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><br>– roof covering          | ≤ 0,550      | ≤ 0,800 | 508               | 490  | 490  | 496  | 508 | yes        |
| Damaged length at 2 m.s <sup>-1</sup><br>– substrate (insulation) | ≤ 0,550      | ≤ 0,800 | 448               | 465  | 490  | 468  | 490 | yes        |
| Damaged length at 4 m.s <sup>-1</sup><br>– roof covering          | ≤ 0,550      | ≤ 0,800 | 420               | 395  | 420  | 412  | 420 | yes        |
| Damaged length at 4 m.s <sup>-1</sup><br>– substrate (insulation) | ≤ 0,550      | ≤ 0,800 | 435               | 400  | 405  | 413  | 435 | yes        |



Order number : 0322-L-09/2      Page: 4  
Date : 2009.11.23      of 4 pages

## 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 MB, thickness 3,1 mm, in combination with MWR, Hardrock II, thickness 100 mm 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,  
The laboratory

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