

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

**PF 5000 SBS AD FR /**

**PF 3500 S/F / plywood board**

Order number: 0084-L-13/4 Ref.: KVZ/GZ

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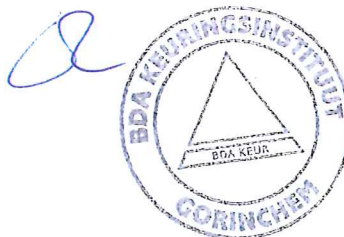
**Date of order** : 2012.12.12

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**Rapporteur** : K. van Zee

**Authorisation** : C.W. van der Meijden BSc  
deputy director

**Initials** : 



Pages : 4  
Tables : 2  
Annexes : -



## 1 Introduction

By order of Atab N.V., BDA Keuringsinstituut B.V. (NL-4202 MS/35) has drawn a classification report with reference to a fire test on modified bitumen roof waterproofing sheets according to ENV 1187:2000, Test 2. This concerns the classification of two-layer system with a **PF 5000 SBS AD FR** and a **PF 3500 S/F** roof waterproofing sheet in combination with Plywood board 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

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 sponsor | Number test report              | Test method           |
|----------------------------|-----------------|---------------------------------|-----------------------|
| BDA Keuringsinstituut B.V. | Atab N.V.       | 0084-L-13/3<br>dated 2013.03.19 | ENV 1187:2002, test 2 |



## 4 Results

### Test conditions

- Test pitch : 30°
- Substrate : Plywood with a density of 705 kg.m<sup>-3</sup>, thickness 17,5 mm

**Table 2 – Substrate Plywood**

| 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 | 210               | 215  | 230  | 218  | 230 | yes        |
| Damaged length at 2 m.s <sup>-1</sup><br>– substrate (insulation) | ≤ 0,550      | ≤ 0,800 | 0                 | 0    | 0    | 0    | 0   | yes        |
| Damaged length at 4 m.s <sup>-1</sup><br>– roof covering          | ≤ 0,550      | ≤ 0,800 | 195               | 210  | 200  | 202  | 210 | yes        |
| Damaged length at 4 m.s <sup>-1</sup><br>– substrate (insulation) | ≤ 0,550      | ≤ 0,800 | 0                 | 0    | 0    | 0    | 0   | yes        |



## 5 Classification and field of application

### Reference

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

### Classification

The roof covering a **PF 5000 SBS AD FR** with **PF 3500 S/F** in combination with Plywood with a density of  $705 \text{ kg.m}^{-3}$ , thickness 17,5 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 a substrate with composition identical to that used in the test, 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, 2013.03.19

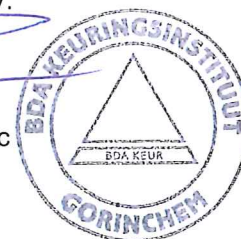
The laboratory

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Member

