Classification report for roofs/roof coverings exposed to external fire in accordance with BS EN 13501-5: 2005+A1:2009

Prepared for:
Flex-R Ltd
Unit 5 Central Park
Bellfield Road
High Wycombe
Bucks
HP13 5HG

6th December 2012
Classification report no 282048A Issue 2

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CLASSIFICATION REPORT FOR ROOFS/ROOF COVERINGS EXPOSED TO EXTERNAL FIRE

Sponsor: Flex-R Ltd, Unit 5 Central Park, Bellfield Road, High Wycombe, Bucks, HP13 5HG

Prepared by: BRE Global, BRE, Bucknalls Lane, Garston, Watford, WD25 9XX, England

Notified Body No: 1576

Product name: ClassicBond EPDM 1.5mm on a plywood deck

Classification report No.: 282048A

Issue number: 2

Date of issue: 6th December 2012

This classification report consists of eight pages and may only be used or reproduced in its entirety.
1 Introduction

This classification report defines the classification assigned to ClassicBond EPDM 1.5mm on a plywood deck in accordance with the procedures given in EN 13501-5:2005.

2 Product description

Details of the sample provided by the sponsor are given in Annex 1.

3 Test reports/extended application reports & test results in support of classification

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Name of sponsor</th>
<th>Test report ref. no.</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRE Global</td>
<td>Flex-R Ltd</td>
<td>282047A revision 1</td>
<td>CEN/TS 1187:2012, test 4</td>
</tr>
</tbody>
</table>
## Test results

### Test conditions:
- **Test pitch:** Flat
- **Deck:** As product description, Section 2
- **Supporting structure:** As product description, Section 2

### Preliminary test (stage 1)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Criteria</th>
<th>Test result</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Class $B_{ROOF}(t4)$</td>
<td>Class $C_{ROOF}(t4)$</td>
<td>Class $D_{ROOF}(t4)$</td>
</tr>
<tr>
<td>Burn time</td>
<td>&lt; 5 min</td>
<td>&lt; 5 min</td>
<td>≥5 min</td>
</tr>
<tr>
<td>Flame spread distance</td>
<td>&lt; 0,38m</td>
<td>&lt; 0,38m</td>
<td>&lt; 0,38m</td>
</tr>
<tr>
<td>Penetration</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### Penetration test (stage 2)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Criteria</th>
<th>Test results</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Class $B_{ROOF}(t4)$</td>
<td>Class $C_{ROOF}(t4)$</td>
<td>Class $D_{ROOF}(t4)$</td>
</tr>
<tr>
<td>Penetration time</td>
<td>≥ 60 min</td>
<td>&lt; 60 min</td>
<td>≤ 30 min</td>
</tr>
</tbody>
</table>

*If one or two of the specimens have not failed at one hour, a time of 60 min shall be used in calculating the mean time of penetration.*
5 Classification and field of application

5.1 Reference of classification
This classification has been carried out in accordance with Table 1 of EN 13501-5:2005+A1:2009.

5.2 Classification
The roof / roof covering ClassicBond EPDM 1.5mm on a plywood deck in relation to its external fire performance is classified:

B_{Roof(t^4)}

5.3 Field of application
This classification is valid for the following conditions:

Range of pitches

\[ 0^\circ \leq \text{pitch} \leq 10^\circ \]

Deck and supporting structure

The classification is valid only for the deck and supporting structure tested.

6 Limitations

This classification document does not represent type approval or certification of the product.

This report is Issue 2 of BRE report 282048A dated 25th September 2012. At the request of the client, a correction to the product description has been made in this report. BRE report 282048A Issue 1 dated 25th September 2012 has been withdrawn with effect from the date of this report.


The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons, it is recommended that the relevance of test and classification reports over five years old should be considered by the user. The laboratory that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test or classification to ensure that they are consistent with current practices, and if required may endorse the report.