



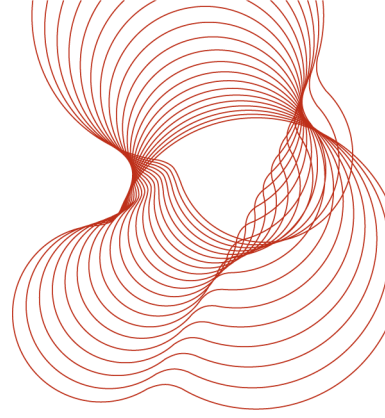
**CEN/TS 1187:2012, test 4
on ClassicBond EPDM
1.5mm on a plywood
deck**

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

6th December 2012
Test report number 282047A
revision 1



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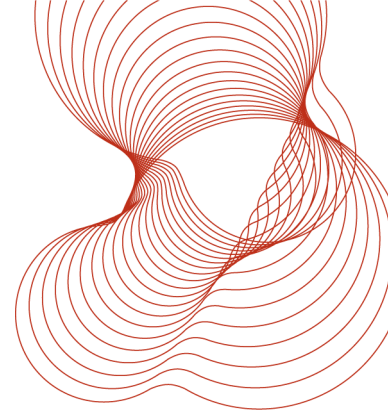
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1 Objective

To determine the capacity to resist penetration by fire of the sample specified in Section 2 as shown by the external fire exposure roof test CEN/TS 1187:2012, test 4¹.

2 Sample

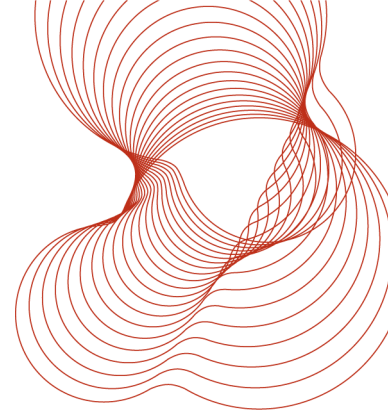
2.1 Traceability

The test samples were supplied by the test sponsor. BRE Global were not involved in the sample selection process and therefore cannot comment upon the relationship between samples supplied for test and the product supplied to market.

2.2 Description of sample and test format.

Unless otherwise stated all measurements are nominal.

Test Sponsor	Flex-R Ltd Unit 5 Central Park Bellfield Road High Wycombe Bucks HP13 5HG
Manufacturer of sample	Carlisle SynTec EPDM Membranes
Sample name/reference	ClassicBond EPDM 1.5mm on a plywood deck
Sample description (as provided by test sponsor/manufacturer)	Details of the sample provided by the sponsor are given in Annex 1
Description of sample (as received)	Dark grey membrane, 1.42mm thick , adhered to 18.2mm thick plywood
Sample receipt date	6 th August 2012
Test face	Membrane face
Test format	The test was carried out in the flat position
Date of test	3 rd and 5 th September 2012



3 Conditioning

The specimens were conditioned as required by the standard.

4 Results

4.1 The testing conditions were as required by the standard.

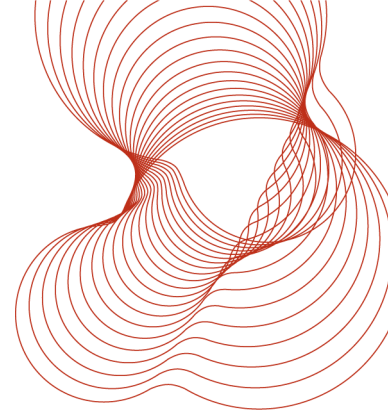
4.2 Preliminary ignition test

Specimen reference	Ambient	Joint	Flame spread mm	Flame duration min:s	Penetration min:s
E5187-7	20.1°C 64.1%RH	None	0	0	None

4.3 Penetration test

Specimen reference	Ambient	Joint	Penetration min:s	Observations
E5187-6	26.2°C 34.7%RH	None	None	Large bulge in membrane. Flaming ceased 24min:50s
E5187-5	23.4°C 37.6%RH	None	None	Large bulge in membrane. Flaming ceased 26min:50s
E5187-1	23.4°C 36.2%RH	Membrane	None	Flaming ceased 21min:45s

4.4 No dripping of material occurred from the underside of any specimen tested, nor was any mechanical failure, or development of holes, observed.



5 Validity

This report is revision 1 of BRE report 282047A dated 25th September 2012. At the request of the client, a correction to the product description has been made in this report. BRE report 282047A 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 reports over 5 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 to ensure that they are consistent with current practices, and if required may endorse the test report.

6 Reference

Test methods for external fire exposure to roofs. Test 4 – Two stage method incorporating burning brands, wind and supplementary radiant heat. CEN/TS 1187:2012, test 4. British Standards Institution, London, 2012.