

# BRE Global Classification Report

**Classification report for roofs/roof coverings exposed to external fire (flat/sloping) in accordance with EN 13501-5: 2016 on ClassicBond Pro EPDM, 18mm OSB3 deck**

**Prepared for:** SIG Trading Ltd T/a Flex-R

**Date:** Issue 1: 31 March 2023

**Report Number:** Additional Report P124776-1001

**Test date:** 11 August 2021

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## Prepared by

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Position Senior Technician

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## Authorised by

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Position Section Leader, Reaction to Fire

Date 31 March 2023

Signature

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# BRE Global

## EXTERNAL EXPOSURE TO FIRE CLASSIFICATION REPORT OF ClassicBond Pro EPDM, 18mm OSB3 deck

<b>Classification report No.:</b>	Additional Report P124776-1001
<b>Issue number:</b>	1
<b>Sponsor:</b>	SIG Trading Ltd T/a Flex-R
<b>Product name:</b>	classicBond Pro EPDM
<b>Prepared by:</b>	BRE Global Ltd., Bucknalls Lane, Garston, Watford, WD25 9XX, England.
<b>Approved Body Number</b>	0832
<b>Date of issue:</b>	31 March 2023

This classification report consists of 14 pages and may only be used or reproduced in its entirety.



## 1 Introduction

This classification report defines the classification (flat) assigned to roof/roof covering ClassicBond Pro EPDM in accordance with the procedures given in EN 13501-5: 2016.

## 2 Sample

### 2.1 Traceability

The test samples were supplied by the client. 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. The results apply to the sample as received.

### 2.2 Description of the roof/roof covering

Unless otherwise stated all measurements are nominal.

Test Sponsor	SIG Trading Ltd t/a Flex-R, Adsetts House, 16 Europa View, Sheffield Business Park, Sheffield, S9 1XH
Manufacturer of sample	Note 2
Sample name/reference	ClassicBond PRO EPDM
Place of manufacture	Note 2
Sample description (as provided by test sponsor/manufacturer)	EPDM membrane with fleece backing adhered to polyiso insulation A product definition as supplied by the test sponsor has been included in this report as Appendix A
Description of sample (as received by BRE Global)	<ol style="list-style-type: none"> <li>1. Dark grey rubber type membrane with white fleece type backing – adhered to rubber facing approx. 1.2mm thick. Combined thickness approx. 2.5mm.</li> <li>2. PIR type insulation with light grey facings. 150mm thick.</li> <li>3. Foil faced black plastic layer, less than 1mm thick (cannot measure)</li> <li>4. OSB base, 18mm thick</li> </ol> <p>Photographs of the sample are given in Appendix B.</p>
Sample receipt date	03 June 2021
Test face	ClassicBond Pro EDPM



Test format	The test was carried out in the flat position
Date of test	11 August 2021
Purchase order	74522
Test operator	P Potter

### 3 Reports in support of classification

Name of Laboratory	Name of sponsor	Test report ref. no.	Test method
BRE Global	SIG Trading Ltd T/a Flex-R	Additional Report P124776-1000	CEN/TS 1187: 2012 Test 4

### 4 Test results in support of classification

#### 4.1 Test conditions:

Test pitch: Flat  
Deck: As product description, Section 2  
Supporting structure: As product description, Section 2



### 4.2 Preliminary test (stage 1)

Parameter	Criteria				Test result	Compliance			
	Class B <sub>ROOF(t4)</sub>	Class C <sub>ROOF(t4)</sub>	Class D <sub>ROOF(t4)</sub>	Class E <sub>ROOF(t4)</sub>		Class B <sub>ROOF(t4)</sub>	Class C <sub>ROOF(t4)</sub>	Class D <sub>ROOF(t4)</sub>	Class E <sub>ROOF(t4)</sub>
Burn time	< 5 min	< 5 min	< 5 min	≥ 5 min	3:18 sec	Y	-	-	-
Flame spread distance	< 0,38m	< 0,38m	< 0,38m	No limit	0 mm	Y	-	-	-
Penetration	None	None	None	None	None	Y	-	-	-

### 4.3 Penetration test (stage 2)

Parameter	Criteria				Test results				Compliance			
	Class B <sub>ROOF(t4)</sub>	Class C <sub>ROOF(t4)</sub>	Class D <sub>ROOF(t4)</sub>	Class E <sub>ROOF(t4)</sub>	Specimen 1	Specimen 2	Specimen 3	Mean*	Class B <sub>ROOF(t4)</sub>	Class C <sub>ROOF(t4)</sub>	Class D <sub>ROOF(t4)</sub>	Class E <sub>ROOF(t4)</sub>
Penetration time	≥ 60 min	< 60 min ≥ 30 min	<30 min	< 30 min	≥ 60 min	≥ 60 min	≥ 60 min	60 min	Y	-	-	-

\* 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



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## 5 Classification and field of application

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### 5.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5: 2016.

### 5.2 Classification

The roof / roof covering ClassicBond Pro EDPM, as described in Section 2 above and Appendix A, in relation to its external fire performance is classified:

**B<sub>ROOF</sub>(t4)**

### 5.3 Field of application

This classification is valid for the following conditions:

Range of pitches	0° < pitch ≤ 10°
Substrate / deck	18 mm OSB3
Supporting structure	As tested, no variation allowed
Product configuration	As tested, no variation allowed
Product composition	As tested, no variation allowed
Product application method	As tested, no variation allowed
Product thickness	As tested, no variation allowed
Product colour	As tested, no variation allowed
Joints	As tested, no variation allowed.

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## 6 Limitations

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

The information in section 2.2 and Appendix A of this report, other than that indicated otherwise, has been supplied by the test sponsor and has not been independently verified by BRE Global. The validity of the results is conditional on the accuracy of that data.

This report is additional to that issued as P120586-1005 Issue 1 and dated 29 September 2021. The original report remains valid and is not replaced by the Additional Report. The product has not been retested and the Additional Report does not involve technical change or technical review of the original report. The original and new name of the product and the name of the company commercially responsible for the product are documented by the laboratory and maintained in laboratory records.

The manufacturer has made a declaration, which is held on file, that the product placed in the market place, named in section 2.2 of this report and produced at the manufacturing plant listed therein, is





exactly the same as the product that was tested on 11 August 2021. This has not been verified by BRE Global.

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## 7 Reference

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- 1 EN 13501-5: 2016 Fire classification of construction products and building elements – Part 5: Classification using data from external fire exposure to roofs tests. CEN, Avenue Marnix 17, B-1000, Brussels, Belgium. 2016.
- 2 CEN/TS 1187: 2012 Test methods for external fire exposure to roofs. Test 4 – Two stage method incorporating burning brands, wind and supplementary radiant heat. CEN, Avenue Marnix 17, B-1000, Brussels, Belgium. 2012.



**Appendix A Product description provided by the test sponsor**

**PRODUCT DEFINITION**

Distributor (Company name and address): SIG Trading Ltd t/a Flex-R Adsetts House, 16 Europa View, Sheffield Business Park, Sheffield, S9 1XH	
Product name of roof covering tested	ClassicBond PRO EPDM
General description of roofing product tested and build up	EPDM membrane with fleece backing adhered to polyiso insulation
Manufacturer of the roofing product (Company name and address)	Note 2
Place of manufacture	Note 2
Test specimens assembled by (if not by roof product manufacturer)	Flex-R
Thickness (overall depth of roof structure tested)	171mm
Mass per unit area (overall value for the roof structure tested)	18kg/m <sup>2</sup>
Flame retardant treatment added, or organic content limited during production (yes/no), if yes give details	Inorganic fire retardants in the EPDM, quantity not disclosed.
Harmonised EN product standard, and AVCP System No. if applicable	EN 13956 2+
<b>Please describe the roof build up, layer by layer, starting with the upper roof surface. Please add or remove rows as required.</b>	
Test face (Layer 1) - Name/reference - Manufacturer - Type - Thickness - Mass per unit area - Colour - Application method - Joint details (fixing method, overlap, etc) - Fire retardant (trade name, generic type, amount)	ClassicBond PRO EPD Note 2 EPDM membrane with fleece backing 1.2mm EPDM + Fleece 1.4kg/m <sup>2</sup> Dark grey/Black Adhered Double sided jointing tape and primer (HP-250 and SecurTape) Yes Amount not disclosed



Distributor (Company name and address): SIG Trading Ltd t/a Flex-R Adsetts House, 16 Europa View, Sheffield Business Park, Sheffield, S9 1XH	
Product name of roof covering tested	ClassicBond PRO EPDM
Layer 2 - Name/reference - Manufacturer - Type - Thickness - Mass per unit area - Colour - Application method - Joint details (fixing method, overlap, etc) - Fire retardant (trade name, generic type, amount)	FleeceBack Adhesive Note 2 Polyurethane Adhesive N/A 130gr/m <sup>2</sup> N/A 12mm beads at 280mm centres N/A No
Layer 3 - Name/reference - Manufacturer - Type - Thickness - Mass per unit area - Colour - Application method - Joint details (fixing method, overlap, etc) - Fire retardant (trade name, generic type, amount)	PIR Rigid Insulation Note 2 Note 2 150mm 4.5kg/m <sup>2</sup> Cream Mechanically fastened Butt joints Not known
Layer 4 - Name/reference - Manufacturer - Type - Thickness - Mass per unit area - Colour - Application method - Joint details (fixing method, overlap, etc) - Fire retardant (trade name, generic type, amount)	Foil Faced SA AVCL Note 2 Note 2 0.6mm 700g/m <sup>2</sup> Grey Self-adhesive Self-adhesive Not known
Layer 5 - Name/reference - Manufacturer - Type - Thickness - Mass per unit area - Colour - Application method - Joint details (fixing method, overlap, etc) - Fire retardant (trade name, generic type, amount)	Foil Faced SA AVCL Primer Note 2 Note 2 N/A 100gr/m <sup>2</sup> Black Brush/Roller N/A Not known



Distributor (Company name and address): SIG Trading Ltd t/a Flex-R Adsetts House, 16 Europa View, Sheffield Business Park, Sheffield, S9 1XH	
Product name of roof covering tested	ClassicBond PRO EPDM
Layer 6 - Name/reference (eg "deck" or - Manufacturer "substrate") - Type  - Thickness - Mass per unit area - Colour - Application method - Joint details (fixing method, overlap, etc) - Fire retardant (trade name, generic type, amount)	OSB3 Note 2 Softwood flakes/strands bonded with phenolic resins 18mm 11.2kg/m <sup>2</sup> Yellow/cream Mechanically fastened Tongue & Groove  Not known

Note 2: At the request of the test sponsor this commercially sensitive information which forms part of the definition of the product tested/classified has been withheld from the report and is held on a confidential client file by BRE Global.



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## Appendix B Photographs of a test specimen

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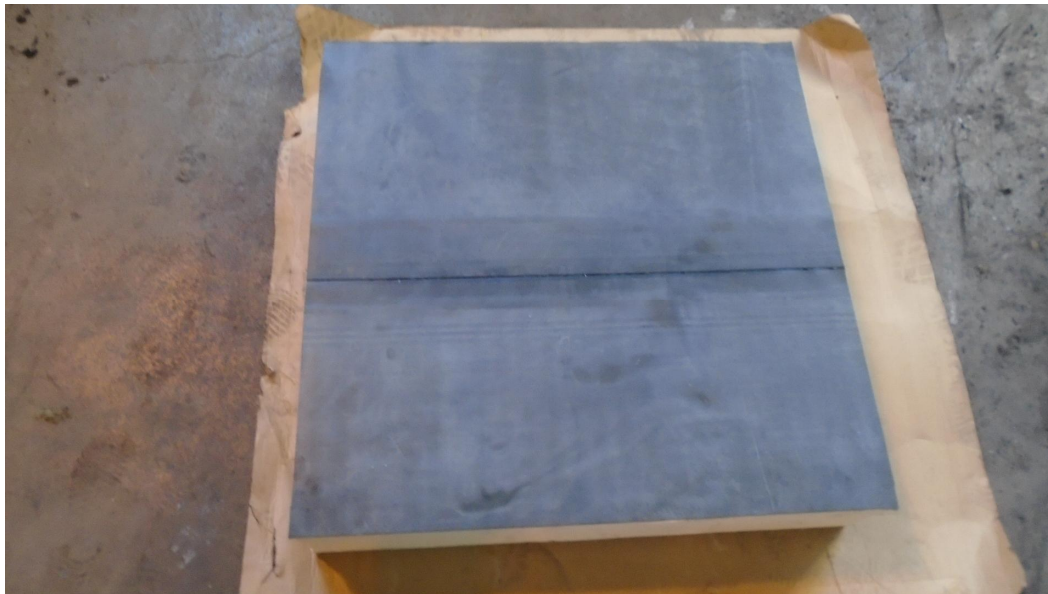


Figure 1. Test face



Figure 2. Edge



Figure 3. Back - OSB