

## Flexiflo UK

37B New Cavendish Street  
London W1G 8JR

Tel: 0870 8900 326 Fax: 0870 8900 327  
e-mail: [technical@flexiflo.co.uk](mailto:technical@flexiflo.co.uk)  
website: [www.flexiflo.co.uk](http://www.flexiflo.co.uk)



Agrément Certificate  
**05/4244**  
Product Sheet 1

## FLEXIFLO WATERPROOFING SYSTEMS

### FLEXIFLO GRP ROOF WATERPROOFING SYSTEM

#### PRODUCT SCOPE AND SUMMARY OF CERTIFICATE

This Certificate relates to the Flexiflo GRP Roof Waterproofing System, a glassfibre reinforced polyester resin, cold applied on site by the hand lay-up process for use as a waterproofing system on flat or pitched roofs.

#### AGRÉMENT CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



#### KEY FACTORS ASSESSED

**Weathertightness** — the system will resist the passage of moisture into the building (see section 5).

**Properties in relation to fire** — tests indicate that the system will enable a roof to be unrestricted under Building Regulations (see section 6).

**Resistance to wind uplift** — the system will resist the effects of any wind suction likely to occur in practice (see section 7).

**Resistance to foot traffic** — the system will accept the limited foot traffic and loads associated with installation and maintenance of the system without damage (see section 8).

**Durability** — a Flexiflo system will have a durability in excess of 15 years. A GRP laminate formed under satisfactory conditions can maintain its integrity for 30 years (see section 10).

The BBA has awarded this Agrément Certificate to the company named above for the system described herein. This system has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Simon Wroe  
Head of Approvals — Materials

Greg Cooper  
Chief Executive

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Originally certified on 17 June 2005

*The BBA is a UKAS accredited certification body — Number 1113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at [www.bbacerts.co.uk](http://www.bbacerts.co.uk)*

*Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.*

British Board of Agrément  
Bucknalls Lane  
Garston, Watford  
Herts WD25 9BA

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tel: 01923 665300  
fax: 01923 665301  
e-mail: [mail@bba.star.co.uk](mailto:mail@bba.star.co.uk)  
website: [www.bbacerts.co.uk](http://www.bbacerts.co.uk)

# Regulations

In the opinion of the BBA, the Flexiflo GRP Roof Waterproofing System, if used in accordance with the provisions of this Certificate, will meet or contribute to meeting the relevant requirements of the following Building Regulations:



## The Building Regulations 2000 (as amended) (England and Wales)

Requirement:	<b>B4(2)</b>	External fire spread
Comment:		Test data to BS 476-3 : 1958 indicate that on suitable substructures the use of the system will enable a roof to be unrestricted under this Requirement. See sections 6.1 and 6.2 of this Certificate.
Requirement:	<b>C2(b)</b>	Resistance to moisture
Comment:		Tests for water resistance on the system, including joints, indicate that the system meets this Requirement. See section 5.1 of this Certificate.
Requirement:	<b>Regulation 7</b>	Materials and workmanship
Comment:		The system is acceptable. See sections 10.1 and 10.2 and the <i>Installation</i> part of this Certificate.



## The Building (Scotland) Regulations 2004 (as amended)

Regulation:	<b>8(1)(2)</b>	<b>Fitness and durability of materials and workmanship</b>
Comment:		The system can contribute to a construction meeting this Standard. See sections 9, 10.1 and 10.2 and the <i>Installation</i> part of this Certificate.
Regulation:	<b>9</b>	<b>Building standards – construction</b>
Standard:	<b>2.8</b>	Spread from neighbouring buildings
Comment:		Test data to BS 476-3 : 1958 indicate that the system when applied to a non-combustible substrate, can be regarded as having low vulnerability under clause 2.8.1 <sup>(1)(2)</sup> of this Standard. See sections 6.1 and 6.2 of this Certificate.
Standard:	<b>3.10</b>	Precipitation
Comment:		Tests for water resistance of the system indicate that the use of the system will enable a roof to satisfy the requirements of this Standard, with reference to clauses 3.10.1 <sup>(1)(2)</sup> and 3.10.7 <sup>(1)(2)</sup> . See section 5.1 of this Certificate.
Regulation:	<b>12</b>	<b>Building standards – conversions</b>
Comment:		All comments given for this system under Regulation 9 also apply to this Regulation, with reference to clause 0.12 <sup>(1)(2)</sup> and Schedule 6 <sup>(1)(2)</sup> . (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).



## The Building Regulations (Northern Ireland) 2000 (as amended)

Regulation:	<b>B2</b>	Fitness of materials and workmanship
Comment:		The system is acceptable. See sections 10.1 and 10.2 and the <i>Installation</i> part of this Certificate.
Regulation:	<b>B3(2)</b>	Suitability of certain materials
Comment:		The system is acceptable. See section 9 of this Certificate.
Regulation:	<b>C4(b)</b>	Resistance to ground moisture and weather
Comment:		Tests for water resistance of the system, including joints, indicate that the use of the system will enable a roof to satisfy the requirements of this Regulation. See section 5.1 of this Certificate.
Regulation:	<b>E5(b)</b>	External fire spread
Comment:		Test data to BS 476-3 : 1958 indicate that on suitable substructures the use of the system will enable a roof to be unrestricted under the requirements of this Regulation. See sections 6.1 and 6.2 of this Certificate.

## Construction (Design and Management) Regulations 2007

## Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

See sections: 2 *Delivery and site handling* (2.2, 2.6 and 2.7), 12 *Precautions* (12.1 and 12.2).

# Non-regulatory Information

## NHBC Standards 2008

NHBC accepts the use of the Flexiflo GRP Roof Waterproofing System, when installed and used in accordance with this Certificate, as meeting Technical Requirement R3 in relation to *NHBC Standards Chapter 7.1 Flat Roofs and balconies*.

## Zurich Building Guarantee Technical Manual 2007

In the opinion of the BBA, the Flexiflo GRP Roof Waterproofing System, when installed and used in accordance with this Certificate, satisfies the requirements of the *Zurich Building Guarantee Technical Manual, Section 4 Superstructure, Sub-section Flat roofs*.

# General

This Certificate relates to the Flexiflo GRP Roof Waterproofing System, a glassfibre reinforced polyester resin, cold applied on site by the hand lay-up process.

The system is for use on flat or pitched roofs with limited access, for new work or for repairing or maintaining the waterproofing layer of existing structurally sound roofs.

The system should only be installed by contractors who have been trained and approved/registered by the Certificate holder. The Registered Contractors' Scheme records will be audited by the BBA as part of its programme of surveillance of the Certificate.

## Technical Specification

### 1 Description

1.1 The Flexiflo GRP Roof Waterproofing System consists of a glassfibre reinforced polyester resin, cold applied on site by the hand lay-up process.

1.2 The system comprises:

- Flexiflo Basecoat — an unsaturated polyester resin in styrene monomer, for use as the basecoat resin. The basecoat resin is cured by the addition of a liquid catalyst (eg methyl ethyl ketone peroxide). The resin has a low styrene emission rate and contains an additive to protect the basecoat from dirt, moisture and excessive monomer loss prior to the application of the topcoat
- Flexiflo Topcoat — an unsaturated polyester resin system, similar to the basecoat. The topcoat resin is available either pre-pigmented or clear for use in conjunction with a polyester pigmented paste
- Glass mat — an emulsion-bound chopped strand glassfibre matting conforming to BS EN 14118 : 2003 for use as a reinforcement for the basecoat. The mat is supplied in two weights depending on the application and designers' specifications. For general laminating of limited access roofing areas, 450 gm<sup>-2</sup> is used. For heavy duty applications, eg fire escapes, valley gutters and maintenance accessways, 600 gm<sup>-2</sup> is specified
- Liquid Catalyst — methyl ethyl ketone peroxide available in two reactivities as specified in the Certificate holder's *Technical Reference Manual*
- Polyester Pigmented Paste — for use in conjunction with clear Flexiflo Topcoat
- Trims A, B, C and D as preformed details
- Trim A (Drip Fascia) — preformed GRP drip fascia
- Trim A (Deep Drip Fascia) — preformed GRP deep drip fascia
- Trim B (Raised Edge) — preformed GRP edge detail
- Trim B (Raised Edge) Deep Fascia — preformed GRP edge detail
- Trim C (Simulated Lead Wall Cover Flashing) — preformed GRP flashing detail
- Trim D (Fillet) — preformed GRP fillet detail.

1.3 The nominal characteristics of Flexiflo Basecoat, Flexiflo Topcoat and free-film are given in Table 1.

	Flexiflo Basecoat resin	Flexiflo Topcoat resin
Specific gravity (gm <sup>-2</sup> )	1.12 ± 0.01	1.22 ± 0.01
Viscosity (d Pas)	4.25 ± 0.25	12.5 ± 2.5
Hardness	42.5	37.5
Free-film thickness (mm)	2.3	—
Free-film density (gcm <sup>-3</sup> )	1.38	—

1.4 Quality control checks are carried out on raw materials.

### 2 Delivery and site handling

2.1 The Flexiflo GRP Roof Waterproofing System is available only through a nationwide network of specialist contractors trained and monitored by the Certificate holder.

2.2 Flexiflo Basecoat and Flexiflo Topcoat are supplied in 20 kg quantities in blue and white steel drums, respectively. Both containers bear a production code. The catalyst is supplied in 5 kg plastic containers and the polyester pigment in 2 kg factory-sealed containers.

2.3 Each container bears the name of Flexiflo UK, product name, Flexiflo, and the BBA identification mark incorporating the number of this Certificate.

2.4 The glassfibre reinforcement is supplied polythene wrapped in cardboard boxes. The mat must be kept dry at all times prior to installation.

2.5 The catalyst and colouring paste should be stored in sealed containers, under dry conditions, in temperatures of between 5°C and 25°C and away from direct sunlight until ready for application.

2.6 The resins are flammable, with a flashpoint below 32°C, and must be stored in accordance with the *Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972*. The shelf-life of unopened Flexiflo resins factory-sealed in steel containers is up to six months and, in opened and resealed in containers, is three months when stored between 5°C and 25°C.

2.7 The pre-installation resins and catalyst are classified 'harmful' and 'irritant', the catalyst is also an 'organic peroxide' under *The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP3)*. All contractors must make an assessment of the hazards faced by employees (or others) during application of the products. Hazchem information is available from the Certificate holder.

## Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on the Flexiflo GRP Roof Waterproofing System.

## Design Considerations

### 3 Use

3.1 The Flexiflo GRP Roof Waterproofing System is satisfactory for use as a waterproofing layer on flat or pitched limited access roofs.

3.2 Installation is carried out only by specialist contractors registered by the Certificate holder, who provide the necessary technical advice and support. It is the responsibility of contractors to ensure that all materials used comply with the Certificate holder's specifications and that all site practices are in full accord with the instructions of that company.

3.3 Limited access roofs are defined for the purpose of this Certificate as those roofs subjected only to pedestrian traffic for maintenance of the roof covering and cleaning of gutters, etc. Where traffic in excess of this is envisaged, special precautions such as additional protection to Flexiflo must be taken.

3.4 Flat roofs are defined for the purpose of this Certificate as those roofs having a minimum finished fall of 1:80. Pitched roofs are defined as those having falls in excess of 1:6.

3.5 When designing new flat roofs, twice the minimum finished fall should be assumed, unless a detailed analysis of the roof is available, including overall and local deflection, direction of falls, etc. When upgrading existing flat roofs, care should be taken to minimise ponding water.

3.6 Flexiflo should be applied only to plywood substrates, 18 mm thick, bond class WBP, and of the correct durability class for the situation of use, as described in BRE Digest 323 *Selecting wood-based panel products*, the relevant requirements of BS 6229 : 2003 or where appropriate complying with *NHBC Standards 2008*, Chapter 7.1 or *Zurich Building Guarantee Technical Manual 2007*, Section 4 *Superstructure*, Sub-section *Flat roofs*, pages 268–270. Other substrates are outside the scope of this Certificate.

### 4 Practicability of installation

Installation of the Flexiflo GRP Roof Waterproofing System should only be carried out by specialist roofing contractors who have been trained and approved/registered by the Certificate holder.

### 5 Weathertightness



5.1 Test data confirm that the system will adequately resist the passage of moisture to the inside of the building and so meet or comply with the relevant requirements of the national Building Regulations:

**England and Wales** — Approved Document C, Requirement C2(b), Section 6

**Scotland** — Mandatory Standard 3.10, clauses 3.10.1<sup>(1)(2)</sup> and 3.10.7<sup>(1)(2)</sup>

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).

**Northern Ireland** — Regulation C4(b).

5.2 The system is impervious to water and will give a weathertight roofing capable of accepting minor movement without damage (see section 1.5, Table 3 for *Physical properties*).

### 6 Properties in relation to fire



6.1 When tested in accordance with BS 476-3 : 1958, a system comprising Flexiflo applied to an 18 mm thick woodboard substrate, achieved an EXT.F.AA rating.

6.2 The designation of other specifications, eg when used on combustible substrates, should be confirmed by:

**England and Wales** — Test or assessment in accordance with Approved Document B, Appendix A, Clause 1

**Scotland** — Test to conform to Mandatory Standard 2.8, clause 2.8.1<sup>(1)(2)</sup>

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).

**Northern Ireland** — Test or assessment by a UKAS accredited laboratory, or an independent consultant with appropriate experience.

## 7 Resistance to wind uplift

The system has adequate resistance to the effects of wind suction likely to occur in practice, provided the plywood substrate is adequately fixed (see section 11.3).

## 8 Resistance to foot traffic

8.1 The system can accept, without damage, the limited foot traffic and light concentrated loads associated with installation and maintenance operations. However, reasonable care is required to avoid damage by sharp objects or concentrated loads. Extra care should be taken when walking across the roof if surface water is present.

8.2 A non-slip system is available for use on verandas, terraces or walkways on flat roofs.

## 9 Maintenance



The system should be subjected to regular annual inspections and roof drains kept clear as is good practice with all roofing membranes.

## 10 Durability



10.1 A GRP laminate constructed in accordance with the installation guide and formed in satisfactory weather conditions can maintain its integrity for 30 years.

10.2 The results of accelerated ageing tests and performance in use confirm that satisfactory retention of physical properties is achieved. All available evidence indicates that a Flexiflo laminate when constructed in accordance with this Certificate will have a life expectancy in excess of 15 years provided there is no abnormal movement of the structure and the roof is subject to the normal regular inspections and maintenance.

# Installation

## 11 General

11.1 Application of the Flexiflo GRP Roof Waterproofing System is carried out only by specialist roofing contractors registered by the Certificate holder. Application must be carried out in strict accordance with the relevant clauses of the Certificate holder's *Technical Reference Manual* and this Certificate.

11.2 Registration of contractors by the Certificate holder require that on completion of every project a Quality Statement is completed and retained, confirming that materials and installation comply with the Certificate holder's specification. This will contain site details including weather conditions, humidity, shape and size of area to which the system is to be applied, resin batch numbers and specification details on the quality of the other components.

11.3 The plywood substrate to which the product is to be applied must be properly prepared in accordance with *Technical Reference Manual*. On timber supports 65 mm corrosion-resistant nails or wood-screws should be used.

11.4 Adhesion to the plywood will depend on its condition and cleanliness. The board should be kept dry and clean prior to installation. The plywood may require a sealing coat of catalysed Flexiflo Basecoat to prevent moisture ingress into the plywood prior to installation.

11.5 The Flexiflo GRP Roof Waterproofing System is a two-coat application of a basecoat, in which is embedded a glassfibre mat, and a pigmented topcoat.

11.6 Catalyst is added on site to the resin as detailed in Table 2. Polyester pigment is added to the clear Flexiflo Topcoat at the rate of 2 kg per 20 kg of resin. It is important that all on-site mixing is thorough to ensure full dispersion of both the catalyst and pigment.

11.7 All points subject to additional stress, ie plywood joints, integral gutters, upstands or penetrations through the plywood, should be reinforced using a 70 mm wide strip of 450 gm<sup>-2</sup> glassfibre reinforcement thoroughly wetted out with Flexiflo Basecoat resin.

**Table 2 Catalyst addition rates**

Temperature (°C)	Catalyst addition rate <sup>(1)</sup>	
	(%)	ml per litre of resin
Up to 8	3–4	30–40
Up to 15	2–3	20–30
Up to 20	1–2	10–20
Above 20	1 (min)	10

(1) Under no circumstances may the minimum and maximum addition rates be exceeded. The more catalyst, the shorter the curing time of the resin at a given temperature.

11.8 Depending on the configuration, roofs above 50 m<sup>2</sup> should have provision for the expansion and contraction met in service. The Certificate holder’s advice should be sought in these instances.

11.9 Where joints between new and old roofs exist, the Certificate holder’s advice should be sought regarding provision of expansion joints.

## 12 Precautions

12.1 Vapours from the individual components of the Flexiflo system, some of which contain styrene monomer, may cause sensitisation and irritation to the respiratory system, eyes and skin. The system should be used only in areas with sufficient ventilation to prevent the build-up of vapour. Contact with the skin, eyes and clothes should be avoided. The Certificate holder’s instructions and the relevant safety regulations for working procedures must be adhered to at all times.

12.2 The individual components must not be allowed to enter the drainage system.

## 13 Procedure

13.1 Full cure of Flexiflo resins is dependent upon ambient air temperature and is achieved by the correct addition of catalyst as given in Table 2. Flexiflo should not be applied where, due to prevailing weather conditions and prior to curing: the air or substrate temperature is outside the range of 5°C to 25°C, the relative humidity would cause wetting of the uncured resins, ie precipitation or surface condensation.

13.2 The Flexiflo Basecoat is prepared on site by mixing Flexiflo Basecoat with the catalyst in the correct proportions immediately prior to application. On adequate mixing, the resin will have a slight brown hue which will deepen progressively as curing takes place. The catalysed resin has a working time of approximately 10 to 20 minutes depending on temperature. The catalysed Flexiflo Basecoat resin is applied to the plywood timber decking at a rate as set out in the *Technical Reference Manual*, using a synthetic lambswool roller.

13.3 The glassfibre reinforcement is embedded into the initial layer of basecoat by application of a second layer of basecoat resin, using a synthetic lambswool roller to ensure the glassfibre mat is thoroughly wetted out with the resin. A metal ribbed consolidation roller is then used to ensure that the laminate is properly formed before allowing to cure.

13.4 All joints in the glassfibre mat should have a 50 mm overlap which is consolidated with a ribbed roller.

13.5 The laminate should be topcoated only when the resin has sufficiently cured to allow personnel to gain access without damaging the laminate. The laminate, when sufficiently cured offers a tack-free surface providing protection against contamination.

13.6 The laminate should be inspected carefully prior to the application of the topcoat, to ensure uniformity of resin distribution, and that no pin-holes exist. All irregularities should be removed with coarse sandpaper and re-coated.

13.7 The Flexiflo Topcoat is prepared on site by fully mixing in the correct proportion of the colour pigmented paste and, immediately prior to application, the required amount of catalyst. It must be ensured during mixing that the catalyst is uniformly distributed throughout the resin. The catalysed topcoat resin has a working time of 10 to 20 minutes depending on temperature. When thoroughly mixed the topcoat is applied at a coverage rate of 0.50 kgm<sup>-2</sup> using a fresh synthetic lambswool roller.

13.8 The Flexiflo Topcoat should be checked for uniformity of colour and any signs of pin-holing. Sub-standard areas should be thoroughly abraded before the application of a further thin layer of Flexiflo Topcoat, care being taken to apply the new topcoat to the prepared area only.

## 14 Repairs

In the event of damage, repairs should be carried out only by specialist contractors registered by the Certificate holder.

# Technical Investigations

## 15 Tests

Samples of the Flexiflo GRP Roof Waterproofing System and ancillary products were supplied and prepared by the Certificate holder for the purpose of testing. The results of these tests, which show typical results for the materials, are summarised in Tables 3 and 4.

Table 3 Physical properties

Test (units)	Mean results				Method <sup>(1)</sup>
	Free-film	Trims			
		B	C	D	
Density (gcm <sup>-3</sup> )	1.38	1.53	1.52	1.50	ISO 1183
Glass to resin ratio % resin content	79	62	68	68	BS 2782-10.1002
Thickness (mm)	—	1.29	1.05	1.04	Micrometer
Hardness	21				BS 2782-10.1001
Weight per unit area (gcm <sup>-2</sup> )	—	1.88	1.39	1.46	Direct measurement
Water vapour transmission (gm <sup>-2</sup> day <sup>-1</sup> )	0.23	—	—	—	BS 3177 (25°C/75% RH)
Water vapour resistance (MNsg <sup>-1</sup> )	89.2	—	—	—	BS 3177 (25°C/75% RH)
Tensile strength (Nmm width) unaged	140.9				BS 2782-3.320E
% loss in cross-breaking strength					BS 2782-10.1005
2 hours water boil	-13	—	—	—	(speed 5 mm/mm <sup>-1</sup> , span 42 mm)
30 days water soak	-18	—	—	—	
7 days heat aged at 70°C	+11	—	—	—	
Resistance to water pressure	satisfactory	—	—	—	MOAT 27 : 5.1.4.2

— = not tested

(1) The test documents are detailed in the *Bibliography*. Numbers in the table refer to sections/parts of the various documents.

Table 4 Performance related tests

Test (units)	Mean result		Method <sup>(1)</sup>
	Flexiflo applied on plywood		
Static indentation	L <sub>4</sub>		MOAT 27 : 5.1.9
Dynamic indentation	L <sub>4</sub>		MOAT 27 : 5.1.10
Tensile bond strength (Nmm <sup>-2</sup> ) unaged	0.27		<i>ad hoc</i>
28 days heat aged at 70°C	0.24		
90 days heat aged at 70°C	0.24		
Resistance to thermal shock	satisfactory		MOAT 27 : 5.1.5
Coefficient of friction	dry	wet	T1/10
normal surface	0.76	0.20	
nonslip finish	0.86	0.66	

(1) The test documents are detailed in the *Bibliography*. Numbers in the tables refer to sections/parts of the various documents.

## 16 Investigations

16.1 The manufacturing process was examined, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

16.2 Visits were made to sites in progress and established sites to assess the practicability of installation and performance in use.

16.3 A user survey was carried out to assess the service performance of the product.

16.4 Data on fire performance to BS 476-3 : 1958 were examined.

## Bibliography

BS 476-3 : 1958 *Fire tests on building materials and structures — External fire exposure roof test*

BS 2782-3.320A to 320F : 1976 *Methods of testing plastics — Mechanical properties — Tensile strength, elongation and elastic modulus*

BS 2782-10.1001 : 1977 *Methods of testing plastics — Glass reinforced plastics — Measurement of hardness by means of a Barcol impressor*

BS 2782-10.1002 : 1977 *Methods of testing plastics — Glass reinforced plastics — Determination of loss on ignition*

BS 2782-10.1005 : 1977 *Methods of testing plastics — Glass reinforced plastics — Determination of flexural properties — Three point method*

BS 3177 : 1959 *Method for determining the permeability to water vapour of flexible sheet materials used for packaging*

BS 6229 : 2003 *Flat roofs with continuously supported coverings — Code of practice*

BS EN 14118-1 : 2003 *Reinforcement — Specifications for textile glass mats (chopped strand and continuous filament mats)— Designation*

MOAT No 27 : 1983 *General Directive for the Assessment of Roof Waterproofing Systems*

ISO 1183 : 1970 *Methods for determining the density and relative density (specific gravity) of plastics excluding cellular plastics*

## Conditions of Certification

### 17 Conditions

17.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is granted only to the company, firm or person named on the front page — no other company, firm or person may hold or claim any entitlement to this Certificate
- is valid only within the UK
- has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English law.

17.2 Publications and documents referred to in this Certificate are those that the BBA deems to be relevant at the date of issue or re-issue of this Certificate and include any: Act of Parliament; Statutory Instrument; Directive; Regulation; British, European or International Standard; Code of Practice; manufacturers' instructions; or any other publication or document similar or related to the aforementioned.

17.3 This Certificate will remain valid for an unlimited period provided that the product/system and the manufacture and/or fabrication including all related and relevant processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

17.4 In granting this Certificate, the BBA is not responsible for:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- individual installations of the product/system, including the nature, design, methods and workmanship of or related to the installation
- the actual works in which the product/system is installed, used and maintained, including the nature, design, methods and workmanship of such works.

17.5 Any information relating to the manufacture, supply, installation, use and maintenance of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used and maintained. It does not purport in any way to restate the requirements of the Health & Safety at Work etc Act 1974, or of any other statutory, common law or other duty which may exist at the date of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care. In granting this Certificate, the BBA does not accept responsibility to any person or body for any loss or damage, including personal injury, arising as a direct or indirect result of the manufacture, supply, installation, use and maintenance of this product/system.