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**Agrément Certificate**  
**21/5905**

Product Sheet 2 Issue 2

**VISQUEEN WATERSTOPS**

**VISQUEEN IGW5 AND IGW10 WATERSTOPS**

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Visqueen IGW5 and IGW10 Waterstops, flexible, hydrophilic waterstops for use at construction joints and penetrations in underground reinforced and waterproof concrete structures.

(1) Hereinafter referred to as 'Certificate'.

**The assessment includes**

**Product factors:**

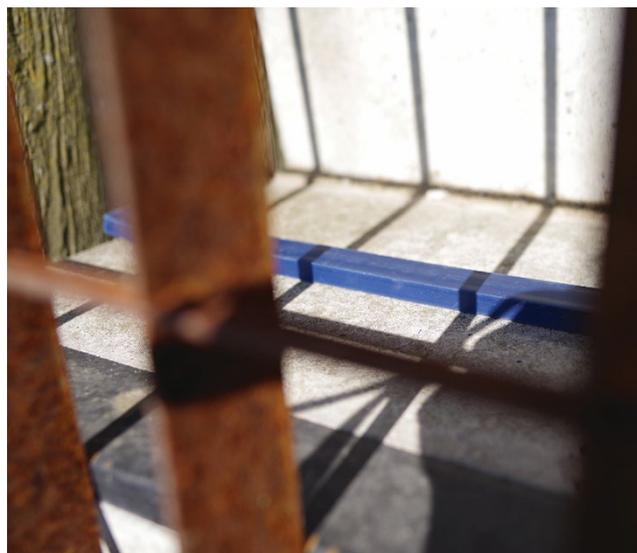
- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

**Process factors:**

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- maintenance and repair

**Ongoing contractual Scheme elements†:**

- regular assessment of production
- formal 3-yearly review



**KEY FACTORS ASSESSED**

- Section 1. Mechanical resistance and stability
- Section 2. Safety in case of fire
- Section 3. Hygiene, health and the environment
- Section 4. Safety and accessibility in use
- Section 5. Protection against noise
- Section 6. Energy economy and heat retention
- Section 7. Sustainable use of natural resources
- Section 8. Durability

The BBA has awarded this Certificate to the company named above for the product described herein. This product 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

Date of Second issue: 1 October 2025

Originally certified on 25 April 2022

Hardy Giesler  
Chief Executive Officer

*This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.*

*The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).*

*Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.*

*The Certificate should be read in full as it may be misleading to read clauses in isolation.*

*Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.*

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## SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

### Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that Visqueen IGW5 and IGW10 Waterstops, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



#### The Building Regulations 2010 (England and Wales) (as amended)

<b>Requirement:</b>	<b>C2(a)</b>	<b>Resistance to moisture</b>
Comment:		The product provides an effective barrier to water under hydrostatic pressure. See section 3 of this Certificate.
<b>Regulation:</b>	<b>7(1)</b>	<b>Materials and workmanship</b>
Comment:		The product is acceptable. See sections 8 and 9 of this Certificate.



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

<b>Regulation:</b>	<b>8(1)</b>	<b>Fitness and durability of materials and workmanship</b>
Comment:		The product is acceptable. See sections 8 and 9 of this Certificate.
<b>Regulation:</b>	<b>9</b>	<b>Building standards – construction</b>
Standard:	3.4	Moisture from the ground
Comment:		The product is an effective barrier to water under hydrostatic pressure, with reference to clauses 3.4.1 <sup>(1)(2)</sup> , 3.4.5 <sup>(1)(2)</sup> and 3.4.7 <sup>(1)(2)</sup> of this Standard. See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The product can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting at least a bronze level of sustainability as defined in this Standard.
<b>Regulation:</b>	<b>12</b>	<b>Building standards – conversion</b>
Comment:		All comments given for the product under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 <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) 2012 (as amended)

<b>Regulation:</b>	<b>23(1)(a)(i)</b>	<b>Fitness of materials and workmanship</b>
Comment:	<b>(iii)(b)(i)</b>	The product is acceptable. See sections 8 and 9 of this Certificate.
<b>Regulation:</b>	<b>28(a)</b>	<b>Resistance to moisture and weather</b>
Comment:		The product is an effective barrier to water under hydrostatic pressure. See section 3 of this Certificate.

## Additional Information

### NHBC Standards 2025

In the opinion of the BBA, Visqueen IGW5 and IGW10 Waterstops, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapter 5.4 *Waterproofing of basements and other below-ground structures* (requiring proprietary waterproofing materials to comply with Technical Requirement R3).

Unless it can be demonstrated that the water table is permanently below the underside of the slab, the product must be used within a Type B<sup>(1)</sup> waterproofing protection system, in combination with either a Type A<sup>(1)</sup> or C<sup>(1)</sup> waterproofing protection where Grade 3<sup>(1)</sup> protection is required and the below-ground wall retains more than 600 mm (measured from the top of the retained ground to the lowest finished floor level).

The opinion of the BBA does not amount to any endorsement or approval by NHBC and does not in any way guarantee that NHBC will approve such product / system as compliant with the NHBC Technical Requirements and Standards.

(1) As defined in BS 8102 : 2022.

## Fulfilment of Requirements

The BBA has judged Visqueen IGW5 and IGW10 Waterstops to be satisfactory for use as described in this Certificate. The product has been assessed as flexible, hydrophilic waterstops for use at construction joints and penetrations in underground reinforced and waterproof concrete structures.

## ASSESSMENT

### Product description and intended use

The Certificate holder provided the following description for the product under assessment. Visqueen IGW5 and IGW10 Waterstops is a range of flexible, hydrophilic waterstops based on synthetic rubber.

The product has the nominal characteristics given in Table 1.

Grade	Dimensions (mm)	Colours
Standard	20 x 5	Blue
Saltwater Superswell (high salinity conditions)	20 x 10	

### Ancillary Items

The following ancillary items are essential to use with the product and have been assessed with the product:

- Visqueen IGW Sealing UFO / Rings – a hydrophilic ring, used around formwork spacers
- Visqueen IGW Sealing Plug – a plug with a hydrophilic head for sealing tie rod holes
- Visqueen IGW Pipe Strap – a hydrophilic strap used to seal around pipe penetrations
- Visqueen Waterstop Adhesive – a modified silicone (MS)-based adhesive used to secure Visqueen IGW5 and IGW10 Waterstops to the concrete substrate. It is supplied in the colour grey.

The above items are available in the dimensions and colours described in Table 2.

**Table 2** *Visqueen IGW5 and IGW10 Waterstops ancillary items*

Product	Grade	Dimensions (mm)	Colours
Visqueen IGW Sealing UFO	Standard	6, 10, 12, 17, 24, 31, 39 (nominal internal diameter)	Blue
Visqueen IGW Sealing Plug		17, 20, 22, 24, 26, 32, 34	
Visqueen IGW Sealing Rings		20 x 2 24	
Visqueen IGW Pipe Strap		Available for use with pipes with external diameter between 70 and 90 110 and 125 160 and 200	Orange

### Applications

The product is satisfactory for use as a Type B (structurally integral) protection (as defined in BS 8102 : 2022) to waterproof construction joints and penetrations in underground waterproof reinforced concrete structures.

The product has not been assessed for use in movement joints.

## **Product assessment – key factors**

The product was assessed for the following key factors, and the outcome of the assessment is shown below. Conclusions relating to the Building Regulations apply to the whole of the UK unless otherwise stated.

### **1 Mechanical resistance and stability**

Data were assessed for the following characteristics.

#### 1.1 Adhesion

1.1.1 The result of an adhesion test is given in Table 3.

**Table 3** *Adhesion*

Product assessed	Assessment method	Requirement	Result
Visqueen IGW Waterstop	Tensile bond strength to a BBA test method	Value achieved	0.64 N·mm <sup>-2</sup>
Visqueen Waterstop Adhesive	24 hours curing time Concrete substrate		

1.1.2 On the basis of data assessed, the product has satisfactory adhesion.

1.1.3 Substrates must be dry and free from contamination, which could affect the adhesion of the product.

### **2 Safety in case of fire**

Not applicable.

### **3 Hygiene, health and the environment**

Data were assessed for the following characteristics.

#### 3.1 Weathertightness

3.1.1 Results of weathertightness tests are given in Table 4.

**Table 4 Weathertightness**

Product assessed	Assessment method	Requirement	Result
Visqueen IGW Waterstop	Unrestrained swelling and recovery to an MPA test method Neutral, alkaline & acidic solutions	No significant detrimental effect	Pass
Visqueen IGW Waterstop Superswell grade	Unrestrained swelling and recovery to an MPA test method 10% saline solution	No significant detrimental effect	Pass
Visqueen IGW Waterstop Saltwater grade	Unrestrained swelling and recovery to an MPA test method 1% and 4% saline solutions	No significant detrimental effect	Pass
Visqueen IGW Waterstop	Confined swell pressure to an MPA test method	Value achieved	1.3 N·mm <sup>-2</sup> achieved after 45 days
Visqueen IGW Waterstop	Unrestrained swelling to a BBA test method 5°C 23°C	Value achieved	387.57 % 591.79 %
Visqueen IGW Waterstop	Resistance to hydrostatic pressure to an MPA In-house test method Exposure to 5 bar of water pressure for 14 days Test cycle carried out three times	No water penetration	Pass
Visqueen Sealing UFO Visqueen IGW Sealing Plug	Resistance to hydrostatic pressure to an MPA In-house test method Exposure to 5 bar of water pressure for 7 days	No water penetration	Pass
Visqueen IGW Pipe Strap	Resistance to hydrostatic pressure to an MPA In-house test method Exposure to 2.5 bar of water pressure for 7 days	No water penetration	Pass

3.1.2 The unconfined Visqueen IGW5 and IGW10 Waterstops standard grade will expand by approximately 500% by weight in neutral pH distilled water, 300% by weight in alkaline conditions and 200% by weight in acidic conditions (pH 4.5).

3.1.3 The unconfined Visqueen IGW5 and IGW10 Waterstops Saltwater grade will expand by approximately 300% by weight in 1% saline water and by 200% by weight in 4% saline water.

3.1.4 The unconfined Visqueen IGW5 and IGW10 Waterstops Superswell grade will expand by approximately 150% by weight in 10% saline water.

3.1.5 The expansion of Visqueen IGW5 and IGW10 Waterstops in an alkaline solution of calcium hydroxide with a pH up to 12.0 and an acidic solution of sulphuric acid with a pH down to 4.5, will be similar to that in neutral water and will not affect the product's ability to form an effective seal.

3.1.6 The product will shrink on drying but will re-hydrate on wetting without detriment to its ability to swell.

3.1.7 On the basis of data assessed, the product forms an effective barrier to water under pressure from the ground.

3.1.8 The ability of the product to expand and form an effective seal can be adversely affected by the groundwater chemistry, eg saline conditions, and the product has not been assessed for use under conditions other than those detailed in Table 4. The Certificate holder must be consulted for advice on specific applications, service conditions and groundwater chemistry, but such advice is outside the scope of this Certificate.

3.1.9 The product will develop significant pressure when confined within a concrete structure and must be covered by at least 80 mm of concrete from each edge to reduce the risk of damaging the concrete.

3.1.10 An appropriate safety factor must be applied to the maximum water pressures given in Table 4 and the use of additional waterproof protection must be considered, depending on the specific risks associated with any particular structure.

## 4 Safety and accessibility in use

Not applicable.

## 5 Protection against noise

Not applicable.

## 6 Energy economy and heat retention

Not applicable.

## 7 Sustainable use of natural resources

Not applicable.

## 8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in the product were assessed.

### 8.2 Service life

8.2.1 Under normal service conditions, the product will have a life equivalent to the structure in which it is incorporated, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

8.2.2 The durability of the product may be affected if it is dislodged or damaged during or following installation; therefore, care must be taken to ensure that it remains in position and is not dislodged when concrete is poured over it, or damaged during subsequent actions, eg vibration.

## PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

## 9 Design, installation, workmanship and maintenance

### 9.1 Design

9.1.1 The product swells on contact with water and must be fully confined within the concrete structure to form an effective seal.

### 9.2 Installation

9.2.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.

9.2.2 Installation must be carried out in accordance with this Certificate and the Certificate holder's instructions.

9.2.3 Installation must be carried out in accordance with the relevant requirements of BS 8102 : 2022.

9.2.4 To avoid premature swelling, the product must be protected from contact with water until enclosed in the structure, and must not be placed during rain or when rain is forecast.

9.2.5 The product is intended for use on a sound and well compacted concrete substrate. The substrate must be:

- clean and free from surface contamination
- dry
- at a temperature between +5 and +35°C
- free of dust, dirt and other debris (if present, it must be removed using a stiff brush and/or suitable mechanical means)
- smooth. Freshly placed concrete can be smoothed with a wooden batten to form a shallow rebate along which the product can be placed.

#### **Visqueen IGW5 and IGW10 Waterstops**

9.2.6 A 10 mm bead of Visqueen Waterstop Adhesive is applied to the prepared concrete face to receive the Visqueen IGW5 or IGW10 Waterstop strip.

9.2.7 Visqueen IGW5 or IGW10 Waterstop is unrolled and placed onto the concrete surface to sit centrally between the inner and outer rows of reinforcing bars and pressed firmly into the adhesive bead until adhesive exudes on either side of the strip.

9.2.8 A minimum of 80 mm concrete coverage must be ensured around all edges.

9.2.9 When jointing, roll ends must overlap by  $\geq 20$  mm and be pressed together firmly.

#### **Sealing UFO**

9.2.10 Visqueen IGW Sealing UFO is placed centrally onto the middle of the formwork spacer.

9.2.11 Care must be taken when pouring concrete for the Visqueen IGW Sealing UFO to stay in the middle section of pipe. If required, Visqueen Waterstop Adhesive can be applied for additional security.

9.2.12 A minimum of 80 mm concrete coverage must be ensured around the ring.

#### **Sealing Plug**

9.2.13 Visqueen IGW Sealing Plug is hammered firmly in place after removing the tie bar.

9.2.14 Ensure the plug is not damaged during installation. If damage occurs, replace the plug.

9.2.15 Use a rubber mallet with a striking surface at least as large as the plug's surface.

9.2.16 Strike the plug evenly across its entire surface to prevent damage and ensure proper placement.

9.2.17 Make sure the plug is fully inserted, centred and positioned straight in the hole.

9.2.18 Once inserted, the plug cannot be removed. If it needs to be removed (eg to re-centre or straighten) it must not be reused and must be replaced with a new plug.

#### **Sealing Pipe Strap**

9.2.19 Visqueen IGW Pipe Strap is secured around the plastic pipe in accordance with the Certificate holder's instructions.

9.2.20 Care must be taken to stretch the strap evenly across its entire length

9.2.21 Care must be taken when pouring concrete for the strap not to be dislodged. If required Visqueen Waterstop Adhesive can be used for additional security.

9.2.22 A minimum of 80 mm concrete coverage must be ensured around all edges.

## Enclosure

9.2.23 Prior to enclosing Visqueen IGW5 or IGW10 Waterstop, the placed product must be inspected for damage and premature swelling. Damaged and/or swollen product must be replaced at this stage.

9.2.24 Concrete is then poured to enclose the product, compacting well around the waterstop but taking particular care not to dislodge or damage the strip during the process.

### 9.3 Workmanship

Practicability of installation was assessed by the BBA, on the basis of the Certificate holder's information and a site visit to witness an installation in progress. To achieve the performance described in this Certificate, installation of Visqueen IGW5 and IGW10 Waterstops must be carried out by competent contractors experienced with this type of product.

### 9.4 Maintenance and repair

As the product is confined within the structure and has suitable durability, maintenance is neither possible nor required.

## 10 Manufacture

10.1 The production processes for the product have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

† 10.2 The BBA has undertaken to review the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

## 11 Delivery and site handling

11.1 The Certificate holder stated that the product is delivered to site in packaging bearing the Certificate holder's name and traceability information.

11.2 Visqueen IGW5 and IGW10 Waterstops are supplied in rolls of 5, 10 or 15 m lengths which are packaged in cartons, each containing between 2 and 9 rolls and with a gross weight of between approximately 7 and 23 kg depending on the cross-section size of the Visqueen IGW5 and IGW10 Waterstops. Cartons can be supplied on pallets containing a maximum of 60 cartons.

11.3 Visqueen IGW Sealing UFO is supplied in bags of 100 pcs which are packed in cartons, each containing 7 bags and with a gross weight of approximately 13 kg. Cartons can be supplied on pallets containing a maximum of 18 cartons.

11.4 Visqueen IGW Sealing Plug is supplied in bags of 100 pcs which are packed in cartons, each containing 10 bags and with a gross weight of approximately 13 kg. Cartons can be supplied on pallets containing a maximum of 18 cartons.

11.5 Visqueen IGW Pipe Strap is supplied in bags of 5 pcs which are packed in cartons, each containing 36 bags and with a gross weight of approximately 15 kg. Cartons can be supplied on pallets containing a maximum of 18 cartons.

11.6 Visqueen Waterstop Adhesive is supplied in 290 ml cartridges, packed in cardboard boxes with 12 cartridges per box.

11.7 Delivery and site handing must be performed in accordance with the Certificate holder's instructions and this Certificate, including:

11.7.1 The product must be stored under cover, clear of the ground and protected from direct sunlight, moisture, frost and other sources of contamination, at a temperature between 5 and 30°C.

Supporting information in this Annex is relevant to the product but has not formed part of the material assessed for the Certificate.

### Construction (Design and Management) Regulations 2015

### Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

### CLP Regulations

The Certificate holder has taken the responsibility of classifying and labelling the product under the *GB CLP Regulation* and *CLP Regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s).

## Bibliography

BS 8102 : 2022 *Protection of below ground structures against water ingress – Code of practice*

## Conditions of Certificate

### Conditions

1 This Certificate:

- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- 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
- and any matter arising out of or in connection with it or its subject matter (including non-contractual disputes or claims) is governed by and construed in accordance with the law of England and Wales.
- the courts of England and Wales shall have exclusive jurisdiction to settle any matter arising out of or in connection with this Certificate or its subject matter (including non-contractual disputes or claims).

2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product and its manufacture and/or fabrication, including all related and relevant parts and 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.

4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product or any other product
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product
- actual installations of the product, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to UKCA marking and CE marking.

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue 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.

#### British Board of Agrément

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