

**PT/418/0917 – AS (September 2017)**  
**Assessment Schedule for the Drain Block Bag™ as supplied by Steve Vick International**



Independent certification of your products & services

## 1 SCOPE

This schedule specifies characteristics for the Drain Block Bag™ as manufactured by Steve Vick International (SVI) to permanently block a redundant sewer lateral or drain. It is applicable to clay, concrete, metal and plastic pipes for sizes of for 100mm (4") and 150mm (6") pipes. Other dimensions can be made to special order.

## 2. PRODUCT DESCRIPTION

### 2.1 Introduction

The Drain Block Bag™ uses expanding polyurethane resin foam with a delayed gel formula, which is mixed in a sealed sachet. The sachet is mixed and then placed in a zippered Drain Block Bag™ and pushed into the drain to the required position using drain rods. As the resin foam expands it forms a solid plug within the host pipe approximately 300mm in length.

The Drain Block Bag™ has been designed for pipes of nominal diameter; 100mm and 150mm. It has been designed to function in the all drainage pipe materials, clay (including salt glazed), concrete and plastics. The product can be deployed from the access point to a range of 20 metres.

The product can be installed into the host pipe either with or without man-entry into the sewer system and with both wet and dry internal surfaces.

### 2.2 Relevant Standards

There are no product standards for long-term pipe blocking devices. However, there are several standards that are generally relevant to sewers and specifically relevant to sewer sealing and repairs which have been taken into account.

The following performance requirements have been identified to determine "fitness for purpose" of the product:

- Leak tightness: The Civil Engineering Specification for the Water Industry – CESWI 7<sup>th</sup> edition <sup>(1)</sup> and Drain Repair Book -4<sup>th</sup> edition <sup>(2)</sup>
- Resistance to movement of the installed foam bag in the host pipe
- Odour: CESWI Test for Non-Pressure Pipelines which is consistent with the provisions of BS 8005 Part 1<sup>(3)</sup>.
- Deterioration: Ability of the Drain Block Bag™ to not deteriorate in performance when in contact with typical drainage and sewer effluent.
- Installation: Ability to pass through typical drainage and sewer pipe configurations and defects and not damage the host pipe.

### 2.3 Approval History

The Drain Block Bag™ first received WRC Approved certification in September 2007 reference certification PT/267/0907.

It was reapproved in September 2012 reference certification PT333/0912.

The Drain Block Bag™ is being re-approved reference certification PT/418/0217.

## 3 TESTING AND REQUIREMENTS

### 3.1 Type Testing

Leak tightness: The Drain Block Bag™ was tested in accordance with the Drain Repair Book<sup>(2)</sup> External long-term pressure test.

Resistance to movement: The External long-term pressure test was used to determine any movement of the Drain

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Block Bag™ over the 6 month test period. A pull test on the samples was also undertaken as proof of resistance to movement.

Odour: The 'Air Test for Non-Pressure Pipelines' detailed in CESWI was undertaken. This is consistent with the provisions of BS 8005 Part 1<sup>(3)</sup>. The device shall be accepted if the air pressure remains above 75mm head after a period of 5 minutes.

Deterioration: Test pieces shall be immersed in sewage for 6 months and examined for visible degradation.

### 3.2 Manufacture

To ensure the Quality and Performance of the Drain Block Bag™ the manufacturing process shall include appropriate systems for:

- Verification that materials received are to specification.
- Handling and storage of all component materials and finished items.
- Records of the Drain Block Bag™ manufacture.
- Inspection and maintenance of the Drain Block Bag.
- Fabrication and quality of workmanship.

The manufacture of the Drain Block Bag™ and related Quality Control procedures shall comply with requirements to ensure the stated performance of the product is reliably achieved.

### 3.3 Installation Audit

When installed in accordance with the installation instructions<sup>(4)</sup> the installation shall be practicable and suitable for

conditions that could reasonably be expected on site.

### 3.4 Client Feedback

WRC has reviewed client feedback from installers, asset owners, agents to validate that the product has delivered the performance claimed.

## 4 APPROVAL

The Drain Block Bag™ has been audited and successfully met all the requirements stated within this assessment schedule.

Signed:

A handwritten signature in black ink, appearing to read 'M. Hopkins'.

## 5 REFERENCES

1. The Civil Engineering Specification for the Water Industry, 7<sup>th</sup> edition, 2011.
2. Drain Repair Book, 4<sup>th</sup> edition, 2017.
3. BS 8005 Part 1 1987
4. Drain Block Bag™ installation instructions.