

PT/498/0322 (March 2022)

**Assessment Schedule for NORHAM
Camstopper® Pro range (200 to 520mm
n.d.) as manufactured by NORHAM and
NORHAM Plastics Ltd**



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1. SCOPE

This schedule specifies the requirements for the Camstopper® Pro range of drain stoppers, as manufactured by NORHAM (France) and assembled by NORHAM Plastics Ltd (UK). The devices are designed for the temporary stopping of flows from domestic drains and small adoptable sewers made of clay and or plastic in sizes between 200 mm to 520 mm.

2. PRODUCT DESCRIPTION

2.1 Introduction

The Camstopper® Pro comprises an aluminium base and top plate, a steel rotary lever and 'T' bar, with a polyamide anti-friction washer between the base plate and the lever. An EPDM rubber seal is fitted between the periphery of the base and top plate.

The Camstopper® Pro is placed within the host pipe. The lever arm is rotated, compressing the EPDM seal between the base plate and the top plate, expanding the permitter to create a seal within the pipe. The 'T' bar prevents the stopper from moving out of vertical alignment.

2.2 Applicable standards

The following standards are applicable to this product:

- BS EN 1610:2015⁽¹⁾
- BS EN 752:2017⁽²⁾
- BS EN 681:1996⁽³⁾

2.3 Approval History

The Camstopper® Pro range was originally awarded WRc Approved™ certification in 2012.

- PT/327/0312
- PT/407/0317

3. REQUIREMENTS AND TESTING

3.1 General

There are no product standards for temporary drain stoppers. BS EN 1610:2015 and BS EN 752:2017 are the primary standards for the design and construction of gravity sewerage and drainage pipes. This assessment schedule has taken into account the requirements of these standards, together with those of the BS EN 295:2013⁽¹⁾, BS EN 1401:2019⁽¹⁾ and the performance claims of the product.

The Camstopper® Pro range will be assessed on the diameters specified below, which are considered representative of the product diameter range:

- Pro 300W (280mm to 310mm)
- Pro 400W (375mm to 400mm)

3.2 Materials and components

The EPDM seal shall satisfy the requirements of BS EN 681:1996.

There are no product standards for Aluminium fittings in drains and sewers.

3.3 Type Testing

The Camstopper® Pro shall resist structural damage if dropped from a maximum height of 5 metres to a concrete surface.

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The leak tightness of the Camstopper® Pro shall maintain a pressure of 0.5 bar (for diameters < 350mm) or 0.3 bar (for diameters ≥ 350mm) for a period of 30 minutes without movement or failure when installed in rigid and flexible pipes and when tested in accordance with BS EN 1610:2015.

Tests shall be carried out on the new condition surfaces of each pipe material for which the product is designed.

3.4 Manufacture

To ensure the quality and performance of the Camstopper® Pro range, the manufacturing process shall include appropriate systems for the:

- Specification of component materials;
- Verification component materials received are to specification;
- Handling and storage of all component materials and finished units;
- Detailed drawing / schedule for manufacture
- Manufacture / assembly of Camstopper® Pro range; and
- Fabrication and quality control of workmanship.

The production of the Camstopper® Pro range and related quality control procedures⁽⁷⁾ shall comply with requirements to ensure the stated performance of the product is reliably achieved.

3.5 Installation

When in good working condition installed in accordance with the installation documentation⁽⁸⁾, the Camstopper® Pro

shall be reasonably expected to perform as described.

4. APPROVAL

The Camstopper® Pro has been audited and have successfully met all requirements stated in this assessment schedule

A handwritten signature in black ink, appearing to read 'E. McArthur'.

Signed:

Valid until: 2nd March 2027

5. REFERENCES

1. BS EN 1610 Construction and testing of drains and sewers: 2015
2. BS EN 752 Drain and sewer systems outside buildings – Sewer system management: 2017.
3. BS EN 681-2 Elastomeric seals. Material requirements for pipe joint seals used in water and drainage applications. Thermoplastic elastomers: 2000.
4. BS EN 295-1 Vitrified clay pipe systems for drains and sewers – Requirements for pipes, fittings and joints: 2013.
5. BS EN 1401-1 Plastic piping systems for non-pressure underground drainage and sewerage. Unplasticized poly(vinyl chloride) (PVC – U). Specifications for pipes, fittings and the system.
6. NORHAM – NORHAM Plastics Quality Control Manual.
7. NORHAM – NORHAM Plastics Installation instructions.