

PT/570/1225-AS (December 2025)
Assessment Schedule for the ICON
Pushfit Couplings system as
manufactured by Fernco Group



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1. SCOPE

This schedule specifies the requirements for the ICON Pushfit Couplings system as manufactured by Fernco Group.

It is applicable to straight and adaptor connections to DN100 and DN150 pipes of any pipe material.

2. PRODUCT DESCRIPTION

2.1 Introduction

The system is an internal pipe coupling and comprises of an ABS plastic central pipe with two rubber edges either side with external EPDM seals. The adaptor has a tapered edge to ensure a tight fit.

The system is designed to couple DN100 and DN150 pipes together. This can be either straight connection or adaptive connections. The full list of the six ICON Pushfit couplings is shown below.

Table 1 ICON Pushfit Couplings product codes

Product Code	Internal Pipe Diameter (mm)	Purpose
IC95P	93-98	Connecting two DN100 pipes.
IC95-100P	Pipe 1: 93-98 Pipe 2: 99-104.5	Connecting two DN100 pipes.
IC100P	99-104.5	Connecting two DN100 pipes.

IC150P	148-153	Connecting DN100 to DN150 pipes
IC95-150P	Pipe 1: 93-98 Pipe 2: 148-153	Connecting DN100 to DN150 pipes
IC100-150P	Pipe 1: 99-104.5 Pipe 2: 148-153	Connecting DN100 to DN150 pipes

2.2 Applicable Standards

No applicable British, European or International Standards have been identified that are applicable to this product.

2.3 Approval History

The ICON Pushfit Couplings system was originally awarded WRc Approved® certification in December 2020:

- PT/477/1220

This is the first re-approval of the system.

3. REQUIREMENTS AND TESTING

3.1 Materials and components

Elastomeric components shall comply with the requirements of BS EN 681-1:1996⁽¹⁾.

Adhesives for elastomeric seals shall comply with the manufacturer's specification.

ABS plastic shall comply with the manufacturer's specification.

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3.2 Type Testing

At present there is no specific British or European testing standard for internally fitted integral pipe couplings. WRC have therefore identified the following performance requirements.

Impedance of Flow

The results in Fernco testing report⁽²⁾ confirm that the ICON Pushfit Couplings meets three tests for the determination of an impedance of the flow were undertaken, all adapted from Section 3.5 and 3.7 of the WIS 'Fine to Flush' specification WIS 4-02-06⁽³⁾:

1. 'Limited Solid Transport Distance' (LSTD) test
2. "Flush Sequence" test
3. "Static" test

The results in Fernco testing report confirm that the ICON Pushfit Couplings meets the requirements set out in WIS 4-02-06.

Leak tightness

When tested in accordance with BS EN 295-1:2013⁽⁴⁾ the ICON Pushfit Couplings shall meet the requirements of clause 6.2.1, 6.2.2 & 6.2.3.

Angular deflection

When tested in accordance with BS EN 295-1:2013 the ICON Pushfit Couplings shall meet the requirements of clause 6.2.2.

Resistance to shear

When tested in accordance with BS EN 295-1:2013 Appendix G the ICON Pushfit

Couplings shall meet the requirements of clause 6.2.3.

Jetting resistance

When tested in accordance with WIS 4-35-01⁽⁵⁾ Appendix B, the ICON Pushfit Couplings shall meet the requirements of clause 3.3.

3.3 Manufacture

To ensure the quality and performance of the ICON Pushfit Couplings, 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 the ICON Pushfit Couplings > and
- Fabrication and quality control of workmanship.

The production of the ICON Pushfit Couplings and related quality control procedures shall comply with requirements to ensure the stated performance of the product is reliably achieved.

3.4 Installation

When installed in accordance with the installation documentation⁽⁶⁾, the ICON Pushfit Couplings shall be reasonably expected to perform as described.

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4. APPROVAL

The ICON Pushfit Couplings have been audited and successfully met all the requirements stated within this assessment schedule

Signed:

A handwritten signature in black ink, appearing to be 'G.L.' with a horizontal line extending to the right.

Valid until 20th December 2030

6. ICON Pushfit Couplings
datasheet, reference V013FEB24.

5. REFERENCES

1. BS EN 681-1: Elastomeric seals. Materials requirements for pipe joint seals used in water and drainage applications. 1996.
2. ICON Testing with WRc, Flexseal (internal). 2020
3. WIS 4-02-06 Specification for a Testing Methodology to Determine Whether a Product is Suitable for Disposal Through a Drain or Sewer System. 2019
4. BS EN 295-1: Vitrified clay pipe systems for drains and sewers Part 1: Requirements for pipes, fittings and joints. 2013.
5. WIS 4-35-01 Specification for Thermoplastics Structured Wall Pipes – Supplementary Test Requirements. 2008