

## 1. SCOPE

This schedule specifies the requirements for the Twinwall Pipe as manufactured by Condron Concrete Limited for drainage and gravity sewerage.

## 2. PRODUCT DESCRIPTION

### 2.1 Introduction

The Condron Concrete Twinwall Pipe is a high durability, large diameter plastic pipe available in 450mm, 600mm, 750mm and 900mm diameters and 6m lengths, incorporating integrated sockets or couplers.

This approval is intended to cover the unperforated 600mm pipe manufactured from polyethylene (PE) and the unperforated 450mm pipe manufactured from polypropylene (PP). Perforated Twinwall pipes are not included in this approval.

### 2.2 Applicable standards

The following standards are applicable to this product:

- BS EN 13476-1:2018(1) - Plastics piping systems for non-pressure underground drainage and sewerage - Structured-wall piping systems of unplasticized poly (vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) <sup>(1)</sup>

### 2.3 Approval History

This is the first WRC Approved certification for the Twinwall Pipe.

## 3. REQUIREMENTS AND TESTING

### 3.1 Type Testing

The Condron Concrete Twinwall Pipe shall comply with the requirements of standard BS EN 13476-1: 2018 listed in Section 2.2. The relevant clauses that have been identified are shown in table 1.

**Table 1 Clauses of BS EN 13476-1**

Clause Number(s)	Description
5	Designation of wall construction
6.1	Appearance
6.2	Colour
7	Geometrical Characteristics
8.1, 8.2	Type of fittings
9	Performance
10	Presentation and Marking

Additionally, it shall comply with the test requirements detailed below.

The tests listed in WIS 4-35-01<sup>(2)</sup> shall be carried out on samples, as detailed below:

- Appendix A Resistance to Internal Puncture.
- Appendix B Resistance to High Pressure Water Jetting.
- Appendix C Longitudinal Bending

**PT/490/0921 (September 2021)**

**Assessment Schedule for Twinwall Pipe  
as manufactured by Condron Concrete  
Limited**



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Any integrated elastomeric seals shall meet the requirements of BS EN 681-1 (1996)<sup>(3)</sup>

**3.2 Manufacture**

To ensure the quality and performance of the Condron Concrete Twinwall Pipe the manufacturing process shall include appropriate Quality Control procedures and systems for:

- Specification of component materials;
- Verification component materials are to specification;
- Detailed drawings for the pipe and fitting products;
- Handling and storage of all component materials;
- Production of pipe lengths;
- Fabrication of sections and quality of workmanship;
- Training records

The production of Condron Concrete Twinwall Pipes and related Quality Control procedures shall comply with requirements to ensure the stated performance of the product is reliably achieved.

**3.3 Installation**

When installed in accordance with the installation documentation<sup>(4)</sup>, the Twinwall Pipes shall be reasonably expected to perform as described.

**4. APPROVAL**

The Condron Concrete Twinwall Pipes have been audited and successfully met all the requirements stated within this assessment schedule.

Signed:

*KA Adams*

Valid until 24 September 2026

**5. REFERENCES**

1. BS EN 13476-1 2018: Plastics piping systems for non-pressure underground drainage and sewerage - Structured-wall piping systems of Unplasticised poly (vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 1: General requirements and performance characteristics. Includes a National Annex with additional guidance for UK users.
2. WIS 4-35-01: Water Industry Specification for thermoplastics structured wall pipes – supplementary test requirements, October 2008, Issue 2.
3. BS EN 681-1: Elastomeric seals. Material requirements for pipe joint seals used in water and drainage applications. Vulcanized rubber 1996.
4. Condron Concrete Twinwall Road Drainage System Installation. Available at Condron Concrete website.